



**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 black ink that reads "Willard Gingerich". The signature is fluid and cursive, written in a professional style.

Dr. Willard Gingerich  
Provost and Vice President For Academic Affairs

## Schedule

8:30 am – 9:00 am	<b>Registration and Continental Breakfast</b> University Hall Conference Center
9:00 am – 9:15 am	<b>Opening Remarks – Dr. Willard Gingerich</b> Provost and Vice President for Academic Affairs University Hall Conference Center
9:15 am – 10:15 am	<b>Poster Session Block A</b> University Hall Conference Center
10:25 am – 11:50 am	<b>Oral and Multimedia Presentations Block A</b> Room assignments listed in program
12:00 pm – 12:50 pm	<b>Lunch and Keynote Address</b> Student Center Ballrooms
1:00 pm – 2:25 pm	<b>Oral and Multimedia Presentations Block B</b> Room assignments listed in program
2:25 pm – 3:25 pm	<b>Poster Session Block B</b> University Hall Conference Center
3:35 am – 5:00 pm	<b>Oral and Multimedia Presentations Block C</b> Room assignments listed in program
5:00 pm	<b>Award Presentations and Closing Remarks</b>  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













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

### **3. Environmental Business – University Hall 2025**

**Moderator: Dr. Robert Taylor**

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

Presenter: Anthony Ndiege Advisor: Dr. Avinandan Mukherjee  
Title: **Corporate disclosure patterns in sustainability reporting**

Presenter: Kevin Olsen Advisor: Dr. Michael Kruge  
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 Advisor: Dr. Patrali Chatterjee  
Title: **Branding strategy for green product brand extensions**

### **4. Multiculturalism and Global Issues – University Hall 2021**

**Moderator: Dr. Tyson Lewis**

Presenter: Jacqueline Dauplaise Advisor: Dr. Rebecca Goldstein  
Title: **How does the news media portray free primary education in Kenya?**

Presenter: Naz Onel Advisor: Dr. Avinandan Mukherjee  
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 Advisor: Dr. Ana Maria Villegas  
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 Advisor: Dr. Jeremy Price  
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 Advisor: Dr. Melinda Knight  
Title: **Captain Cook’s writing assignment**

Presenter: Gloria Lugo Advisor: Dr. Melinda Knight  
Title: **Muckrakers and the titans of industry: Elite cultural products of the guided age and progressive era that champion corporate capitalism**

Presenter: Olivier Michaud Advisor: Dr. Kathryn Herr  
Title: **Perspectives on educational authority**

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

Presenter: Bethanne Sonne Advisor: Dr. Brian Smith  
Title: **What challenges modern tyranny?**

## **6. Business and Technology – University Hall 2012**

**Moderator: Dr. Mark Kay**

Presenter: Shireesha Chandra Advisor: Dr. Aparna S. Varde  
Title: **Data processing in the cloud using Hive**

Presenter: Andrew Costello Advisor: Dr. Ian Drake  
Title: **Legal and political implications of internet censorship**

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 Advisor: Dr. Patrali Chatterjee  
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 Advisor: Dr. Monica Taylor  
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 Advisor: Dr. Jennifer Urban  
Title: **Concept mapping research practice integration in the field of evaluation**  
Co-author: Thomas Archibald

Presenter: Daniel Cinotti Advisor: Dr. Larry Burlew  
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  
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**  
Advisor: Dr. Brian Smith

Presenter: Travis Lancaster  
Title: **Paradox and contradiction in Samuel Beckett**  
Advisor: Dr. Elizabeth Emery

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

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

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**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 Hescocock  
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
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**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
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- 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: Akruiti 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 Dojcinoski  
 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 Dojcinoski  
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

Title: **Beyond behavior: Exploring implications of the invisibility syndrome on African American preschoolers in urban settings (B45)**  
 Presenter: Anna Flores Locke  
 Advisor: Dr. Muninder K. Ahluwalia

Title: **The notion of source in adults' linguistic event representations (B18)**  
 Presenter: Hila Lutz  
 Co-authors: Donna Batraki, Jennifer Fandino, Lauren Muniz  
 Advisor: Dr. Laura Lakusta

Title: **Structural effects of the damage and repair of DNA (B3)**  
 Presenter: Kyle Mack  
 Advisor: Dr. Johannes Schelvis

Title: **Safety first (B41)**  
 Presenter: Maria Manansala  
 Co-author: Neysi Gonell  
 Advisor: Dr. Archana Kumar

Title: **Socioeconomic status and environmental hazards: A comprehensive review of the Lower Passaic River (B52)**  
 Presenter: Anthony Marrone  
 Advisor: Dr. Gregory Pope

Title: **Effectiveness of biological control agent *Galerucella* on purple loosestrife (*Lythrum salicaria*) (B11)**  
 Presenter: Merari Mejia  
 Advisor: Dr. Meiyin Wu

Title: **Eating disorders: Understanding the process of counseling adolescent females (B55)**  
 Presenter: Jennifer Midura  
 Co-author: Justine Galasso  
 Advisor: Dr. Harriet Glossoff

Title: **Impulsive behaviors and depression: Does mood matter? (B50)**  
 Presenter: Morgan Minns  
 Advisor: Dr. Kate Nooner

Title: **Removal of heavy metals from polluted stormwater runoff using two solid waste based sorbents, water treatment residuals and scrap tire (B15)**  
 Presenter: Ciapha Morris  
 Co-authors: Yang Deng, Didyendu Sarkar, Sudipta Rakshit  
 Advisor: Dr. Yang Deng

Title: **Recurrence and thermalization in the Zabusky Kruskal lattice (B54)**  
 Presenter: Garrett Nieddu  
 Co-author: A. David Trubatch  
 Advisor: Dr. A. David Trubatch

Title: **Diversity within LGBT college student populations: Counselors & student affairs professionals as advocates (B48)**  
 Presenter: Nicole Pacheco  
 Co-authors: Julia Mazzarella, Jane Rheineck  
 Advisor: Dr. Catherine Roland

Title: **Counseling adolescents & parents: Good practices in social networking (B43)**  
 Presenter: Joseph Placenti  
 Co-author: Amy Ronquillo  
 Advisor: Dr. Harriet Glossoff

Title: **Non-Newtonian behavior of magnetized ferrofluids revealed by high speed x-ray phase contrast imaging (B56)**  
 Presenter: Joy Prescod  
 Co-authors: Alexander Cali, Samuel Nunez  
 Advisor: Dr. Philip Yecko

Title: **Statistical analysis of the effects of glucose, fructose and pH on proliferation and activation of T-cells (B9)**  
 Presenter: Francis X. Reilly  
 Co-authors: Haiyan Su, Vladislav Snitsarev  
 Advisor: Dr. Haiyan Su

Title: **Comparison of effectiveness between ice bag with compression and contrast treatments on a quadriceps contusion (B35)**  
 Presenter: Johnny Rodriguez  
 Advisor: Dr. Fredrick Gardin

Title: **Effects of inundation on tidal salt marsh soil (B10)**  
 Presenter: Justin Sabas  
 Advisor: Dr. Meiyin Wu

Title: **Isolation and characterization of novel *Mycobacterium smegmatis* bacteriophage (B24)**  
 Presenter: Mary Salim  
 Co-authors: Monica Binsol, Shannon Ely, Woderyelesh Kassa, Zenab Khan, Michael Majekodunmi, Diane Marcillo, Renee Marcoux, Kevin Ndukwe, Valerie Paschalis, Shivani Patel, Abigail Silva, Jose Villagomez, Ling Tiffany Wong  
 Advisors: Dr. Sandra Adams and Dr. Kirsten Monsen-Collar

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Title: **The influence of diphenhydramine and caffeine on embryonic development and reproductive success of freshwater snails (B25)**  
 Presenter: Diana Sanchez  
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Title: **I can't get no motivation: Understanding factors that impact academic performance (B5)**  
 Presenter: Jeffrey Saravia  
 Co-authors: Milton Fuentes, Fernando Campusano, Afshan Ladha, Melissa Le, Anna Montenegro, Michelle Truffin  
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 Presenter: Amanda Scarpa  
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 Co-authors: Dana Richardson, Jaclyn Cirello  
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Title: **Child and adolescent victims of incest: A review of treatment approaches (B39)**  
 Presenter: Melissa Stackpole  
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Zerbo, Sal  
Co-author · 19  
Zichella, Stephan  
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## Acknowledgements

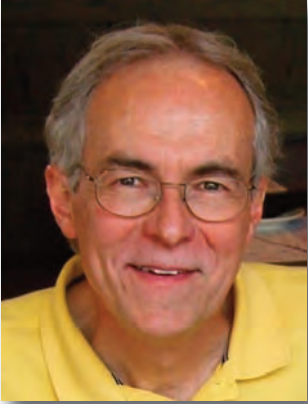
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Dr. Lynn Schneemeyer, College of Science and Mathematics  
Dr. Ronald Sharps, College of the Arts

# 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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