



PROMOTING
COLLABORATION
ACROSS
DISCIPLINES



10TH ANNUAL STUDENT RESEARCH SYMPOSIUM

Friday, April 15, 2016 | University Hall

PRESENTED BY

Office of the Provost | College of the Arts | College of Education and Human Services
College of Humanities and Social Sciences | College of Science and Mathematics
Feliciano School of Business | The Graduate School

Montclair State University
montclair.edu **IT'S ALL HERE.**

Message from the Provost



To the faculty and student participants of the University-wide Montclair State Student Research Symposium:

This event, with some 230 participants from all across the University, expresses the energy, creativity and hard work of which our students are capable under the mentorship of the faculty. Research is hard when done well and done thoroughly but its rewards can be immense, both as personal satisfaction for the job done and for the new knowledge acquired. Mastering the methods, techniques and tools of an intellectual discipline to the degree required for applying them effectively to a real-world question or problem is the essence of an empowering education. The satisfaction of knowing how to confidently apply oneself to a challenge with the techniques of a microbiologist, a sociologist, a psychologist, an accountant, an audiologist, a filmmaker, a journalist, a teacher or public health specialist, or any of a dozen other disciplinary methodologies, is the reward of a successful education and the key to opening a door into the mansion of lifelong learning.

Even more satisfying and rewarding, then, is the challenge of tackling a problem with a toolbox of multiple methodologies, with an inter- or multi-disciplinary approach, either by mastering several different disciplines yourself, or by combining your own skills and efforts with colleagues trained in other disciplines. You may find that the problem cracks open more quickly and more easily when together you bring the collective weight of your individual skills to bear against it. Or together you can identify and address a question larger and more complex than any you could hope to solve individually. This is what has happened in all fields of human knowledge around us, and it happens because curious students like you are always finding creative new ways to apply the lessons of your teachers either to ancient questions (What is a just society? What are the essential qualities of a successful life? Does poetry matter?) or to previously unknown functions of nature (How well do parrots communicate? How unique is the DNA of surviving native brook trout in New Jersey streams?).

No one will ever answer these questions on their own and no one discipline will serve to do so. That is the challenge and excitement of interdisciplinary cooperation. That is the attraction and promise of this event today, where students from disciplines across the University come together to discuss and share their research on common issues.

The entire faculty of Montclair State are proud of the work you have presented and wish you the best for continued growth and mastery of those skills and achievements.

A handwritten signature in black ink that reads "Willard Gingerich". The signature is fluid and cursive, with the first name "Willard" being more prominent.

Dr. Willard Gingerich

Provost and Vice President for Academic Affairs

Schedule

1:00 pm – 1:30 pm	Registration University Hall Grand Hallway, 1 st Floor
1:30 pm – 1:45 pm	Opening Remarks: Dr. Willard Gingerich Provost and Vice President for Academic Affairs <i>The Intrinsic Value of Interdisciplinary Research</i> University University Hall Room 1070
1:50 pm – 2:45 pm	Oral and Multimedia Presentations Block A Room assignments listed in program
2:45 pm – 3:00 pm	Break
3:00 pm – 3:55 pm	Poster Session Block A University Hall Conference Center, 7 th Floor
4:00 pm – 4:55 pm	Oral and Multimedia Presentations Block B Room assignments listed in program
5:00 pm – 5:55 pm	Oral and Multimedia Presentations Block C Room assignments listed in program
6:00 pm – 6:55 pm	Poster Session Block B University Hall Conference Center, 7 th Floor
7:00 pm	Award Presentations and Closing Remarks University Hall Conference Center, 7 th Floor

Oral and Multimedia Presentations

Block A: 1:50 pm – 2:45 pm

1. Graduate Award Nominees – University Hall 2044

Moderator: Dr. Christopher McKinley

Title: **Understanding the recreational harvest of snapping turtles in New Jersey**
 Presenter: Natalie Sherwood Advisor: Dr. Meiyin Wu
 Co-author: Pankaj Lal

Title: **Food choices and health outcomes: An international comparison**
 Presenter: Theresa Koneski Advisor: Dr. Douglas Murray
 Co-author(s): Douglas Murray, Renata Blumberg, Shahla Wunderlich

Title: **Children should be playing at a play - The importance of active participation through play in children's theatre**

Presenter: Rebecca Campbell

Advisor: Ms. Andrea Stover

Title: "The Monster's" monster: Race, disability and social darwinism in Stephen Crane's "The Monster"

Presenter: Jennifer Daly Advisor: Dr. Monika Elbert

2. Undergraduate Award Nominees – University Hall 2042

Moderator: Ms. Linda Davidson

Title: **The making - and unmaking - of The Winter's Tale: A semiology of costumes**
 Presenter: Allison Gormley Advisor: Dr. Neil Baldwin

Title: **RIRPA-based ab initio molecular dynamics**
Presenter: Ryan Dykstra Advisor: Dr. Hendrik Eshuis

Title: **Latin American approaches to health and healing**
 Presenter: Cassandra Calle Advisor: Dr. Mark Clatterbuck

3. Individual Rights in American Criminal Law - University Hall 2040

Moderator: Dr. Ian Drake

Title: **Securing the right to privacy in an age of modern surveillance: What happens when technology evolves faster than the law**

Presenter: Mishella Romo

Advisor: Dr. Ian Drake

Title: **Mandatory Minimum Sentences: The Call for Reform in the Criminal Justice System**
 Presenter: Justin Rucci Advisor: Dr. Ian Drake

Title: **Publicized adjudication: The legal and sociological impact of trial publicity in judicial hearings**

Presenter: Ryan Stacy

Advisor: Dr. Ian Drake

Title: **Sometimes the wrong choice is the right choice**
Presenter: Elias Aydin Advisor: Dr. Ian Drake

**4. New Security Threats from Crime, Ebola, Piracy, and Non-State Actors –
University Hall 2032
Moderator: Dr. Elizabeth Wishnick**

Title: **Crime in Peru: Analyzing drug trafficking, narcoterrorism, and corruption**
Presenter: Anna Samanamu Advisor: Dr. Elizabeth Wishnick

Title: **Ebola and health security in Sierra Leone**
Presenter: Samuel Gundlach Advisor: Dr. Elizabeth Wishnick

Title: **“Somali piracy”: Human security and state security threats**
Presenter: Zahra Mustamand Advisor: Dr. Elizabeth Wishnick

Title: **Saudi Arabia’s border security dilemma**
Presenter: Travis Gross Advisor: Dr. Elizabeth Wishnick

**5. Higher Education and Pedagogy – University Hall 2026
Moderator: Dr. Peter Hosick**

Title: **Assessing the state of academic programs in sports, events and tourism at universities across the USA - Looking at trends and what they suggest for pedagogy and career development**
Presenter: Jessica Karwowski Advisor: Dr. Ricard Jensen

Title: **Nurturing teacher leaders through actions and agency: A differentiated science teacher leadership program**
Presenter: Zareen Rahman Advisor: Dr. Mika Munakata
Co-author(s): Jason McManus, Kristen Trabona

Title: **Introducing dynamic measurement: A new approach to area and volume**
Presenter: Debasmita Basu Advisor: Dr. Nicole Panorkou
Co-author: Madhavi Vishnubhotla

Title: **Conceptualization of scientific inquiry: An analytical review of the empirical literature**
Presenter: Theodore Graham Advisor: Dr. Brian Carolan

Title: **Going overseas: Challenges, benefits and lessons learned from international evaluation**
Presenter: Marisa MacDonnell Advisor: Dr. Jennifer Urban
Co-author(s): Lauren Gama, Victoria Illnick, Rebecca Jensen, Lisa Chauveron, Veronica Barrios, Miriam Linver, Jennifer Urban

Moderator: Dr. Vikash Singh

Co-author(s): Michael Jarjoura, Louis Marucci

Co-author(s): Frank Costa, Brandon Pepi

Co-author: David Lee

Presenter: Troy Dorch Advisor: Dr. Ian Drake

Moderator: Dr. Mary Naumoff

Co-author: Ashwin Vaidya, Haiyan Su

Presenter: Daniel Ferrer

Advisor: Dr. Marylou Naumoff

Moderator: Dr. Ricard Jensen

Co-author(s): Phil Forde, Sydnie Martinez

Presenter: Kent Sagun
Co-author(s): Gregory Jobeless, Chris Borroso

Presenter: Jarrell Lozada Advisor: Dr. Ricard Jensen
Co-author: Rokhaya Fall

Title: **Environmental determinants of healthy food choices**
Presenter: Iman AbdulRafiu Advisor: Dr. Deborah Ragin
Co-author(s): Erin Leo, Rebecca Bohmer

2. Literature – University Hall 2044

Moderator: Dr. Melinda Knight

Title: **Langston Hughes; More than poetry, more than prose**
Presenter: Rashaneegon Johnson Advisor: Dr. Melinda Knight

Title: **The existential dilemma of Harlem Renaissance author Nella Larsen**
Presenter: Kim Silva-Martinez Advisor: Dr. Melinda Knight

Title: **Becoming one with time: Literary immortality in “Sonnet 18”**
Presenter: Faneeza Latchana Advisor: Dr. Adam Rzepka

Title: **"She is gone": Melancholy in donne's anniversaries**
Presenter: Kimberly Plaksin Advisor: Dr. Adam Rzepka

Title: **Facts in fiction: An interdisciplinary approach to gaining legal understanding through literature**
Presenter: Lauren Haberstroh Advisor: Dr. Marilyn Tayler

3. Literature and Multiculturalism – University Hall 2042

Moderator: Dr. Linda Gould Levine

Title: **The new testament as a "Greek classics"**
Presenter: Benjamin Miller Advisor: Ms. Beth Scheckel

Title: **Don Quijote: “Stew a la cervantes - Un potage a la Cervantes”**
Presenter: Joseph Diaz Advisor: Dr. Linda Gould Levine

Title: **The complex identity of Quisqueya, Haiti**
Presenter: Cala Fils Advisor: Dr. Joanna Dezio

Title: **The influence of Don Quixote de la Mancha on the silent films of Charlie Chaplin**
Presenter: Joseph Gonzalez Advisor: Dr. Linda Gould Levine

Title: **Lineage: A humanist interpretation of Don Quijote**
Presenter: Wilkin Santana Advisor: Dr. Linda Gould Levine

4. Race and Ethnicity – University Hall 2040

Moderator: Dr. Sangeeta Parashar

Title: **Racially charged costumes: A report on 'othering' behavior**
Presenter: Fe Lorraine Reyes Advisor: Dr. Marylou Naumoff

Title: **Borderlands and Mexican-American identity**
 Presenter: Mia Gomez Advisor: Dr. Elspeth Martini

Title: **Latino youth advocating for social change**
 Presenter: Carolina Mendonca Advisor: Dr. Bradley Forenza
 Co-author: Bradley Forenza

Title: **America's caste system: Intergenerational mobility from 1972-2012**
 Presenter: Michelle Strothers Advisor: Dr. Sangeeta Parashar
 Co-author: Shannel Paulino

5. Business and Economics – University Hall 2032 Moderator: Dr. Elspeth Martini

Title: **Statistical models for predicting credibility for bankers**
 Presenter: Michael Restrepo Advisor: Dr. Haiyan Su

Title: **Is there profitability in responsibility?**
 Presenter: Nicholas William Advisor: Dr. Manveer Mann

Title: **The prevalence of social media marketing among Italian SMEs**
 Presenter: Alban Dalliu Advisor: Mr. Valerio Temperini
 Co-author(s): Farakh Chaudhry, Jovan Djuratovic

Title: **Economic inconsistencies of the mid-twentieth century and the unfulfilled mission of the national park service**
 Presenter: Christopher Sudol Advisor: Dr. Esperanza Brizuela-Garcia

Title: **Borderlands in the Great Lakes: The native struggle redefined**
 Presenter: Taylor Hagy Advisor: Dr. Elspeth Martini

6. Health Care Policy and Public Health– University Hall 2026 Moderator: Dr. Lisa Lieberman

Title: **A view on the constitutional rights of adolescent patients**
 Presenter: Brian Murray Advisor: Dr. Ian Drake

Title: **A social ecological perspective on the Indonesian maternal mortality problem**
 Presenter: Inraini Syah Advisor: Dr. Amanda Birnbaum

Title: **'Nicotine free challenge' call for actions!**
 Presenter: Kadek Ridoi Rahayu Advisor: Dr. Lisa Lieberman

Title: **An environmental assessment of drinking fountains and vending machines**
 Presenter: Alessandro Ciari Advisor: Ms. Melanie Shefchik

Title: **Fatalities on America's highways: Trends and tendencies**
 Presenter: Keyan Ostad-Hashemi Advisor: Dr. Greg Pope

7. Chemistry and Biochemistry I – University Hall 2025

Moderator: Dr. Nina Goodey

- Title: **Ionic liquid based fluorescent sensors for cations**
Presenter: Johanna Breininger Advisor: Dr. Saliya Desilva
- Title: **A fluorescent sensor for Zinc (II) ions with an additional PET pathway to suppress protons signals**
Presenter: Brian Huapaya Advisor: Dr. Saliya Desilva
Co-author: Andrew Schneier
- Title: **Metals and microbes at Liberty State Park**
Presenter: Eleanor Ojinnaka Advisor: Dr. Nina Goodey
Co-author(s): Nina Goodey, Jennifer Krumins, Jay Singh
- Title: **Expression, purification, and enzymatic profile of *Brugia malayi* dihydrofolate reductase**
Presenter: Romy Perez-Abraham Advisor: Dr. Nina Goodey

8. Chemistry and Biochemistry II – University Hall 2013

Moderator: Dr. Sandra Passhier

- Title: **Binding of KL001 to CRY-DASH as a function of FAD oxidation state**
Presenter: Pamela Jumbo Cueva Advisor: Dr. Yvonne Gindt
Co-author(s): David Konas, Derek Darby, Yvonne Gindt
- Title: **Modeling the formation of tetrahydropyranyl radicals via hydrogen abstraction**
Presenter: Robert Booth Advisor: Dr. Marc Kasner
- Title: **Investigation of pH effects on the formation and degradation of unusual oxidation states in *Sufolobus solfataricus* photolyase**
Presenter: Justin Vercellino Advisor: Dr. Yvonne Gindt
Co-author(s): Mengqi Li, Sudipto Munshi, Robert Stanley, Yvonne Gindt

9. Environment and Disasters – University Hall 2010

Moderator: Dr. Jennifer Krumins

- Title: **Environmental correlates of ranavirus disease distribution in New Jersey**
Presenter: Adriana Messyasz Advisor: Dr. Lisa Hazard
Co-author(s): Lisa Hazard, Kirsten Monsen-Collar
- Title: **Analysis of pliocene core DVDP-11 as evidence of a vegetated coastline**
Presenter: Christina Verhagen Advisor: Dr. Sandra Passchier
- Title: **Transport and distribution of heavy metals in sediment in Bohai Bay**
Presenter: Yuanyi Li Advisor: Dr. Huan Feng
Co-author(s): Huan Feng, Dekui Yuan, Jing Nie

Oral and Multimedia Presentations

Block C: 5:00 pm – 5:55 pm

1. War and Violence – University Hall 2009

Moderator: Dr. Brian Smith

Title: **Causal effects of occupation: What drives individuals to violence?**
 Presenter: Travis Gross Advisor: Dr. Tony Spanakos

Title: **Because God says so! How and why cult members fall victims of the Stockholm syndrome: The example of Jonestown**

Presenter: Seraphine Nzue-Agbadou Advisor: Dr. Lois Oppenheim
Co-author: Grace Agbadou

Title: **Democracy in the Middle East and its effect on human rights: An interdisciplinary analysis**

Presenter: Tamara Anaie **Advisor:** Dr. Ian Drake

Title: **The liberal and realist approach for war and peace**
 Presenter: Valeria Valle Advisor: Dr. Brian Smith

2. Infants, Children, and Youth – University Hall 2008

Moderator: Dr. Laura Lakusta

Title: **The language of support in young children’s spontaneous speech**
 Presenter: Maria Brucato Advisor: Dr. Laura Lakusta
 Co-author(s): Amrita Bindra, Madalyn Polen, Laura Lakusta, Barbara Landau

Title: **Infants categorization of goal events**
 Presenter: Danielle Spinelli
 Co-author: Samantha Farese

Advisor: Dr. Laura Lakusta

Title: Thinking ahead: The role of goal selection in youth future mindedness
Presenter: Marisa MacDonnell **Advisor:** Dr. Jennifer Urban
Co-author(s): Lisa Chauveron, Veronica Barrios, Lauren Gama, Victoria Illnick, Rebecca Jensen, Miriam Linver, Jennifer Urban

Title: Predicting positive youth development from self regulation and sense of purpose in early adolescence

Presenter: Lauren Gama **Advisor:** Dr. Miriam Linver

Co-author(s): Victoria Illnick, Marisa MacDonnell, Veronica Barrios, Lisa Chauveron, Rebecca Jensen , Miriam Linver, Jennifer Urban

Moderator: Dr. Tony Spanakos

Title: **Two decades, two worlds - A look into the 1996 and 2016 Olympic games**
 Presenter: Emma Cimo Advisor: Ms. Kelly Whiteside
 Co-author: Fabricio Costa

Moderator: Dr. Glen Gill

Title: **Classical and medieval mythologies through the lens of Freud**
 Presenter: Daniel Salazar Advisor: Dr. Glen Gill

Moderator: Dr. Anna Feldman

Title: **The importance of visual prosody in sentiment discrimination**
 Presenter: Joanne Quinn Advisor: Dr. Jonathan Howell

6. Technology – University Hall 2032

Moderator: Dr. Yi Luo

Title: **Identifying users in an anonymized social network**

Presenter: Andrew Pallotto

Advisor: Dr. Jonathan Cutler

Title: **Rights for robots? Should beings with artificial intelligence be accorded human rights?**

Presenter: Priya Persaud

Advisor: Dr. Ian Drake

Title: **Bridging the 2nd and 3rd dimensions: Crossing over**

Presenter: Evans Mbai

Advisor: Ms. Lauren Carr

7. Counseling and Psychology – University Hall 2026

Moderator: Dr. Joshua Sandry

Title: **Applying neuroscience research to counseling practice for neurocurious clinicians**

Presenter: Kathy Shoemaker

Advisor: Dr. Leslie Kooyman

Title: **The relationship between bullying and suicidal ideations among suburban adolescents: The mediating risk factors**

Presenter: David Lardier Jr.

Advisor: Dr. Robert Reid

Co-author(s): Veronica Barrios, Pauline Garcia-Reid, Robert Reid

Title: **The effect of future oriented tasks vs incidental orienting task on item-to-item associations**

Presenter: Victoria Winters

Advisor: Dr. Joshua Sandry

Title: **Flexibility of the focus of attention and its effect on long-term memory for sequentially presented information**

Presenter: Mark Zuppichini

Advisor: Dr. Joshua Sandry

Co-author: Joshua Sandry

8. Microbiology and Natural Products – University Hall 2025

Moderator: Dr. Lee Lee

Title: **Testing the efficacy of green tea polyphenols in inhibiting the germination of endospores of *Bacilli* sp. through in-vitro analysis**

Presenter: Bushra Ali

Advisor: Dr. Lee Lee

Title: **Green tea polyphenols inhibit biofilm formation in the dental cavity causing bacteria streptococcus mutans**

Presenter: Amy Lynn Melok

Advisor: Dr. Lee Lee

Title: **Green tea polyphenols and antibiotics synergistically inhibit the growth of bacteria**

Presenter: Siti Ayuni Mohamed Yussof

Advisor: Dr. Lee Lee

Title: **Analysis of novel alternative to targeting prosthetic joint infections in vitro**
Presenter: Christopher Chen Advisor: Dr. Lee Lee

9. Physics and Applied Math – University Hall 2013
Moderator: Dr. Eric Forgoston

Title: **Gravitational waves from eccentric binaries**
Presenter: Blake Moore Advisor: Dr. Marc Favata

Title: **"Early-warning signals" predictors of extinction events in dynamical models**
Presenter: Walter Ullon Advisor: Dr. Eric Forgoston

Title: **The ping-pong effect: Extinction dynamics in stochastic populations with migration**
Presenter: Alexa Aucoin Advisor: Dr. Eric Forgoston

Title: **Randić connectivity indices and energy of cycle based graphs**
Presenter: Jhonny Almeida Advisor: Dr. Aihua Li

Poster Presentations

Block A: 3:00 pm – 3:55 pm

(Alphabetical by Presenter's Last Name)

Graduate Award Nominees for Poster Presentations

- Title: **Hostile intent cognitions as a moderator of negative life events and aggression in school-aged children (A37)**
Presenter: Evelyn Duran
Co-author(s): Holly Kobezak, Jenna Taffuri, Jeremy Fox, Julie Ryan, Leslie Halpern
Advisor: Dr. Jeremy Fox
- Title: **Exploring variations in teacher and student agency in an out-of-school videogame-based mathematics class (A69)**
Presenter: Justin Seventko
Advisor: Dr. Steven Greenstein
-

Undergraduate Award Nominees for Poster Presentations

- Title: **Unlawful enemy combatants: The rights of a faceless enemy (A66)**
Presenter: Jonathan Kyparissis
Advisor: Dr. Ian Drake
- Title: **Music influences food selection (A68)**
Presenter: Sarah Lyons
Co-author(s): Alexandra Pyper, Tamaru Geller, Khadeeja Riaz, Scarlet Ruiz, Sara Panei
Advisor: Dr. Debra Zellner
-
- Title: **Green tea polyphenols: A potential synergistic antibacterial agent in oral care products (A1)**
Presenter: Yasmeen Abboud
Co-author(s): Amy Lynn Melok, Siti Ayuni Mohamed Yossuf, Lee Lee, Christopher Chen
Advisor: Dr. Lee Lee
- Title: **Comparison of turn alternation frequencies in nymph and adult Turkestan Cockroaches (*Blatta lateralis*) (A2)**
Presenter: Andrew Aboagye
Advisor: Dr. Scott Kight
- Title: **Determining the optimal starting technique for stealing a base (A3)**
Presenter: Connor Abreu
Advisor: Dr. Steven Leigh
- Title: **Macroinvertebrate assemblages in selected New Jersey springs (A4)**
Presenter: Yaritza Acosta-Caraballo
Advisor: Dr. Meiyin Wu

Title: **Class connect (A5)**
 Presenter: Jeffrey Adamski
 Co-author: Sebastian Kufel
 Advisor: Dr. Christopher Leberknight

Title: **Model and analysis of statewide precipitation data over recent years (A6)**
 Presenter: Sahar Ahmed
 Advisor: Dr. Andrew McDougall

Title: **Examining how allosteric mutations affect ligand binding and specificity on dihydrofolate reductase (A7)**
 Presenter: Melany Alfonso
 Co-author(s): Nina Goodey, Romy Perez, Danielle Marie Le Roux
 Advisor: Dr. Nina Goodey

Title: **Coping with loss and bereavement across long distances: Reflections of older immigrants (A8)**
 Presenter: Eva Apelian
 Co-author(s): Olena Nesteruk, Ronica Pangilinan
 Advisor: Dr. Olena Nesteruk

Title: **Language development of goal spatial prepositions (A9)**
 Presenter: Jessica Ardis
 Co-author(s): Laura Lakusta, Amrita Bindra, Michelle Indarjit
 Advisor: Dr. Laura Lakusta

Title: **Prevalence of the pathogens Ranavirus and Batrachochytrium dendrobatidis among Woodfrog populations in the Pinelands (A10)**
 Presenter: Araba Assan
 Co-author: Dwa'a Alkhalaf
 Advisor: Dr. Kirsten Monsen-Collar

Title: **Green infrastructure (A11)**
 Presenter: Mikayla Atkins
 Advisor: Dr. Greg Pope

Title: **A potential role for 5,10-methenyltetrahydrofolate to protect flavin adenine dinucleotide in the DNA repair enzyme photolyase (A12)**
 Presenter: Stephanie Avalos
 Co-author: Johannes Schelvis
 Advisor: Dr. Johannes Schelvis

Title: **Application of near surface geophysical methods to image water table response in an Alpine Meadow, Northern California (A13)**
 Presenter: Mike Ayers
 Co-author(s): Tanya Blacic, Mitchell Craig, Sarah Yarnell
 Advisor: Dr. Tanya Blacic

Title: **Eye-tracking fixation variation and interaction between verb telicity and adverb type (A14)**
 Presenter: Froogh Aziz
 Advisor: Dr. David Townsend

Title: **Should college athletes receive compensation? (A15)**
 Presenter: Kyle Banas
 Advisor: Dr. Ian Drake

Title: **Impacts of gelatinous Zooplankton on pelagic community structure in Barnegat Bay, NJ (A16)**
 Presenter: Christie Barry
 Co-author(s): Paul Bologna, John Gaynor
 Advisor: Dr. Paul Bologna

Title: **Coastal vulnerability of Atlantic County New Jersey (A17)**
 Presenter: Anthony Bevacqua
 Advisor: Dr. Danlin Yu

Title: **The ecology of St. John Bay mangrove-root fouling communities: Recovery of the epibiota community (A18)**
 Presenter: Alan Buob
 Co-author: Paul Bologna
 Advisor: Dr. Paul Bologna

Title: **Comparison of DNA repair in mesophilic and thermophilic systems (A19)**
 Presenter: Elizabeth Burger
 Co-author: Yvonne Gindt
 Advisor: Dr. Yvonne Gindt

Title: **Love that dirty water: Potential microbial diversity in on-street hot dog water (A20)**
 Presenter: Nelson Casanova
 Co-author(s): Jessica Rajchel, Annamaria De Bari, Julian Paul Keenan, Robert Meredith
 Advisor: Dr. John Gaynor

Title: **MSU sustainability center: Inspired by earthship (A21)**
 Presenter: Stephano Castro
 Advisor: Dr. Robert Taylor

Title: **Photoactivation of CF3I in the presence of photoexcited Ru(bpy)₃⁺ (A22)**
 Presenter: Julianna Chedid
 Advisor: Dr. Hendrik Eshuis

Title: **Gun violence vs. state laws (A23)**
 Presenter: Matthew Cheung
 Co-author(s): Danlin Yu, Jon Zawacki
 Advisor: Dr. Greg Pope

Title: **Mangroves are dying (A24)**
 Presenter: Matthew Cheung
 Co-author: Jorge Trueba
 Advisor: Dr. Jorge Trueba

Title: **Preservation of ancient barriers on the continental shelf: Insights from a simple morphodynamic model (A25)**
 Presenter: Daniel Ciarletta
 Co-author: Jorge Trueba
 Advisor: Dr. Jorge Trueba

Title: **Investigation of the mechanistic switch in VcCry1 (A26)**
 Presenter: Gabrielle Connolly
 Co-author: Yvonne Gindt
 Advisor: Dr. Yvonne Gindt

Title: **Student enrollment by county and geographic distance decay functions (A27)**
 Presenter: Isamar Cortes
 Co-author(s): Roy Mateus, Mauricio Estaban Garcia, Rachel Ann Preece, Arianna Qira, Samiyah Roberts, Colin Trevors, Katrina Villani, et al.
 Advisor: Dr. Greg Pope

Title: **Can the use of fuel-efficient (environmentally friendly) automobiles vary in Northern NJ counties? (A28)**
 Presenter: Isamar Cortes
 Advisor: Dr. Greg Pope

Title: **Hyaluronidase in the venom of the Sea Nettle (*Chrysaora quinquecirrha*) (A29)**
 Presenter: Zachary Cropley
 Advisor: Dr. John Gaynor

Title: **Does social context influence positional, feeding and aggressive behavior in Turkestan Cockroach Nymphs, *Blatta lateralis*? (A30)**
 Presenter: Peter Cruz
 Advisor: Dr. Scott Kight

Title: **Do secondary school mathematics textbooks provide opportunities for realistic problem-solving? (A31)**
 Presenter: Mary Dalton
 Advisor: Dr. Eileen Fernandez

Title: **The euphoric affect of the anti drug abuse act (A32)**
 Presenter: Rashad Days
 Advisor: Dr. Ian Drake

Title: **Development of negative mode free radical activated glycan structure elucidation reagents (A33)**

Presenter: Nikunj Desai

Co-author: Jungeun Lee

Advisor: Dr. Jinshan Gao

Title: **A comparative analysis of the ZAP-70 gene in mammals (A34)**

Presenter: Rebecca Dhawan

Co-author: Robert Meredith

Advisor: Dr. Robert Meredith

Title: **Female Genital Mutilation in the U.S.: Scope and prevention methods (A35)**

Presenter: Mame Kani Diop

Advisor: Dr. Pearl Stewart

Title: **Evaluating the consistency of soccer match analysis techniques (A36)**

Presenter: Jeffrey Duarte

Co-author: Nicolas Barrios

Advisor: Dr. Steven Leigh

Title: **An investigation of automatic access to spatial representations of numbers (A38)**

Presenter: Patrick Dwyer

Co-author: Yoav Ariei

Advisor: Dr. Yoav Ariei

Title: **Functional consequences of ICER ubiquitination (A39)**

Presenter: Dina Edani

Co-author(s): Rossara Nunez, Joseph Bulatowicz

Advisor: Dr. Carlos Molina

Title: **Characterization of isolated actinobacteriophage using polymerase chain reaction (A40)**

Presenter: Schyler Edwards

Advisor: Dr. Sandra Adams

Title: **A tool support for managing implicit requirements using common sense knowledge (A41)**

Presenter: Onyeka Emebo

Co-author: Aparna Varde

Advisor: Dr. Aparna Varde

Title: **Annotation of novel Mycobacterium and Arthrobacter bacteriophage genomes from New Jersey soil (A42)**

Presenter: Tony Feghali

Co-author(s): Yesenia Acosta, Mohamad Abboud, Jennifer Michelle Aguirre, Omran Ahmadi, Edward Shamarr Anderson, Anthony Arena, Joshua Bacatan, et al.

Advisor: Dr. Kirsten Monsen-Collar

Title: **French language, identity, and discrimination (A43)**
 Presenter: Dustine Finck
 Advisor: Ms. Anne-Caroline Sieffert

Title: **Sharing lab and learning successes: The art of public relations (A44)**
 Presenter: Lauren Gama
 Co-author(s): Lisa Chauveron, Rebecca Jensen, Marisa MacDonnell, Veronica Barrios, Victoria Illnick, Jennifer Brown Urban, Miriam Linver
 Advisor: Dr. Miriam Linver

Title: **An examination of the sociodemographic and health determinants of major depressive disorders in black women using NHANES data (A45)**
 Presenter: Michelle Gardner
 Co-author(s): Ndidiamaka Amutah, Laurén Doamekpor
 Advisor: Dr. Ndidiamaka Amutah

Title: **Effects of World Trade Center 9-11 particulate matter on mitochondrial damage seen in human lung cell in vitro (A46)**
 Presenter: Vern Gatson
 Co-author(s): William Shergalis, Christian Gonzales, Rebekah Madrid, Kentrishia Lubin, Momna Hassan
 Advisor: Dr. Ann Marie DiLorenzo

Title: **Computational techniques for measuring internet censorship (A47)**
 Presenter: Zhisong Ge
 Advisor: Dr. Christopher Leberknight

Title: **New molybdenum bronze phases (A48)**
 Presenter: Brian Giraldo
 Co-author(s): Lynn Schneemeyer, Theo Siegrist, Tiglet Besara
 Advisor: Dr. Lynn Schneemeyer

Title: **A hands-on application-based tool for STEM students to understand differentiation (A49)**
 Presenter: Briana Goncalves
 Co-author(s): Ausamah Hobbi, Amir Golnabi
 Advisor: Dr. Amir Golnabi

Title: **Isolation and characterization of novel mycobacterium smegmatis and arthrobacter sp. bacteriophage from New Jersey soil (A50)**
 Presenter: Wedad Haddabeh
 Co-author(s): Yesenia Acosta, Mohamad Abboud, Jennifer Aguirre, Omran Ahmadi, Edward Anderson, Anthony Arena, Joshua Bacatan, et al.
 Advisor: Dr. Sandra Adams

Title: **Do public prisons achieve the goals of the criminal justice system better than private, for-profit prisons? (A51)**
 Presenter: Christopher Halleran
 Advisor: Dr. Ian Drake

Title: **Investigating the correlation between cognitive fatigue and brain iron deposition in Basal Ganglia in Multiple Sclerosis (A52)**
 Presenter: Emilyrose Havrilla
 Co-author(s): Sarah Wood, Ekaterina Dobryakova, Zhiguo Jiang, Bing Yao
 Advisor: Dr. Josh Sandry

Title: **Neuroscience and judging (A53)**
 Presenter: Markil Howard
 Advisor: Dr. Ian Drake

Title: **Re-inventing the (pottery) wheel: Ceramic production in ancient Greece (A54)**
 Presenter: Sophia Hudzik
 Advisor: Dr. Deborah Chatr Aryamontri

Title: **Groundwater depletion in aquifers of the New Jersey coastal plain (A55)**
 Presenter: Michael Johnson
 Advisor: Dr. Greg Pope

Title: **Investigating cervical spine motion while transferring football players to a stretcher (A56)**
 Presenter: Jennifer Kalash
 Co-author: Tyler Melnicove
 Advisor: Dr. Steven Leigh

Title: **Measuring vortex length through numerical simulation of a flow channel (A57)**
 Presenter: Matt Karlson
 Advisor: Dr. Bogdan Nita

Title: **Determining late pleistocene to early holocene deglaciation patterns within the Hanö Bay of the Baltic Sea through sedimentological core sample analysis (A58)**
 Presenter: April Kelly
 Co-author: Sandra Passchier
 Advisor: Dr. Sandra Passchier

Title: **Socioeconomic status and malnutrition: A global approach (A59)**
 Presenter: Ora Kemp
 Advisor: Dr. Amanda Birnbaum

Title: **Molecular cloning and expression of chrysaoralin: A novel pore-forming toxin from jellyfish venom (A60)**
 Presenter: Anup Khanal
 Co-author: George Shchegolev
 Advisor: Dr. John Gaynor

Title: **Meaning behind English intonation for native Indonesian L2 learners (A61)**
 Presenter: Uswatun Khasanah
 Co-author: Gina Cordero
 Advisor: Dr. Jonathan Howell

Title: **Coupled modeling of coastal dunes and socio-economic impacts (A62)**
Presenter: Jesse Kolodin
Advisor: Dr. Jorge Trueba

Title: **Salinity tolerance of two-lined salamanders (A63)**
Presenter: Kelly Krolik
Advisor: Dr. Lisa Hazard

Title: **Grain size and organic geochemistry of the Kattegat sediment to determine paleoenvironments of the last interglacial-glacial cycle (A64)**
Presenter: Taylor Krolik
Advisor: Dr. Sandra Passchier

Title: **The debate on immunizations (A65)**
Presenter: Mildred Kroung
Advisor: Dr. Ian Drake

Poster Presentations

Block B: 6:00 pm – 6:55 pm

(Alphabetical by Presenter's Last Name)

Title: **Maximum or minimum RCI values of graphs consisting of trees with a hexagonal base (B1)**
Presenter: Giancarlo Labruna
Advisor: Dr. Aihua Li

Title: **A biometric analysis of mate choice copying in people (B2)**
Presenter: Jonathan Lenhardt
Advisor: Dr. Peter Vietze

Title: **The kinetics of the formation and degradation of interesting oxidation states found with *sulfolobus solfataricus* photolyase (B3)**
Presenter: Mengqi Li
Co-author(s): Justin Vercellino, Sudipto Munshi, Robert Stanley, Yvonne Gindt
Advisor: Dr. Yvonne Gindt

Title: **Transport and distribution of heavy metals in sediment in Bohai Bay (B4)**
Presenter: Yuanyi Li
Co-author(s): Huan Feng, Dekui Yuan, Jing Nie
Advisor: Dr. Huan Feng

Title: **Diadema antillarum population density, size distribution, and biomass in an UNESCO biosphere reserve (B5)**
Presenter: Lauren Liddy
Advisor: Dr. Paul Bologna

Title: **Geochemistry of the east antarctic margin spanning the eocene oligocene transition (B6)**
 Presenter: Jennifer Light
 Co-author: Sandra Passchier
 Advisor: Dr. Sandra Passchier

Title: **The process of the creation of the play-based observation of development and interaction tool at the Center for Autism and Early Childhood Mental Health (B7)**
 Presenter: Andrew Lokai
 Co-author(s): Alison Stratthaus, Keri Georgewitz, Jessica Maneri
 Advisor: Kaitlin Mulcahy

Title: **Structural characterization of thymine cyclobutane dimers in solution (B8)**
 Presenter: Michael Lorence
 Advisor: Dr. Johannes Schelvis

Title: **Comparative analysis of COL1A1 gene in different mammals (B9)**
 Presenter: Israa Maani
 Co-author: Robert Meredith
 Advisor: Dr. Robert Meredith

Title: **Police attitudes in a new era: A look at how the new millennium has changed the New York tri-state area's police (B10)**
 Presenter: Tara Mahady
 Advisor: Dr. Christopher Donoghue

Title: **Effect of fertilization on native and non-native wetland plants (B11)**
 Presenter: Martha Mahady
 Advisor: Dr. Dirk Vanderklein

Title: **Benefit-based tree and valuation of an urban Forest City park system; Columbus Park-Hackensack NJ (B12)**
 Presenter: Roy Mateus
 Advisor: Dr. Greg Pope

Title: **United States and FIFA's World Cup corruption (B13)**
 Presenter: Justin McAndrew
 Advisor: Dr. Ian Drake

Title: **The depreciation of property values and home sales caused by vacant and abandoned properties in the city of Newark, New Jersey (B14)**
 Presenter: Emily McIntosh
 Advisor: Dr. Greg Pope

Title: **Using software defined radio to test the internet of things (B15)**
 Presenter: Kevin Miller
 Advisor: Dr. Christopher Leberknight

Title: **Designing a windwalker: An undergraduate open-ended physics project (B16)**
 Presenter: Ceire Monahan
 Advisor: Dr. Mika Munakata

Title: **ELLS and English word stress (B17)**
 Presenter: Terra Nicoll
 Co-author: Emily Peterman
 Advisor: Dr. Jonathan Howell

Title: **The effect of pH and charybdotoxin on growth of human glioma cell lines (B18)**
 Presenter: Chelsea O'Koren
 Co-author(s): Mike Young, Vladislav Snitsarev, Elena Petroff
 Advisor: Dr. Elena Petroff

Title: **Sequence variants of the pathogen ranavirus isolated from northeastern amphibians (B19)**
 Presenter: Nadeem Obaydou
 Co-author(s): Kirsten Monsen-Collar, Lisa Hazard, Fathima Idris
 Advisor: Dr. Kirsten Monsen-Collar

Title: **Lipophilic green tea polyphenol can inhibit bacteria growth and endospore formation in food and milk (B20)**
 Presenter: Chinweude Okani
 Co-author(s): Bushra Ali, Brianne Cravello, Lee Lee
 Advisor: Dr. Lee Lee

Title: **Vaccines (B21)**
 Presenter: Pasquale Pascarella
 Advisor: Dr. Ian Drake

Title: **Episodic memory performance in inconsistent-relative to consistent right-handers (B22)**
 Presenter: Neil Patel
 Co-author(s): Ruth Propper, Christophe Carlei, Stephen Christman
 Advisor: Dr. Ruth Propper

Title: **Recreational beach erosion on the New Jersey shoreline (B23)**
 Presenter: Rachel Preece
 Advisor: Dr. Greg Pope

Title: **Characterization of a parasitic anti-stress protein kinase, SEK-1, from Brugia malayi (B24)**
 Presenter: Monika Prorok
 Co-author(s): Agnieszka Chojnowski, Tamara Kreiss
 Advisor: Dr. John Siekierka

Title: **Grazing potential of sparisoma radians on native seagrass (*Thalassia testudinum*) and invasive seagrass (*Halophila stipulacea*) in St. John, USVI (B25)**
 Presenter: Elizabeth Pudlak
 Advisor: Dr. Paul Bologna

Title: **New rock climbing recreation areas: Piecing together data to find new crags (B26)**
 Presenter: Arianna Qira
 Advisor: Dr. Greg Pope

Title: **Using the chain rule to develop secondary school teachers' mathematical knowledge for teaching, focused on the rate of change: Secondary mathematics teachers' knowledge of the chain rule and its' impact on their teaching of the rate of change (B27)**
 Presenter: Zareen Rahman
 Co-author(s): Debasmita Basu, Karmen Yu
 Advisor: Dr. Eileen Murray

Title: **Green tea polyphenols can inhibit endospore sporulation in *Bacillus* sp. (B28)**
 Presenter: Richa Rana
 Co-author(s): Ujash Patel, Mohammad Khan
 Advisor: Dr. Lee Lee

Title: **Genetic diversity of red mangroves (*Rhizophora mangle*) in a UNESCO biosphere reserve, St. John, USVI (B29)**
 Presenter: Dena Restaino
 Co-author(s): Paul Bologna, James Campanella
 Advisor: Dr. Paul Bologna

Title: **Rome in America: How ancient roman law has influenced modern American law (B30)**
 Presenter: Christian Rivera
 Advisor: Dr. Ian Drake

Title: **Project DASH: (Divas against the spread of HIV/AIDS) results of a pilot study on HIV risk and mother-daughter communication among African American daughters with HIV+ mothers (B31)**
 Presenter: Monica Rodriguez
 Co-author(s): Ndidiyama Amutah, Rodney Hammond, Lauren Ramos, Patryce Burgess, Winston Abara, Debbie Humphries, et al.
 Advisor: Dr. Ndidiyama Amutah

Title: **Piercing the power of populism: Constructing judicial empowerment and independence in Latin America (B32)**
 Presenter: Mishella Romo
 Advisor: Dr. Tony Spanakos

Title: **Multidisciplinary environmental assessment of Greenwood Lake (B33)**
 Presenter: Alessandra Rossi
 Co-author(s): Kevin Olsen, Bianca Wentzell, Meiyin Wu
 Advisor: Dr. Meiyin Wu

Title: **Green tea polyphenols with antibiotics reverse the biofilm formation in bacteria (B34)**
 Presenter: Angela Salazar
 Co-author(s): Siti Ayuni Mohamed Yussof, Amy Lynn Melok, Lee Lee, Shrameeta Shinde, Giselle Lalata
 Advisor: Dr. Lee Lee

Title: **In vitro synergistic antiviral activity of epigallocatechin gallate-strearate and acyclovir on herpes simplex virus types 1 and 2 in vero cells (B35)**
 Presenter: Bianca Sanabria
 Advisor: Dr. Sandra Adams

Title: **A legal dissection: The national debate to establish a federal mandate to medically-accurate and comprehensive sex education within a multicultural society (B36)**
 Presenter: Montana Scholz
 Advisor: Dr. Ian Drake

Title: **Stability study of green tea polyphenols EGCG and EGCG-S as antimicrobial agents (B37)**
 Presenter: Emma Seidman
 Co-author(s): Brianne Cravello, Yasmee Abboud
 Advisor: Dr. Lee Lee

Title: **The curvilinear effects of extroversion on subjective and objective sales outcomes (B38)**
 Presenter: William Sevcik
 Advisor: Dr. Daniel Simonet

Title: **Understanding the recreational harvest of snapping turtles in New Jersey (B39)**
 Presenter: Natalie Sherwood
 Co-author: Pankaj Lal
 Advisor: Dr. Meiyin Wu

Title: **Numerical detection of wave breaking in the short-pulse equation (B40)**
 Presenter: Jeffrey Slepoy
 Advisor: Dr. David Trubatch

Title: **New filter media for urban stormwater management (B41)**
 Presenter: Hanieh Soleimanifar
 Co-author: Yang Deng
 Advisor: Dr. Yang Deng

Title: **A Bioinformatics Study On The Noncovalent Interactions Between The Tea Polyphenol, EGCG-S, And HSV-2 Glycoproteins (B42)**
 Presenter: Peter Stamos
 Advisor: Dr. Sandra Adams

Title: **Combining auditory and visual information in object discrimination: independent vs. integration decision models (B43)**
 Presenter: William Stoll
 Co-author: Yoav Ariei
 Advisor: Dr. Yoav Ariei

Title: **The transcription and translation of lysin A and lysin B (B44)**
 Presenter: Nandini Surendranathan
 Advisor: Dr. Quinn Vega

Title: **Arcade style game development (B45)**
 Presenter: Eric Svitok
 Advisor: Dr. George Antoniou

Title: **Screening transgenic zebrafish (Danio rerio) expressing EGFP under an ovarian specific promoter (B46)**
 Presenter: Aneta Szpernoga
 Advisor: Dr. Carlos Molina

Title: **Progress on the study of substrate specificity in indole-3-glycerol phosphate synthase (B47)**
 Presenter: Jessica Tan
 Co-author: Kate Pinsley
 Advisor: Dr. David Konas

Title: **The effects of EGCG-s on gene expression of HSV-1 and HSV-2 (B48)**
 Presenter: Mariam Tariq
 Advisor: Dr. Sandra Adams

Title: **Educational access, the community college, and social mobility: Questioning the nature of educational equality and equity (B49)**
 Presenter: Ricardo Taveras
 Advisor: Ms. Marissa Silverman

Title: **Do giant waterbugs, belostoma flumineum say, exhibit turn alternation behavior in response to indirect predator cues? (B50)**
 Presenter: Samantha Tedesco
 Co-author: Johnny Hoang
 Advisor: Dr. Scott Kight

Title: **Investigating the effects of dance training on performance in two dance leaps (B51)**
 Presenter: Brittany Tierney
 Advisor: Dr. Steven Leigh

Title: **Expression, purification, and characterization of W. bancrofti DHFR as a drug target in treating lymphatic filariasis (B52)**
 Presenter: Andrew Tobias
 Co-author(s): Ulrich Gubler, Nina Goodey
 Advisor: Dr. Nina Goodey

Title: **Sustainability: A new aspect of golf course management (B53)**
 Presenter: Colin Trevors
 Advisor: Dr. Greg Pope

Title: **Bark pitch and the perception of dog size: The effect of congruent and incongruent sounds (B54)**
 Presenter: Michael Vazquez
 Co-author(s): Alexandra Medina, Yoav Ariei
 Advisor: Dr. Yoav Ariei

Title: **PiMesh - implementation of mesh network on multiple raspberry pi's (B55)**
 Presenter: Raju Vemula
 Advisor: Dr. Christopher Leberknight

Title: **In vitro antiviral activity of black tea extract (BTE) on sindbis virus in vero cells (B56)**
 Presenter: Jose Villagomez
 Advisor: Dr. Sandra Adams

Title: **Designing a learning trajectory for developing students' thinking of dynamic measurement (B57)**
 Presenter: Madhavi Vishnubhotla
 Co-author: Debasmita Basu
 Advisor: Dr. Nicole Panorkou

Title: **Infrastructure of nearby New Jersey state parks (B58)**
 Presenter: Frank Vocaturo
 Advisor: Dr. Greg Pope

Title: **Density and distribution of shallow Caribbean porifera from an UNESCO Biosphere Reserve in St. John, USVI (B59)**
 Presenter: Patrick Vojnyk
 Advisor: Dr. Paul Bologna

Title: **The mechanism of inhibition of botulinum neurotoxin type A by two novel quinoline compounds (B60)**
 Presenter: Yacoba Vroom Teschemaker Minnow
 Co-author(s): David Rotella, Ronald Goldberg, John Siekierka, Nina Goodey
 Advisor: Dr. Nina Goodey

Title: **Promising novel method in treating prosthetic joint infections (B61)**
 Presenter: Steve Williams
 Co-author(s): Shanice Otieno, Christopher Chen, Lee Lee
 Advisor: Dr. Lee Lee

Title: **International students' life; A review of issues and potential solutions (B62)**
 Presenter: Hillman Wirawan
 Co-author: Kadek Rahayu
 Advisor: Dr. Lisa Lieberman

Title: **Temporal framing (B63)**
Presenter: Andrew Wolfarth
Advisor: Dr. David Townsend

Title: **Alcohol use and non-medical use of prescription drugs to cope with posttraumatic stress: An analysis of Hurricane Sandy survivors (B64)**
Presenter: Megan Young
Advisor: Dr. Sarah Lowe

Title: **Analysis of roman mosaic glass tesserae, from the Villa of the Antonines, using scanning electron microscopy and energy-dispersive X-ray techniques (B65)**
Presenter: Nicolas Zarro
Co-author(s): Deborah Chatr Aryamontri, Greg Pope, Matthew Gorrington
Advisor: Dr. Greg Pope

Title: **Gender differences in attitudes, knowledge, and HIV testing in the Départements of Haiti: Insights from the 2012 demographic and health survey (B66)**
Presenter: Jonathan Zipf
Advisor: Dr. Sangeeta Parashar

Title: **Race bias in decisions to shoot: Physiological responses to immersive and non-immersive experimental shooter tasks (B67)**
Presenter: Chelsea Osuji
Advisor: Dr. Joseph Cesario

Title: **Assessment and target selection for a moderate-to-severe phonological disorder: Advantages of nonlinear analysis (B68)**
Presenter: Christa Crosby
Advisor: Dr. Elaine Hitchcock

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ACKNOWLEDGEMENTS

Many faculty, staff and students have contributed to the success of this event. The Organizing Committee would like to acknowledge the special contributions of the following:

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