



MONTCLAIR STATE
UNIVERSITY



Sixth Annual Student Research Symposium

Promoting Collaboration Across Disciplines

**Sunday, April 22, 2012
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 ♦ School of Business

Message from the Provost:



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

This event, with participants from all across the University, represents 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, technique, 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 chemist, a sociologist, a counselor, an accountant or economist, a filmmaker, a journalist, a lawyer, an art critic, 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 multidisciplinary 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 of 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 causes the fall of nations? What are stars? What is poetry good for?) or to previously undetected functions of nature (What is the protein expression sequence that triggers the formation of an eye in a mammalian fetus? How many terabytes can be packed into a cell phone and then what will you do with it? What weather patterns will change as the earth warms?).

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. You will find students from English, Education, Classics, and Political Science presenting on Authority and Resistance; students from Education, English, and Psychology presenting on Understanding the Process of Learning; and students from Environmental Studies, Business, and Political Science presenting on Business and the Environment. These are just three examples of the interdisciplinary collaboration you will see throughout the day.

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 dark ink, reading "Willard Gingerich". The signature is fluid and cursive, with a large, stylized "W" and "G".

Dr. Willard Gingerich
Provost and Vice President For Academic Affairs

Schedule

8:30 am – 9:00 am	Registration and Continental Breakfast University Hall Conference Center
9:00 am – 9:15 am	Opening Remarks – Dr. Willard Gingerich Provost and Vice President for Academic Affairs University Hall Conference Center
9:15 am – 10:15 am	Poster Session Block A University Hall Conference Center
10:25 am – 11:50 am	Oral and Multimedia Presentations Block A Room assignments listed in program
12:00 pm – 12:50 pm	Lunch and Keynote Address Student Center Ballrooms
1:00 pm – 2:25 pm	Oral and Multimedia Presentations Block B Room assignments listed in program
2:25 pm – 3:25 pm	Poster Session Block B University Hall Conference Center
3:35 am – 5:00 pm	Oral and Multimedia Presentations Block C Room assignments listed in program
5:00 pm	Award Presentations and Closing Remarks General Symposium Awards and Closing Remarks Outstanding Interdisciplinary Presentations and Posters University Hall 1020 College of Science and Mathematics Sigma Xi Awards University Hall Courtyard Lounge

Oral and Multimedia Presentations

Block A: 10:25 am – 11:50 am

1. Undergraduate Award Nominees – University Hall 2031

Moderator: Dr. Michael Kruge

Presenter: Darlene Kim Advisor: Dr. Jennifer Urban
Title: **The process of developing an interview protocol for qualitative data collection in a large scale mixed methods study**
Co-authors: Samantha Spencer, Kelly Panchoo, Michael Puccio, Stephanie Phelan, Marissa Burgermaster

Presenter: Celina Poggiogalle Advisor: Dr. Teresa Fiore
Title: **Foreigners at home: Cultural expression as agency for non-citizen Italian natives**

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Presenter: Daniel Trauam
 Title: **Factors influencing direct to consumer genetic testing in the U.S.A.**

Presenter: Kelly Vaghenas Advisor: Dr. Neil Baldwin
Title: **Danthropology: A new interdisciplinary after-school project in structured play**

2. Graduate Award Nominees – University Hall 2032

Moderator: Dr. Monica Taylor

Presenter: Brett V. Morgan
 Title: **Learning pattern's relationship to key events and lessons from college student leadership development experiences**

Presenter: Michael Pawlish
 Title: **Towards a next generation green data center**

Presenter: Jen Schiller
 Title: **Filling the cultural void: Toward a new young adult theatre**

Presenter: Kathryn Strom
 Title: **A year in the third space: The praxis of inquiry**
 Co-authors: Linda Abrams, Emily Klein, Monica Taylor, Cindy Onore

3. Removing Religion from the Public Schools – University Hall 2046

Moderator: Dr. Dorothy Rogers

Presenter: Chris Bartlett
Title: **The foundations of morality**

Presenter: Yiannis Floropoulos
Title: **The legality of religion in public education**

Presenter: Sabrina MisirHiralall
 Title: **Religion, morality and character education: Philosophy for children as an alternative**

4. Science and Politics of Water – University Hall 2025

Moderator: Dr. Gregory Pope

Presenter: Victor Henao
 Title: **Paleoproductivity of the Southern Ocean during the Middle Miocene Epoch**

Presenter: Leon Lider Advisor: Dr. Eric Forgoston
 Title: **Thermohaline circulation and its role in weather and climate**

Presenter: Lorraine Malkowitz Advisor: Dr. John Gaynor
 Title: **Sequencing of the β -actin gene from the sea nettle (*Chrysaora quinquecirrha*)**

Presenter: Michelle Pomponio Advisor: Dr. Gregory Pope
 Title: **The Colorado River Compact and the effects it has upon growing urban populations**

Presenter: Aslan Varoqua Advisor: Dr. Gregory Pope
 Title: **Problems and criticisms facing flood relief NGOs and how GIS can address corruption and improve efficiency**

5. Children and the Law – University Hall 2021

Moderator: Dr. Ian Drake

Presenter: Rachel DiGiacomo Advisor: Dr. Ian Drake
 Title: **Freedom of expression should be free of consequences**

Presenter: Janelly Landa Advisor: Avram B. Segall, Esq.
 Title: **New Jersey's Anti-Bullying Bill of Rights: The end to bullying in New Jersey?**

Presenter: Preeti Patel Advisor: Dr. Silvia C. Pastor
 Title: **Making social maladjustment and emotional disturbance one entity**
 Co-authors: Brittany Silverman

6. Understanding the Process of Learning – University Hall 2013

Moderator: Dr. Laura Lakusta

Presenter: Stephanie Chilingirian Advisor: Dr. Susana Sotillo
 Title: **The color coded conceptual model for a five paragraph essay**

Presenter: Daniel Fisherman Advisor: Dr. Maughn Gregory
 Title: **Mind education and active content**

Presenter: Shanique McGowan Advisor: Dr. Laura Lakusta
 Title: **Adults motion event representations: Memory of endpoints for accidental actions**

Presenter: Sita Patel Advisor: Dr. Anne Edstrom
 Title: **Why we choose to study a particular language**

7. Analyzing Myth – University Hall 2012

Moderator: Dr. Elizabeth Emery

Presenter: Antonio De Bari Advisor: Dr. Glen Gill
 Title: **Mythopoeia, mythology and fantasy in J. R. R. Tolkien's *The Silmarillion***

Presenter: John Turcich Advisor: Dr. Glen Gill
 Title: **"Tolk-lore": Folkloric motifs in Tolkien's *The Silmarillion***

Presenter: Catherine Winters Advisor: Dr. Elizabeth Emery
 Title: **The use of myth in modernist literature**

8. Mathematics Education – University Hall 2011

Moderator: Dr. Soo Jin Lee

Presenter: Nataly Chesky Advisor: Dr. Mark Weinstein
 Title: **Exploring a new framework for thinking about philosophy of mathematics education**

Presenter: Douglas Platt Advisor: Dr. Erin Krupa
Title: **Portrayal of mathematics students' conceptions of functions as viewed from various sources**

Block B: 1:00 pm – 2:25 pm

Moderator: Dr. Kate Noonan

Presenter: Daniel Traum **Advisor:** Dr. Sandra Adams
Title: **Inhibition of HSV by black tea polyphenols in cultured cells**

Moderator: Dr. Linda Gould Levine

Presenter: Jaime Paris Advisor: Dr. Linda Gould Levine
Title: **"Hemingway's shadow": Intertextuality in Javier Cercas' *The Speed of Light***

Moderator: Dr. Patrali Chatterjee

Presenter: Pamela Shirley Honores
 Title: **Consumer engagement with brands on Facebook**
 Co-author: Events Rene

Advisor: Dr. Patrili Chatterjee

Presenter: John Terry Advisor: Dr. Mayida Zaal
Title: **Youth participatory action researchers and their sense of self efficacy**

Presenter: Katherine Lynn Riabov
Title: **Community as the tragic hero in Shakespearean tragedies**

Advisor: Dr. Naomi Liebler

Presenter: Maria Vintimilla
Title: **Human cloning and the Fourteenth Amendment**

Presenter: Robert Wettengel Advisor: Dr. Brian Smith
Title: **Was Blitzkrieg an evolutionary or revolutionary doctrine?**

3. Environmental Business – University Hall 2025

Presenter: Catherine Alexander Advisor: Dr. Robert Taylor
Title: Urban agriculture's historical, current, and potential contributions to food security

Presenter: Anthony Ndiege
 Title: **Corporate disclosure patterns in sustainability reporting**

Presenter: Kevin Olsen
Title: **The net men and the anglers**

Presenter: Nadezhda Razumov Advisor: Avram B. Segall, Esq.
Title: **Legality of hydraulic fracturing under the Safe Drinking Water Act**

Presenter: Kristen Shah
 Title: **Branding strategy for green product brand extensions**

4. Multiculturalism and Global Issues - University Hall 2021
Moderator: Dr. Tyson Lewis

Presenter: Jacqueline Dauplaise
 Title: **How does the news media portray free primary education in Kenya?**

Presenter: Naz Onel
 Title: **The effects of national culture and human development on environmental health**
 Co-author: Avinandan Mukherjee

Presenter: Marta Pires Advisor: Dr. Tyson Lewis
Title: **The body as political discourse: An affective approach to children's rights**

Presenter: Gail Perry Ryder
 Title: **Advancing the social justice agenda in elementary and secondary schools by preparing candidates of color as culturally responsive teachers**
 Co-authors: Ana Maria Villegas, Tamara Lucas

Presenter: Lavina Sequeira
Title: ***Americans with a twist:*** Identity negotiation of second generation adolescents of Asian Indian descent

5. Authority and Resistance - University Hall 2013
Moderator: Dr. Melinda Knight

Presenter: Leonard Grant
Title: **Captain Cook's writing assignment**

Presenter: Gloria Lugo
 Title: **Muckrakers and the titans of industry: Elite cultural products of the guilded age and progressive era that champion corporate capitalism**

Presenter: Olivier Michaud
 Title: **Perspectives on educational authority**

Advisor: Dr. Kathryn Herr

Presenter: Alexandria Rossillo Advisor: Dr. Jean Alvarez
Title: **The hidden power of women in the Imperial Empire of Rome**

Advisor: Dr. Brian Smith

6. Business and Technology - University Hall 2012
Moderator: Dr. Mark Kay

Advisor: Dr. Aparna S. Varde

Advisor: Dr. Ian Drake

Presenter: Stefan Genzor Advisors: Drs. Hermann Sintim and Susana Yu
Title: **Stock research project**
Co-authors: Parth Shah, Francesco Colombo, Drew Heimlich, Michael Polifonte

Presenter: Avraham Groll Advisor: Dr. Mark Kay
Title: **Researching the membership characteristics of JewishGen.org**

Presenter: Roseanne Kautz
 Title: **Competitive analysis of online music retailers**
 Co-authors: Kyle Bellevue, Joey Cohen, Diego Garcia, Emily Goldberg, Kishan Patel

7. Feminism and Gender Issues in Education, Literature and Online - University Hall 2011
Moderator: Dr. Christopher McKinley

Presenter: Lauren Biondi Advisor: Dr. Christopher McKinley
Title: **Social support and identity construction in the online pro-anorexic community**

Presenter: Lucia Doyle Advisor: Dr. Venezia Michalsen
Title: **Reading between the lines: Deconstructing the feminist collective and publishing politics**

Presenter: Kathryn Strom
Title: **I am what I am not yet**
Co-authors: Linda Abrams, Rabab Abi Hanna, Sara Mastellone, Melissa Collucci, Jacqueline Dauplaise,
Nellista Bess, Charity Dacey

Presenter: Jill Schwarz Whittaker Advisor: Dr. Dana Heller Levitt
Title: **Utilizing a feminist empowerment model to create an impactful gender counseling course**

Presenter: Nikki Wittenburg Advisor: Dr. Monika Elbert
Title: **Edna's evolutionary prerogative: Taking the woman out of the attic and into nature**

8. Evaluation and Counselor Supervision – University Hall 2010
Moderator: Dr. Matthew Shurts

Presenter: Marissa Burgermaster
 Title: **Concept mapping research practice integration in the field of evaluation**
 Co-author: Thomas Archibald

Presenter: Daniel Cinotti
 Title: **The impact of current practices in school counselor supervision**

Presenter: Elizabeth Conte Advisor: Dr. Matthew Shurts
Title: Clinical supervision and the Transtheoretical Model: Integrating the stages of change into counselor supervision models

Presenter: Stephanie Phelan Advisor: Dr. Jennifer Urban
Title: **The Netway: A tool for building evaluation capacity, organizing program logic and bridging the research practice gap**
Co-authors: Darlene Kim, Marissa Burgermaster

9. History and Language – University Hall 2009

Moderator: Dr. Elizabeth Emery

Presenter: Michael Elices
Title: **Rome's use of political terror, 146BC – 378 AD**

Presenter: Travis Lancaster
 Title: **Paradox and contradiction in Samuel Beckett**

Presenter: Arian Murati
Title: "The worst can easily happen": A comparative analysis of Eugene Ionesco's *Rhinoceros* and Albert Camus' *Myth of Sisyphus*

Advisor: Dr. Elizabeth Emery

Presenter: Caitlin Popp Advisor: Dr. Anne Betty Weinshenker
Title: **Women, mortality and the demise of man: The *Messaline* series by Henri de Toulouse Lautrec**

Poster Presentations
Block A: 9:15 am – 10:15 am
(Alphabetical by Presenter)

Undergraduate Student Award Nominees for Poster Presentations

Title:	The physiological and therapeutic effects of superficial ice massage on bicipital tendinitis as compared to therapeutic ultrasound (A31)
Presenter:	Steve Dippel
Advisor:	Dr. Fredrick Gardin
Title:	Arabidopsis thaliana pleiotropic drug resistance plays an important role in root development (A35)
Presenter:	Elizabeth Y. Flores
Co-author:	Sang Won Han
Advisor:	Dr. Marcela Rojas Pierce
Title:	The effects of design as humans age (A7)
Presenter:	Lindsay Hescok
Advisor:	Dr. Denis Feigler
Title:	What are you on!? College students' substance utilization and spirituality levels (A5)
Presenter:	Afshan Ladha
Co-authors:	Anna Montenegro, Allen Teplitsky, Ofelia Rodriguez-Srednicki
Advisor:	Dr. Ofelia Rodriguez-Srednicki

Graduate Student Award Nominees for Poster Presentations

Title:	Modular automotive chassis using emerging materials to address safety and environmental issues (A4)
Presenter:	Anthony Fragola
Advisor:	Dr. Denis Feigler
Title:	Montclair State students' reflect on the impact of messages from school and home about sex on their first sexual experiences (A16)
Presenter:	Samantha Kwiatkowski
Co-authors:	Eva Goldfarb, Lisa Lieberman
Advisor:	Dr. Eva Goldfarb
Title:	Does smoking and drinking inhibit your ability to think (A11)
Presenter:	Jacquelin Mueller
Advisor:	Dr. Kate Nooner
Title:	Magnetic and sedimentologic analysis of a Late Holocene sediment core, Barilari Bay, Antarctica (A36)
Presenter:	Brendan Reilly
Co-authors:	Stefanie Brachfeld, Natalie Elking, Kyu Cheul Yoo, Eugene Domack, Amy Leventer, Caroline Lavoie, Scott Ishman
Advisor:	Dr. Stefanie Brachfeld

Title:	Crystal studies of metal quasiracemate complexes (A50)
Presenter:	Rohe Ahmad
Co-author:	Khusboo Hussain
Advisor:	Dr. Mark Whitener

Title: **The constitutional attack on DOMA (A37)**
 Presenter: Garth Andrews
 Advisor: Dr. Ian Drake

Title: **Population demographics of three turtle species of the New Jersey School of Conservation (A53)**
 Presenter: Linda Araya
 Co-authors: Tara Snyder, Paola Dolcemascolo, Kirsten Monsen-Collar, Lisa Hazard
 Advisor: Dr. Lisa Hazard

Title: **The Fourth Amendment and its protection to individuals arrested for a minor offense (A42)**
 Presenter: Kenny Barroso
 Advisor: Dr. Ian Drake

Title: **The success of the New Jersey Clean Energy Program and New Jersey's potential for biomass electricity (A18)**
 Presenter: Jessica Centinaro
 Advisor: Dr. Gregory Pope

Title: **Characterization of a c-Jun N- terminal kinase pathway in the parasitic nematode Brugia malayi (A10)**
 Presenter: Agnieszka Chojnowski
 Co-authors: Akruti Patel, Ronald Goldberg
 Advisor: Dr. John Siekierka

Title: **Analysis of the geochemical signatures of Vincennes Bay coastline sediments (A51)**
 Presenter: Thomas Clayton
 Co-author: Stefanie Brachfeld
 Advisor: Dr. Stefanie Brachfeld

Title: **Electrical potential in small scale fluid dynamics (A33)**
 Presenter: Michael Cohrs
 Advisor: Dr. Ashuwin Vaidya

Title: **Mouse genome wide characterization of multiple ICER binding sites (A46)**
 Presenter: Marni Crow
 Co-authors: Stephan Zichella, Luis Muniz
 Advisor: Dr. Carlos Molina

Title: **Langmuir monolayers of superparamagnetic nanoparticles (A19)**
 Presenter: Goran Dojcinovski
 Co-author: Joseph Fiordilino
 Advisor: Dr. Patrick Truitt

Title: **Investigating changes in diamondback terrapin nesting behavior and population structure in Jamaica Bay, New York (A1)**
 Presenter: Paola Dolcemascolo
 Advisor: Dr. Kirsten Monsen-Collar

Title: **Using GIS to measure historical changes in coastlines in southern New Jersey (A15)**
 Presenter: Lahra Dooner
 Advisor: Dr. Joshua Galster

Title: **Hedonic preference magnitude affected by context and categorization (A40)**
 Presenter: Matthew Forsythe
 Co-authors: Elizabeth Cogan, Scott Parker
 Advisor: Dr. Debra Zellner

Title: **Impact of immigration on the mental health status of Cuban Americans (A34)**
 Presenter: Veronica Franco
 Co-author: Milton Fuentes
 Advisor: Dr. Milton Fuentes

Title: **Analysis of violent crime and New Jersey gun control (A54)**
 Presenter: Eric Gazdalski
 Advisor: Dr. Ian Drake

Title: **Ethnic identity development among young adults from immigrant families (A58)**
 Presenter: Alexandra Gramescu
 Co-author: Nicole-Marie Helmstetter
 Advisor: Dr. Olena Nesteruk

Title: **Sex offender registries: An effective tool in reducing sex crimes? (A39)**
 Presenter: Ashley Hausmann
 Advisor: Dr. Ian Drake

Title: **The relationship between body position and attention/hemispheric activation (A8)**
 Presenter: Karly Hrank
 Co-author: Ashley Regina
 Advisor: Dr. Ruth Propper

Title: **Effects of ultrasonic treatment of coliforms (A41)**
 Presenter: Gabriel Jimenez
 Advisor: Dr. Meiyin Wu

Title: **Algebra professional development (A9)**
 Presenter: Glenn Kliemisch
 Advisor: Dr. Evan Fuller

Title: **Concrete petrography for assessing quality in newly built ramps for New York piers (A24)**
 Presenter: Joseph Kowalski
 Co-authors: Ali Gurhan, Stefanie Brachfeld
 Advisor: Dr. Stefanie Brachfeld

Title: **Can competition be used to induce an evolutionary arms race in a laboratory setting? (A25)**
 Presenter: Jonathan Lerner
 Advisor: Dr. Jennifer Krumins

Title: **Alcoholics Anonymous and the separation of church and state (A14)**
 Presenter: Alyra Liriano
 Advisor: Avram B. Segall, Esq.

Title: **Experimental validation of predicted ligand specificity determining residues in the dihydrofolate reductase family (A44)**
 Presenter: Michael Little
 Co-author: Nina M. Goodey
 Advisor: Dr. Nina M. Goodey

Title: **Immigration and Nationality Act (A29)**
 Presenter: Joan Malone
 Advisor: Dr. Ian Drake

Title: **Criminal defendants constitutional rights during police interrogations (A49)**
 Presenter: Jessica Mc Menemy
 Advisor: Dr. Ian Drake

Title: **Immunomodulation and zinc (II): Computer prediction and experimental confirmation (A47)**
 Presenter: Vaughn McEnough Jr.
 Co-author: Ralph Falen
 Advisor: Dr. Vladislav Snitsarev

Title: **A geo-spatial analysis of agro-tourism possibilities in N.J. (A52)**
 Presenter: Wendy Neill
 Advisor: Amy Ferdinand

Title: **Impacts of heavy metals on wetland methane flux and primary production (A28)**
 Presenter: Adam Piombino
 Advisor: Dr. Meiyin Wu

Title: **Path of counselor self-awareness (A56)**
 Presenter: Alyson Pompeo
 Advisor: Dr. Dana Heller Levitt

Title: **The effect of solvent polarity on the emission spectrum of 5, 10 methenyltetrahydrofolic acid (A3)**
 Presenter: Ivana Prokopova
 Advisor: Dr. Johannes Schelvis

Title: **Organic architecture (A45)**
 Presenter: David Purdy
 Advisor: Dr. Gregory Pope

Title: **A synchrotron study of heavy metal transportation in the root of *Typha latifolia* (A30)**
 Presenter: Yu Qian
 Co-author: Huan Feng
 Advisor: Dr. Huan Feng

Title: **Solitary confinement: Cruel and unusual punishment of the mentally ill (A20)**
 Presenter: Sharina Rodriguez
 Advisor: Dr. Marilyn Tayler

Title: **MSU GOALS Survey: Serving the student athlete (A17)**
 Presenter: Andrea Rydel
 Advisor: Dr. Kim C. O'Halloran

Title: **Binding studies of the p38 MAP kinase inhibitor, BIRB 796, to the *Leishmania mexicana* protein kinase, Lmx MPK1(A21)**
 Presenter: Aysenur Sayakci
 Co-authors: Tamara Waffenschmidt Kreiss, Seema Patel
 Advisors: Dr. Nina M. Goodey, Dr. John Siekierka

Title: **Assessing mercury concentrations in New Jersey's diamondback terrapins (*Malaclemys Terrapin*) (A43)**
 Presenter: Natalie Sherwood
 Advisor: Dr. Meiyin Wu

Title: **Marine ecotourism and coral reefs in Turks and Caicos Islands: A symbiotic or predatory relationship? (A26)**
 Presenter: Christina Soman
 Advisor: Dr. Neeraj Vedwan

Title: **Comprehension and production of goal and source prepositions in infants (A22)**
 Presenter: Megan Sommer
 Advisor: Dr. Laura Lakusta

Title: **Manipulation of graphene oxide through electroless gold plating technique and its analysis for potential applications (A13)**
 Presenter: Keun Soo Kwon
 Advisor: Dr. Shifeng Hou

Title: **Challenging the pre-clearance provision of the Voting Rights Act (A2)**
 Presenter: Angela Soria
 Advisor: Dr. Marilyn Tayler

Title: **The case for same sex marriage: The coming of age of the Due Process and Equal Protection Clauses of the Constitution (A57)**
 Presenter: Katherine Sosa
 Advisor: Avram B. Segall, Esq.

Title: **The mission in admissions (A48)**
 Presenter: Elisa Toturgul
 Co-authors: Charity Dacey, Tina Jacobowitz, Patricia Watson
 Advisor: Dr. Tina Jacobowitz

Title: **Tracing the origin of fine grained sediment using radionuclides (A32)**
 Presenter: Anita Trajkovska
 Co-authors: Joshua Galster, Huan Feng
 Advisor: Dr. Joshua Galster

Title: **Oil shale in the Green River Formation and new methods to mitigate the environmental costs of its extraction (A38)**
 Presenter: Aslan Varoqua
 Co-author: Stefanie Brachfeld
 Advisor: Dr. Stefanie Brachfeld

Title: **Investigating contextual query reformulation with SWUM based software search (A6)**
 Presenter: Manuel Roldan Vega
 Advisor: Dr. Emily Hill

Title: **Relationship between motor movements and memory (A55)**
 Presenter: Michael Weiss
 Co-authors: Sean McGraw, Karly Hrank, Eric Phenix, Ashley Regina
 Advisor: Dr. Ruth Propper

Title: **Interaction of photolyase with damaged DNA (A12)**
 Presenter: Kyle Williams
 Advisor: Dr. Johannes Schelvis

Title: **Human population and its environmental impact (A27)**
 Presenter: Salvatore Zerbo III
 Co-authors: Anita Trajkovska, Ben Witherell, Dainlin Yu, Deng Yang, Huan Feng
 Advisor: Dr. Huan Feng

Title: **Temperature dependence of the catalytic scheme of IGPS from *S. solfataricus* (A23)**
 Presenter: Alexandra Zumba
 Co-authors: Pamela Delaney, Nina M. Goodey
 Advisor: Dr. Nina M. Goodey

Poster Presentations

Block B: 2:25 pm – 3:25 pm

(Alphabetical by Presenter)

- Title: **Sum and product connectivity indices of single cyclohexane compounds (B1)**
Presenter: Katrina Bandeli
Advisor: Dr. Aihua Li
- Title: **Stereoselective electrophilic fluorination of chiral lactam rings (B6)**
Presenter: Robert Barrows
Advisor: Dr. David Konas
- Title: **Investigating a potential link between droughts and West Nile Virus activity (B7)**
Presenter: Christine Barton
Advisor: Dr. Joshua Galster
- Title: **The expression and purification of Nck. (B37)**
Presenter: Mary Carter
Advisor: Dr. Quinn Vega
- Title: **Whole current changes in response to change in extracellular pH and application of Iberiotoxin in cultured rat glia (B53)**
Presenter: Paul Castellano
Co-author: Michael Young
Advisor: Dr. Elena Petroff
- Title: **Wake structure of oscillating cylinders (B58)**
Presenter: Michael Cohrs
Co-author: Wayne Ernst
Advisor: Dr. Ashuwin Vaidya
- Title: **Hydraulic conductance limitations in herbaceous plants (B40)**
Presenter: Lisa Davies
Advisor: Dr. Dirk Vanderklein
- Title: **Perceptions of writing center consultants towards online writing consultation (B29)**
Presenter: Janet Dengel
Advisor: Dr. Melinda Knight
- Title: **Availability and accessibility of organic foods: An environment analysis of Bloomfield Avenue, Montclair, N.J. (B30)**
Presenter: Dawn Diamond
Advisor: Dr. Amanda Birnbaum
- Title: **Herpes simplex virus-1 viral induced apoptosis in Vero cells treated with theaflavins (B42)**
Presenter: Samantha Dickon
Advisor: Dr. Sandra Adams
- Title: **An asymmetry between goal and source in infants' representations of motion events (B20)**
Presenter: Stephanie DiFabrizio
Advisor: Dr. Laura Lakusta
- Title: **Shedding light on black holes: How orbiting stars illuminate the darkness (B31)**
Presenter: Goran Dojcinovski
Advisor: Dr. Mary Lou West

Title: **Spiral stairway to heaven (B8)**
 Presenter: Wayne Ernst
 Co-author: Jonathan Cutler
 Advisor: Dr. Ashuwin Vaidya

Title: **Acclimation of Eurasian water milfoil (*Myriophyllum spicatum*) to saline conditions (B44)**
 Presenter: Marco Finocchiaro
 Advisor: Dr. Meiyin Wu

Title: **Adolescents and post-traumatic stress disorder (B34)**
 Presenter: Omaris Garcia
 Co-author: Rachel Kramer
 Advisor: Dr. Kate Nooner

Title: **Animal resemblance elicits disgust for vegan food products (B4)**
 Presenter: Irina Gavdanovich
 Co-author: Shana Adise
 Advisor: Dr. Debra Zellner

Title: **Revitalizing life purpose: Career counseling strategies with older adults (B22)**
 Presenter: John Grady
 Co-author: Marcela Kepicova
 Advisor: Dr. Catherine Roland

Title: **Biomechanics of cilia and wings (B16)**
 Presenter: Pamela Guerron
 Co-author: Danny Barry
 Advisor: Dr. Ashuwin Vaidya

Title: **The role of gamma glutamylcysteine synthetase in reactive oxygen species mediated stress pathway in the parasite *Brugia malayi* (B28)**
 Presenter: Lina Halawani
 Advisor: Dr. John Siekierka

Title: **Muon absorption in different structures of varying materials and age (B33)**
 Presenter: Guillermo Hernandez
 Advisor: Dr. Mary Lou West

Title: **Family and design in the CHI and IDC communities (B2)**
 Presenter: Sara Isola
 Co-author: Jerry Alan Fails
 Advisor: Dr. Jerry Alan Fails

Title: **Analysis of the transcriptional regulation of RET isoforms (B38)**
 Presenter: Binta Jalloh
 Co-author: Joan Soon
 Advisor: Dr. Quinn Vega

Title: **Hedonic context effects for food presented in a meal (B46)**
 Presenter: Monica Jimenez
 Co-authors: David Rodriguez, Matthew Forsythe, Armand Cardello, Michael Nestrud
 Advisor: Dr. Debra Zellner

Title: **Rims and mantles in chondritic meteorites (B51)**
 Presenter: Travis Keeler
 Advisor: Dr. Mary Lou West

Title: **There's only one first time: Montclair State students reflect on their planning for and experiences of first sex (B32)**
 Presenter: Samantha Kwiatkowski
 Advisor: Dr. Eva Goldfarb

Title: **Assessment of bloom forming cyanobacteria and algae in selected New Jersey lakes (B49)**
 Presenter: Stephanie Lear
 Advisor: Dr. Meiyin Wu

Title: **Phonetic convergence to foreign accented speech (B19)**
 Presenter: Eva Lewandowski
 Co-author: Jennifer Pardo
 Advisor: Dr. Jennifer Pardo

Title: **Formation of disinfection byproducts during chlorination of landfill leachate (B14)**
 Presenter: Nanzhu Li
 Co-author: Yang Deng
 Advisor: Dr. Yang Deng

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Dr. Carlos Molina, College of Science and Mathematics
Dr. Avinandan Mukherjee, School of Business
Dr. Elena Petroff, College of Science and Mathematics
Dr. Ronald Sharps, College of the Arts

Awards:

Dr. Luis Montesinos, College of Humanities and Social Sciences (Chair)
Dr. Glen Gill, College of Humanities and Social Sciences
Dr. Erik Jacobson, College of Education and Human Services
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Dr. Kate Nooner, College of Humanities and Social Sciences
Dr. Lynn Schneemeyer, College of Science and Mathematics
Dr. Ronald Sharps, College of the Arts

About the Keynote Speaker:



Dr. Charles H. Sullivan
*Program Director
National Science Foundation*

Dr. Sullivan earned a BA in Zoology from the University of Maine at Orono and graduate degrees from the University of Maryland, College Park. After a postdoctoral fellowship in developmental biology at the University of Virginia, Dr. Sullivan joined the Department of Biology at Grinnell College in Iowa. During his 25-year career, he taught courses in introductory biology, cell biology, and developmental biology and supervised nearly 100 independent projects ranging from guided readings to lab-based research on lens formation in chicken embryos. He has studied at the Bermuda Biological Station and the Marine Biological Laboratory in Woods Hole, MA and taken sabbatical leaves at Montana State University and George Washington University Medical Center. Dr. Sullivan is currently serving as a Program Director at the National Science Foundation helping to manage several programs designed to improve undergraduate biology education.

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College of Humanities and Social Sciences

Dr. Marietta Morrissey, Dean

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College of Science and Mathematics

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Ms. Susan Brunda

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Ms. Melissa Harris

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Mr. Gregg Festa, Director

ADP Center for Teacher Preparation and Learning Technologies

Mr. Joe Russo, Coordinator

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