Seventh Annual
Student Research Symposium

Promoting Collaboration Across Disciplines

Saturday, April 20, 2013 | 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 | The Graduate School

MONTCLAIR STATE UNIVERSITY
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, 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 life-long 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 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 is a just society? What does war cost? How should we educate our children?) or to previously undetected functions of nature (What neurological conditions in the brain generate consciousness and how many kinds of human consciousness are there? How does instinct teach a bird to build a nest? What exact conditions trigger an earthquake in a specific place?).

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 Family and Child Studies, French, Jurisprudence and Environmental Management presenting on Gender Issues in Society; students from Counseling, Psychology and Linguistics presenting on Language; and students from Classics, Humanities and Political Science and Law presenting on War and Myth. 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.

Dr. Willard Gingerich
Provost and Vice President For Academic Affairs
Faculty Panelists:

Moderator:
Dr. Christopher McKinley
Assistant Professor, School of Communication and Media, College of the Arts

Dr. Stephanie Silvera
Associate Professor, College of Humanities and Social Sciences
Dr. Silvera specializes in cancer epidemiology focusing on racial and ethnic disparities in cancer outcomes as well as dietary risk factors. Focusing on the behavioral impacts of diet, health care and physical activity, she aims to encourage community members of all races to become advocates for their own health and to feel comfortable and confident connecting with the medical community. In addition, Dr. Silvera concentrates on social epidemiology and what effects individuals can have on their communities and vice versa. The National Institutes of Health (NIH) recently awarded Dr. Silvera with the National Cancer Institute’s Mentored Research Scientist Development Award. She received a doctorate from Yale University and a master’s degree from Rutgers University.

Acknowledgements

Proposal Review:
Dr. Yasemin Besen-Cassino
College of Humanities and Social Sciences
Dr. Elizabeth Emery
College of Humanities and Social Sciences
Dr. Marc Favata
College of Science and Mathematics
Dr. Josh Gaister
College of Science and Mathematics
Dr. Erik Jacobson
College of Education and Human Services
Dr. Meena Mahadevan
College of Education and Human Services
Dr. Jamaal Matthews
College of Education and Human Services
Dr. John McGinnis
School of Business
Dr. Christopher McKinley
College of the Arts
Dr. Avinandan Mukherjee
School of Business
Dr. Greg Pope
College of Science and Mathematics
Dr. Ronald Sharps
College of the Arts
Dr. Haiyan Su
College of Science and Mathematics
Dr. Dirk Vanderklein
College of Science and Mathematics

Awards:
Dr. Luis Montesinos (Chair)
College of Humanities and Social Sciences
Dr. Eric Forgoston
College of Science and Mathematics
Dr. Laura Lakusta
College of Humanities and Social Sciences
Dr. Yam Limbu
School of Business
Dr. Meena Mahadevan
College of Education and Human Services
Dr. John McGinnis
School of Business
Dr. Christopher McKinley
College of the Arts
Dr. Avinandan Mukherjee
School of Business
Dr. Eric Forgoston
College of Science and Mathematics
Dr. Ronald Sharps
College of the Arts
Dr. Angela Sheely-Moore
College of Education and Human Services
Dr. Claire Taub
The Graduate School
Schedule

8:30 am – 9:00 am  **Registration and Continental Breakfast**  
University Hall Grand Hallway, 1st Floor

9:00 am – 9:10 am  **Opening Remarks – Dr. Willard Gingerich**  
Provost and Vice President for Academic Affairs  
University Hall Room 1070

9:10 am – 9:40 am  **Interdisciplinary Panel Presentation**  
Montclair State University Faculty Members  
University Hall Room 1070

9:45 am – 10:45 am  **Poster Session Block A**  
University Hall Conference Center, 7th Floor

10:50 am – 12:15 pm  **Oral and Multimedia Presentations Block A**  
Room assignments listed in program

12:15 pm – 12:45 pm  **Lunch**  
Student Center Ballroom

1:00 pm – 2:25 pm  **Oral and Multimedia Presentations Block B**  
Room assignments listed in program

2:35 pm – 4:00 pm  **Oral and Multimedia Presentations Block C**  
Room assignments listed in program

4:00 pm – 5:00 pm  **Poster Session Block B**  
University Hall Conference Center, 7th Floor

5:00 pm  **Award Presentations and Closing Remarks**  
General Symposium Awards and Closing Remarks  
Outstanding Interdisciplinary Presentations and Posters  
University Hall 1070

College of Science and Mathematics - Sigma Xi Awards  
University Hall Room 1070
Oral and Multimedia Presentations
Block A: 10:50 am – 12:15 pm

1. Graduate Award Nominees – University Hall 3054
Moderator: Dr. Laura Lakusta

Presenter: Khalil Abdulnour
Title: CFA Institute Research Challenge - Investment analysis of Microsoft
Co-authors: Max Felderhoff, Vilma de los Angeles Solano Jarquin, Richard Jimenez, Mariusz Brzyzek
Advisor: Dr. Richard Lord

Presenter: Kristi Delfino
Title: The effect of colonial language policies on women in South America and North Africa
Advisor: Dr. Lois Oppenheim

Presenter: Stephanie Phelan
Title: An exploratory analysis of 4-H program logic models
Advisor: Dr. Jennifer Brown Urban

Presenter: Tanya Sulikowski
Title: Are landscape characteristics within riparian corridors or watershed basins better predictors of macroinvertebrate assemblages in three northern New Jersey watersheds?
Advisor: Dr. Meiyin Wu

Presenter: Shunda Wallace
Title: Schizophrenia and depression: A non-pharmacological approach to treating crippling psychosis and debilitating rumination (An interdisciplinary study)
Advisor: Dr. Christopher McKinley

2. Undergraduate Award Nominees – University Hall 3052
Moderator: Dr. Christopher McKinley

Presenter: Samantha Iovino
Title: World readiness
Co-authors: Douglas Murray, Charles Feldman
Advisor: Dr. Douglas Murray

Presenter: Nadia Shaikh
Title: How healthy is your community? The role of access and economics on perceptions of health
Co-authors: Margeurite Bonadies, Talia Philippsborn, Diana Cabezas, Drew Heimlich, Joseph Nwokocha, Ksenia Lebedeva, Anderson Mata
Advisor: Dr. Deborah Ragin

Presenter: Kelly Vaghenas
Title: The music of the spheres: A constellation of Renaissance ideas in art and science
Advisors: Dr. Naomi Liebler, Dr. Linda Roberts

3. An Indisciplinary Examination of Immigration, Adoption, Disaster and Child Abuse
University Hall 3050
Moderator: Dr. Melinda Knight

Presenter: Gloria Lugo
Title: Discourses on immigration: Explicit dangers and implicit solutions in 1890s American literature
Advisor: Dr. Melinda Knight

Presenter: Jonathan Mazza
Title: The stigma of adoption and relinquishment: A model of adoption microaggressions
Co-authors: Elliott Harrington, Andrew Kitchen
Advisor: Dr. Amanda Baden

Presenter: Sofia Saieh
Title: Through a child’s eyes: A look at the aftermath of Haiti’s 2010 earthquake
Advisor: Dr. Michele Cascardi

Presenter: Marvi Toqeer
Title: Federal Rule of Evidence 702
Advisor: Dr. Ian Drake
### 4. Issues in Jurisprudence: Criminal Informant System, Drug Dogs, Solitary Confinement, Physician Assisted Suicide and Tort Reform – University Hall 3048
**Moderator:** Dr. Ian Drake

<table>
<thead>
<tr>
<th>Presenter</th>
<th>Title</th>
<th>Advisor</th>
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<tbody>
<tr>
<td>Christina Deleasa</td>
<td>Death with dignity</td>
<td>Dr. Ian Drake</td>
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<td>Douglas Pannone</td>
<td>Solitary confinement: A violation of the United States Constitution</td>
<td>Dr. Ian Drake</td>
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<td>Christina Rodriguez</td>
<td>Tort reform: Who is to benefit?</td>
<td>Dr. Ian Drake</td>
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<td>Allana Skarzynski</td>
<td>An ethical and legal look at the criminal informant system</td>
<td>Dr. Ian Drake</td>
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<td>Svjetlana Tesic</td>
<td>Drug dogs and the Fourth Amendment: Where is the line drawn?</td>
<td>Dr. Ian Drake</td>
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### 5. Ecology Issues in NJ Water Systems – University Hall 3046
**Moderator:** Dr. Lee Lee

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<thead>
<tr>
<th>Presenter</th>
<th>Title</th>
<th>Advisor</th>
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<tbody>
<tr>
<td>Christie Castellano</td>
<td>An assessment of gelatinous zooplankton and impacts on planktonic community structure in Barnegat Bay, New Jersey</td>
<td>Dr. Paul Bologna</td>
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<tr>
<td>Alexandra Peri</td>
<td>Identification and quantification of Escherichia coli and coliforms in Northern New Jersey bodies of water</td>
<td>Dr. Lee Lee</td>
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<td>Dena Restaino</td>
<td>QPCR based assay for the temporal and spatial distribution of early life history stages of Chrysaora quinquecirrha in Barnegat Bay</td>
<td>Dr. John Gaynor</td>
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<td>George Shchegolev, Victoria Lussier, Paul Bologna, John Gaynor</td>
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### 6. Exercise, Health and Nutrition Research – University Hall 3012
**Moderator:** Dr. Steven Leigh

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<thead>
<tr>
<th>Presenter</th>
<th>Title</th>
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<tr>
<td>Christopher Bellon</td>
<td>A comparison of lower back muscle activity &amp; load between a unilateral and a bilateral squat exercise</td>
<td>Dr. Steven Leigh</td>
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<td>Mary Khanjian</td>
<td>Designing an active dynamic warm-up to decrease the likelihood of injury in recreational youth athletes</td>
<td>Dr. Steven Leigh</td>
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<td>J. R. Gambino</td>
<td>The sociopolitical application of the Slow Food movement</td>
<td>Dr. Antoinette Pole</td>
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<td>Casey Schuckers</td>
<td>An exploratory study of food safety and food handling: Examining ready-to-eat foods in independent delicatessen operations</td>
<td>Dr. Douglas Murray</td>
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<tr>
<td>Douglas Murray, Charles Feldman, Lee Lee</td>
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7. **Advances in Chemistry I - University Hall 3008**  
**Moderator:** Dr. Johannes Schelvis  
**Presenter:** Kyle Mack  
**Title:** Investigation of the structure and properties of UV-irradiated DNA photoproducts  
**Advisor:** Dr. Johannes Schelvis  

**Presenter:** Ivana Prokopova  
**Title:** Spectroscopic analysis of 5, 10-methenyltetrahydrofolic acid in protein environment and in solvents of various polarities  
**Advisor:** Dr. Johannes Schelvis  

**Presenter:** Kyle Williams  
**Title:** Spectroscopic investigation of the interaction of FADH* in DNA photolyase with UV-damaged DNA  
**Advisor:** Dr. Johannes Schelvis  

8. **Clinical Supervision and Leadership Studies - University Hall 3006**  
**Moderator:** Dr. Harriet Glosoff  
**Presenter:** Cynthia Bankowski  
**Title:** Building strong leaders: The role of non-traditional leadership preparation programs in developing inclusive and instructional leaders  
**Advisor:** Dr. Katrina Bulkley  
**Co-authors:** Katrina Bulkley, Suzanne McCotter  

**Presenter:** Daniel Cinotti  
**Title:** The relationship between aspects of supervision and school counselor self-efficacy  
**Advisor:** Dr. Larry Burlew  

**Presenter:** Elizabeth Conte  
**Title:** Addiction counselor self-efficacy in clinical supervision  
**Advisor:** Dr. Harriet Glosoff  

9. **Gender Issues in Society - University Hall 3004**  
**Moderator:** Dr. Elizabeth Emery  
**Presenter:** Mame Kani Diop  
**Title:** Exploring the issue of female genital mutilation in the global debate  
**Advisor:** Dr. Pearl Stewart  

**Presenter:** Isabella Dougan  
**Title:** Women’s rights and the department stores of Paris 1870-1914  
**Advisor:** Dr. Elizabeth Emery  

**Presenter:** Inha Kang  
**Title:** Rape shield laws: Combating the sexist nature of the American legal system  
**Advisor:** Dr. Ian Drake  

**Presenter:** Marisa Morrison  
**Title:** Shakespeare’s educated women  
**Advisor:** Dr. Naomi Liebler  

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**Oral and Multimedia Presentations**  
*Block B: 1:00 pm – 2:25 pm*  

1. **Current Issues in Teaching and Teaching Preparation - University Hall 3054**  
**Moderator:** Dr. Mika Munakata  
**Presenter:** Brenna Bohny  
**Title:** Teachers’ concerns about technology integration: A review of the literature  
**Advisor:** Dr. Helenrose Fives  

**Presenter:** Charity Dacey  
**Title:** Compensation and benefits for cooperating teachers: A multi-national investigation  
**Advisor:** Dr. Helenrose Fives  
**Co-authors:** Helenrose Fives, Tammy Mills  

**Presenter:** Eliza Leszczynski  
**Title:** The nature of mathematics and science connections of middle school teachers in the GK-12 Program  
**Advisor:** Dr. Mika Munakata
2. Interdisciplinary Approaches to Helping and Healing: Counseling, Child Advocacy and Music - University Hall 3052
Moderator: Cathy Brown, Esq.

**Presenter:** Beck Bagnato
**Advisor:** Cathy Brown, Esq.
**Title:** Self-injury: An invisible epidemic

**Presenter:** Nadia Kwaja
**Advisor:** Dr. Jennifer Brown Urban
**Title:** Youth with severe emotional disturbance disorders: A step towards successful transition into adulthood

**Presenter:** Meghan Reppert
**Advisor:** Dr. Harriet Glosoff
**Title:** Providing effective career counseling to female veterans
**Co-authors:** Julia Mazzarella, Marcela Kepicova

**Presenter:** Pamela Schuller
**Advisor:** Cathy Brown, Esq.
**Title:** What makes you tic?

**Presenter:** Scott Ziegler
**Advisor:** Dr. Marissa Silverman
**Title:** Music in the place of disaster

3. Music, Art and Society: Exploring Historical, Cultural and Emotional Perspectives
   University Hall 3050
   Moderator: Dr. Marissa Silverman

**Presenter:** Scott Eggert
**Advisor:** Dr. Dean Drummond
**Title:** Musica universalis: From the Lambdona of Pythagoras to the tonality diamond of Harry Partch

**Presenter:** Andre Fludd
**Advisor:** Dr. Marissa Silverman
**Title:** Classical Indian music tradition in the 21st century global world

**Presenter:** Rachel Friedberger
**Advisor:** Dr. Marissa Silverman
**Title:** More than aural cheesecake: A neurobiology of musical affect

**Presenter:** Rebecca Olderman
**Advisor:** Dr. Elizabeth Valdez del Alamo
**Title:** Late nineteenth-century national attitudes as reflected in Oientatlist painting

4. War and Myth in Music, Math and Science - University Hall 3048
Moderator: Dr. Glen Gill

**Presenter:** Carlos Arco
**Advisor:** Dr. Glen Gill
**Title:** The imaginative logic of myth and science

**Presenter:** Michael Elices
**Advisor:** Dr. Brian Smith
**Title:** Enraptured by war, 1914-18

**Presenter:** Veronica Furman
**Advisor:** Dr. Glen Gill
**Title:** Fractal geometry and mythological structure
Presenter: Jake Roggenkamp  Advisor: Dr. Glen Gill
Title: Mythic imagery in modern music

5. Ecology and Environment - University Hall 3046
Moderator: Dr. Pankaj Lal

Presenter: Jessica Evans  Advisor: Dr. Jennifer Krumins
Title: The relationship between metal contamination, ectomycorrhizal diversity and plant biomass in an urban brownfield

Presenter: Pricila Iranah  Advisor: Dr. Pankaj Lal
Title: A case study of Mauritius
Co-author: Pankaj Lal

Presenter: Yu Qian  Advisor: Dr. Huan Feng
Title: A biogeochemical study of plant vanadium uptake and translocation on an urban brownfield site
Co-authors: Frank Gallagher, Huan Feng, Meiyou Wu, Qingzhi Zhu

Presenter: Bernabas Wolde  Advisor: Dr. Pankaj Lal
Title: Multidimensional assessment of woody biofuels in sustainability determination

6. Marketing and Digital Channels - University Hall 3012
Moderator: Dr. Yam B. Limbu

Presenter: Kerianne Clarke  Advisor: Dr. Yam B. Limbu
Title: Apps for success
Co-author: Blake Vernam

Presenter: Urmila Kishore  Advisor: Dr. Avinandan Mukherjee
Title: Comparing consumer behavior patterns using clickstream analysis

Presenter: Andrew LaBarbera  Advisor: Dr. Avinandan Mukherjee
Title: The influence of demographics and sessions on the online buying experience
Co-author: Douglas Bergquist

Presenter: Rosita Nunez  Advisor: Dr. Avinandan Mukherjee
Title: Sustainability reporting and brand recognition: Case study of large food brands

Presenter: Blake VandeRydt  Advisor: Dr. Yam B. Limbu
Title: A generational approach to multichannel marketing

7. Graph Theory and Combinations - University Hall 3008
Moderator: Dr. Jonathan Cutler

Presenter: Alyssa Byrne  Advisor: Dr. Jennifer Brown Urban
Title: Results of a mixed-methods analysis of evaluation capacity building through evaluation partnerships with STEM programs
Co-authors: Marissa Burgermaster, Kelly Panchoo, Michael Puccio, Samantha Spencer

Presenter: Melissa Fuentes  Advisor: Dr. Jonathan Cutler
Title: Proper connection of bipartite circulant graphs

Presenter: Miriam Parnes  Advisor: Dr. Jonathan Cutler
Title: Variations of the combinatorial game Tron

Presenter: Francesca Pizzigoni  Advisor: Dr. Aihua Li
Title: Superincreasing sequences and applications in cryptography
## 8. Fluid Solid Interactions - University Hall 3006

**Moderator:** Dr. Ashwin Vaidya  
**Presenter:** Alexander Cali  
**Advisor:** Dr. Philip Yecko  
**Title:** Falling-ball rheometry of magnetized ferrofluid in the presence of magnetic particle chains  
**Co-authors:** David Trubatch, Philip Yecko  

**Presenter:** Wayne Ernst  
**Advisor:** Dr. Ashwin Vaidya  
**Title:** Wake-cylinder interactions at low and intermediate Reynolds Numbers: Theory and experiments  
**Co-author:** Michael Cohrs  

**Presenter:** Joseph Fiordilino  
**Advisor:** Dr. Ashwin Vaidya  
**Title:** Pressure driven flow and heat transfer in a non-homogenous fluid  

**Presenter:** Pamela Guerron  
**Advisor:** Dr. Ashwin Vaidya  
**Title:** Fluid structure interaction: Bending of fibers in a flow  
**Co-author:** Dany Barry  

## 9. Philosophy and Spirituality - University Hall 3004

**Moderator:** Dr. David Benfield  
**Presenter:** Michael McCarthy  
**Advisor:** Dr. Mark Clatterbuck  
**Title:** Panopticism  

**Presenter:** Alexander Onik  
**Advisor:** Dr. David Benfield  
**Title:** Reality as the thing-in-itself and representation  

**Presenter:** Daniel Rynerson  
**Advisor:** Dr. David Benfield  
**Title:** Expanding consciousness and our idea of physicalism  

**Presenter:** Jamie Sommer  
**Advisor:** Dr. Kirk McDermid  
**Title:** Interning at D-R: Who benefits from philosophical education?  

## 10. Interpreting Literature: Shakespeare and Beyond - University Hall 3051

**Moderator:** Dr. Naomi Liebler  
**Presenter:** Jacob Burlas  
**Advisor:** Dr. Naomi Liebler  
**Title:** Shakespeare’s dogs: Civilization debunked  

**Presenter:** Maria Luque  
**Advisor:** Dr. Naomi Liebler  
**Title:** Lacking the season of all natures  

**Presenter:** Johnny Muller  
**Advisor:** Dr. Naomi Liebler  
**Title:** The metamorphosis of the bridle from tool to text  

**Presenter:** Allison Schaechter  
**Advisor:** Dr. Glen Gill  
**Title:** The mythoi of Hamlet  

**Presenter:** Daniel Sorbera  
**Advisor:** Dr. Patricia Matthew  
**Title:** Mansfield Park: Open to interpretation
Oral and Multimedia Presentations
Block C: 2:35 pm – 4:00 pm

1. Children’s Educational Experiences: Current Interdisciplinary Research
   University Hall 3054
   Moderator: Dr. Greg Pope
   Presenter: Christopher Desch
   Advisor: Dr. Jerry Alan Fails
   Title: LeapMotion for kids

   Presenter: Deborah Lewis
   Advisor: Dr. Greg Pope
   Title: A geospatial analysis of schools and alcohol and cigarette availability in Clifton, New Jersey

   Presenter: Christopher Parker
   Advisor: Dr. Mark Weinstein
   Title: Learning the meaning of the sacraments through writing poetry

   Presenter: Douglas Platt
   Advisor: Dr. Evan Fuller
   Title: Measuring students understand algebraic patterns

   Presenter: Joseph Todd
   Advisor: Dr. Tyson Lewis
   Title: Deschooling: The conceptual occupation of educational institutions

2. An Examination of Homosexuality and Gender Issues in Literature - University Hall 3052
   Moderator: Dr. Raul Galoppe
   Presenter: Janine Butler
   Advisor: Dr. Melinda Knight
   Title: ‘No preaching, I say!’: A rhetorical analysis of E.D.E.N. Southworth’s temperance motives and motifs

   Presenter: Jean Claude Cenatus
   Advisor: Dr. Elizabeth Emery
   Title: The fat, the lean, the courtesan and the prostitute: Emile Zola’s Le Ventre de Paris and the sex trade in Belle Epoque Paris

   Presenter: Jennifer Daly
   Advisor: Dr. Monika Elbert
   Title: The father of transcendentalism and the mother of American feminism: The influencing friendship of Margaret Fuller and Ralph Waldo Emerson

   Presenter: Joseph Gonzalez
   Advisor: Dr. Raul Galoppe
   Title: A reflection on the screen: The evolution of the gaze towards homosexuality in Argentine and American mainstream cinema

   Presenter: Claudia Perez
   Advisor: Dr. Raul Galoppe
   Title: Portrayal of female homosexuality in four Argentine films

3. Biochemistry and Biophysics - University Hall 3050
   Moderator: Dr. Nina Goodey
   Presenter: Ralph Falen
   Advisor: Dr. Vladislav Snitsarev
   Title: Sirolimus-metal ion complexes

   Presenter: Umme Habiba
   Advisor: Dr. Lee Lee
   Title: Potential synergistic antimicrobial activity of egallocatechin gallate and epigallocatechin gallate stearate on select microorganisms

   Presenter: Michael Little
   Advisor: Dr. Nina Goodey
   Title: Predicting allosteric residues that influence inhibitor specificity in dihydrofolate reductase enzyme family
   Co-authors: Emily Egbert, Seema Patel, Sarah Hall
4. Sociology and Science of Health - University Hall 3048
Moderator: Dr. Elaine Gerber

Presenter: Michelle Carnella  Advisor: Dr. Elaine Gerber
Title: HIV risk among transgendered and homosexual sex workers

Presenter: Aliaskar Hasani  Advisor: Dr. Carlos Molina
Title: Making a transgenic zebrafish for the expression of ICER in melanocytes as a model for relapsing melanomas
Co-author: Ethan Sebasco

Presenter: Naz Onel  Advisor: Dr. Avinandan Mukherjee
Title: Does social development for women impact environmental health of countries?

5. Re-examining Legendary Playwrights, Authors and Novels - University Hall 3046
Moderator: Dr. Linda Levine

Presenter: Christina Cruz  Advisor: Dr. Jane Peterson
Title: The emasculation of male characters in contemporary theatre

Presenter: Julie Lane  Advisor: Dr. Naomi Liebler
Title: The comic scapegoat: A sacred fool

Presenter: Yeri Lopez  Advisor: Dr. Linda Levine
Title: Don Quixote and the Italian theater

Presenter: Chandra Morgan  Advisor: Dr. Lois Oppenheim
Title: Candide or the new optimism

6. Issues in Geologic Science - University Hall 3012
Moderator: Dr. Sandra Passchier

Presenter: Daniel Ciarletta  Advisor: Dr. Sandra Passchier
Title: Preliminary characterization of Eocene-Oligocene depocenters in Prydz Bay, East Antarctica
Co-author: Sandra Passchier

Presenter: Melissa Koberle-Harclerode  Advisor: Dr. Pankaj Lal
Title: Optimizing sustainability of site characterization by implementing a phased focused investigation
Co-authors: Sean Coan, Pankaj Lal

Presenter: Gin Sanchez  Advisor: Dr. Pankaj Lal
Title: Economic and environmental analysis of solid waste management in the Dominican Republic

Presenter: Deepa Shah  Advisor: Dr. Stefanie Brachfeld
Title: Rock-magnetic and remanence properties of Yamato 980459 (Y-980459)
Co-author: Stefanie Brachfeld
7. Preventing Childhood and Adolescent Issues - University Hall 3051  
Moderator: Dr. Jonathan Caspi
Presenter: Melinda Iannarone  
Advisor: Cathy Brown, Esq.  
Title: It's time for a change: Reforming the New Jersey mandated reporting law for licensed practitioners

Presenter: Sarah Springer  
Advisor: Dr. Dana Levitt  
Title: Promoting a positive school culture: Navigating the role of the school counselor in bullying prevention  
Co-authors: Daniel Cinotti, Jill Schwarz
Presenter: Jessica Szweada  
Advisor: Dr. Jonathan Caspi  
Title: Siblings and discrimination: A qualitative exploration

8. Interdisciplinary Research of Higher Education - University Hall 3006  
Moderator: Dr. Matthew Shurts
Presenter: Vera Lentini  
Advisor: Dr. Emily Isaacs  
Title: First-year composition unit on invention

Presenter: Emily Raines  
Advisor: Dr. Douglas Murray  
Title: An exploratory study of college students' dietary choices relative to independence

Presenter: Sarah Vandermark  
Advisor: Dr. Matthew Shurts  
Title: Impact of academic advisement on student retention and satisfaction

Presenter: Sailume Walo-Roberts  
Advisor: Dr. Harriet Glosoff  
Title: Disconnections on a college campus: Using relational-cultural therapy with women of color  
Co-author: Sherlene Ayala

9. Language: Its Role in Young Adult Acculturation, Infant Thought and Native Language  
University Hall 3004  
Moderator: Dr. Laura Lakusta
Presenter: Katsiaryna Aharodnik  
Advisor: Dr. Anna Feldman  
Title: Automatic identification of learners' native language (L1) based on their writing in Czech

Presenter: Jonathan Kull  
Advisor: Dr. Kim O'Halloran  
Title: Language efficiency and acculturation

Presenter: Megan Sommer  
Advisor: Dr. Laura Lakusta  
Title: Will the goal always win?  
Co-authors: Jessica Bury, Inae Colucio, Katie Wiseman

10. Advances in Chemistry II - University Hall 3008  
Moderator: Dr. Saliya de Silva
Presenter: Robert Barrows  
Advisor: Dr. David Konas  
Title: Selective electrophilic fluorination of a chiral lactam ring

Presenter: William Hendrixson  
Advisor: Dr. Saliya de Silva  
Title: A one-pot approach to the synthesis of pyrazoles  
Co-author: Shikha Patel

Presenter: Agnieszka Pawlik  
Advisor: Dr. Saliya de Silva  
Title: A one-pot approach to the synthesis of pyrazoles  
Co-author: Allison Blackman
**Poster Presentations**  
*Block A: 9:45 am – 10:45 am*  
*(Alphabetical by Presenter’s Last Name)*

### Graduate Award Nominees for Poster Presentations

<table>
<thead>
<tr>
<th>Title</th>
<th>Presenter</th>
<th>Advisor</th>
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<tbody>
<tr>
<td>Does personality make a difference on students’ development as leaders (A44)</td>
<td>Selin Kalenderli</td>
<td>Dr. Valerie Sessa</td>
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<tr>
<td>Calculating knee joint torque during a vertical jump from an individualized relationship between muscle activity and joint torque (A43)</td>
<td>Ryan Nie</td>
<td>Dr. Steven Leigh</td>
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<td>The impact of Japanese Knotweed on stream water content of the Peckman and Third Rivers, NJ (A61)</td>
<td>Marily Segura</td>
<td>Dr. Dirk Vanderklein</td>
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### Undergraduate Award Nominees for Poster Presentations

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<td>Proposal for a study titled “Time of transition: An exploratory study of university students, culinary skills, eating decisions, and health outcomes” (A45)</td>
<td>Alison Halpern</td>
<td>Dr. Douglas Murray</td>
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<td>Improving ballistic vests for women in the Army (A21)</td>
<td>Lindsay Hescock</td>
<td>Dr. Denis Feigler</td>
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<td>Religion, women’s empowerment, and health/health-seeking behavior in India: A comparison of Muslim and Hindu women (A1)</td>
<td>Jessica McCabe</td>
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<td>The neuroprotective effects of EGCG on H2O2 and MPTP stress-induced PC12 cells (A26)</td>
<td>Anastasia Andrej</td>
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<td>Talker identification and New Jersey dialect discrimination (A30)</td>
<td>Michael Apfelbaum</td>
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<td>A literature review of cold whirlpool and premodulated current in the treatment of Adductor Strains (A31)</td>
<td>Matthew Barlow</td>
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<td>Testing the impact of rhizosphere microorganism on plant growth in soil with or without the presence of beneficial organisms (A42)</td>
<td>Jose Bazan</td>
<td>Dr. Jennifer Krumins</td>
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<td>Guillermo Riestra, Jennifer Krumins</td>
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<tr>
<td></td>
<td>Dr. Jennifer Krumins</td>
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Title: Infants' comprehension of source and goal path terms in motion events (A41)
Presenter: Jessica Bury
Co-authors: Daphne Labropoulos, Alexa Steinberg, Laura Lakusta
Advisor: Dr. Laura Lakusta

Title: The purification and analysis of mutated RET 51 (A60)
Presenter: Mary Carter
Advisor: Dr. Quinn Vega

Title: Classification of Mycobacterium Phage using polymerase chain reaction (A29)
Presenter: Chrisabelle Cempron
Advisor: Dr. Sandra Adams

Title: Automatically extracting a software word usage model from Java comments (A17)
Presenter: Kathy Chowaniec
Advisor: Dr. Emily Hill

Title: We scored! How we learned first-hand about sports marketing through a class project with the National Football League (A8)
Presenter: Ciara Decker
Advisor: Dr. Ric Jensen

Title: Experiences from a hands-on course in e-retailing and multi-channel retailing strategies (A54)
Presenter: Jessica DiGuiseppi
Co-authors: Melanie Tolomeo, Alexander Armeni, Caitlin DeBlasio, Xhusticja Hoxha, Jaclyn Nakonechny, Robert Testa, Teresa Yorkgitis
Advisor: Dr. Archana Kumar

Title: Changes in freshwater habitat in Sussex County, New Jersey (A53)
Presenter: Michael Dmytriw
Advisor: Dr. Joseph DiGianni

Title: Expression of the cytoplasmic domain of wild type and mutant RET 51 and purification using nickel beads (A56)
Presenter: Kristiina Dorofejeva
Co-author: Ebtesam Gerges
Advisor: Dr. Quinn Vega

Title: Pattern formation in non-equilibrium systems: Nature's spirals (A14)
Presenter: Wayne Ernst
Co-author: Jonathan Cutler
Advisor: Dr. Ashwin Vaidya

Title: Solubility of sirolimus in aqueous solutions (A9)
Presenter: Ralph Falen
Advisor: Dr. Vladislav Snitsarev

Title: Economic effects of climate change on winter activities in the Adirondack's high peaks region of New York (A47)
Presenter: Adam Fernandez
Advisor: Dr. Joseph DiGianni

Title: Amendment to the NJ Anti-Bullying Bill of Rights Act (A33)
Presenter: Jillian Fetchko
Advisor: Cathy Brown, Esq.

Title: Perceived questionability and the phenomenology of critical disposition (A54)
Presenter: Daniel Fisherman
Advisor: Dr. Tyson Lewis

Title: Curcumin as a potential inhibitor of Herpes Simplex virus infection in cultured cells (A34)
Presenter: Dan Flores
Advisor: Dr. Sandra Adams
Designing a guerilla marketing campaign for an O-T-C product to relieve muscle cramps (A40)
Presenter: Julia Giernianski
Co-authors: Vanessa Hernandez, Jaclyn Nakonechny, Jasiere Royster, Klaudia Zielonka, Elizabeth Agacinski
Advisor: Dr. John McGinnis

Looking is not eating (A37)
Presenter: Nancy Greene
Co-author: Monica Jimenez
Advisor: Dr. Debra Zellner

The notion of source in children’s event representations (A5)
Presenter: Serina Hernandez
Co-authors: Donna Batraki, Marija Marinkovic, Hila Lutz, Malathi Thothathiri, Jennifer Fandino, Laura Lakusta
Advisor: Dr. Laura Lakusta

Height is related to hand preference consistency (A13)
Presenter: Karly Hrank
Co-author: Sean McGraw
Advisor: Dr. Ruth Propper

Comparison of two methods for coding mother-infant interaction (A27)
Presenter: Krista Johnson
Advisor: Dr. Peter Vietze

Isolated and grouped armoured chondrules in an LL3.7 Chondritic Meteorite (A7)
Presenter: Travis Keeler
Advisor: Dr. Matthew Gorring

Where’s My Classroom? - A mobile navigational aid developed for use at Montclair State University (A62)
Presenter: Spencer Kordecki
Co-authors: Pranav Rele, Thomas Rademaker, Justin Guillou
Advisor: Dr. Jerry Alan Fails

Decoration of graphene with metal nanoparticles and its application for bioanalysis (A3)
Presenter: Keun Soo Kwon
Advisor: Dr. Shifeng Hou

Did Hurricane Sandy flooding affect residential soils in Southern Bergen County? (A51)
Presenter: Kam Lam
Advisor: Dr. Greg Pope

Preliminary characterization of a hemolytic activity In the cnidocysts of the jellyfish Chrysaora quinquecirrha from Barnegat Bay (A20)
Presenter: Ivonne Lozano
Advisor: Dr. John Gaynor

Optimizing liability: An extraterritorial focus on the analysis of vicarious and corporate civil liability (A12)
Presenter: Cesca Marsan
Advisor: Dr. Ian Drake

The effects of land use on periphyton growth in Northern NJ Watersheds (A57)
Presenter: Merari Mejia
Co-author: Tanya Sulikowski
Advisor: Dr. Meiyin Wu

Discharge and transport of pollutants in the lower Passaic River and Newark Bay (A39)
Presenter: Giorgi Nasrashvili
Advisor: Dr. Bogdan Nita
Title: **Environmental mainstreaming process in Afghanistan (A23)**
Presenter: Shamim Niazi
Co-author: Eric Stern
Advisor: Eric Stern

Title: **Possible hazards that could be affecting the Oradell Reservoir south of Old Hook Road, Bergen County, NJ (A22)**
Presenter: Joseph O'Brien
Advisor: Dr. Greg Pope

Title: **Contrastive voicing acquisition in typically developing children (A52)**
Presenter: Laura Ochs
Co-author: Patricia Gencarelli
Advisor: Dr. Elaine Hitchcock

Title: **Sediment organic geochemical investigations of the Gateway National Recreation Area using pyrolysis - gas chromatography / mass spectrometry (A36)**
Presenter: Kevin Olsen
Advisor: Dr. Michael Kruege

Title: **Inhibition of Sindbis Virus on vero cells (A25)**
Presenter: Ozioma Onyegbule
Advisor: Dr. Sandra Adams

Title: **Core and trunk muscle activation during an overhead squat: A pilot study (A38)**
Presenter: Michelle Armonda Padavano
Co-author: Stephen Dippel
Advisor: Dr. Fredrick Gardin

Title: **Dynamic distribution of Helitron transposable elements in lotus genome (A58)**
Presenter: Mitul Patel
Co-author: Krista Como
Advisors: Dr. Charles Du, Dr. Wenwei Xiong

Title: **Atomic force microscope use for analysis of graphene sheets (A59)**
Presenter: Lessy Pereda
Advisor: Dr. Shifeng Hou

Title: **Undergraduate student involvement in an evaluation research project (A48)**
Presenter: Michael Puccio
Co-authors: Samantha Spencer, Kelly Panchoo, Alyssa Byrne, Veronica Barrios
Advisor: Dr. Jennifer Brown Urban

Title: **Legal and public policy concerns regarding alienation in family law disputes (A32)**
Presenter: Angela Raleigh
Advisor: Dr. Ian Drake

Title: **EGCG as a synergistic agent in antibiotic therapy (A16)**
Presenter: Rima Rana
Co-authors: Umme Habiba, Eric Sanchez
Advisor: Dr. Lee Lee

Title: **The role of zinc in lowering detrimental effects of World Trade Center particulate matter on pulmonary fibroblasts (A46)**
Presenter: Patricia P. Rivera
Co-authors: Sung Choi, Felix Dailey
Advisor: Dr. Ann Marie DiLorenzo

Title: **Impromptu writing: Implications for teacher education admissions (A55)**
Presenter: Rebecca Rosenberg
Co-author: Charity Dacey
Advisor: Dr. Jennifer Robinson
Title: Common core state standards for mathematics and citizenship education (A4)
Presenter: Mark Russo
Advisor: Dr. Maughn Gregory

Title: MSU GOALS Survey: Serving the student athlete (A24)
Presenter: Andrea Rydel
Co-authors: Kim O'Halloran, Holly Gera
Advisor: Dr. Kim O'Halloran

Title: The price of food and its linkage to importation and exportation (A6)
Presenter: Michael Salmond
Advisor: Dr. Greg Pope

Title: Laser particle size analysis of Late Oligocene Diamicts in IODP Hole U1356A (A11)
Presenter: Vicky Sekkas
Co-author: Sandra Passchier
Advisor: Dr. Sandra Passchier

Title: What are the impacts of neighborhood qualities on the bicycle-friendly streets? (A50)
Presenter: Yojna Sharma
Advisor: Dr. Greg Pope

Title: Effect of Epigallocatechin Gallate(EGCG) and modified EGCG Stearate on Pseudomonas aeruginosa Biofilm (A10)
Presenter: Hassan Tahir
Co-author: Umme Habiba
Advisor: Dr. Lee Lee

Title: Wildlife Guardians Project (A28)
Presenter: Kelly Triece
Co-authors: Natalie Sherwood, Meiyin Wu, Gretchen Fowles, Brian Zarate
Advisor: Dr. Meiyin Wu

Title: Generation of a transgenic zebrafish expressing the transcriptional repressor ICER (A49)
Presenter: Theodora Tsatsos
Advisor: Dr. Carlos Molina

Title: The growing geography of Montclair State admissions (A2)
Presenter: Steve Tsemberlis
Advisor: Dr. Greg Pope

Title: Investigation of Oligomeric structure formation in VcCry1 by fluorescence anisotropy (A18)
Presenter: Julian Velez
Advisor: Dr. Yvonne Gindt

Title: Examining the correlation between the amount of green space available to residence and their social economic status (A15)
Presenter: George Wafula
Advisor: Dr. Greg Pope

Title: Mapping the ubiquitination sites of the transcriptional repressor ICER (A35)
Presenter: Fanaye Woldeamanuel
Co-authors: Carina Alvarez, Marni Crow
Advisor: Dr. Carlos Molina

Title: Geographic distributions of mosquito-borne disease research (A19)
Presenter: Salvatore Zerbo III
Advisor: Dr. Greg Pope
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Block B: 4:00 pm – 5:00 pm

(Alphabetical by Presenter’s Last Name)

Title: Elucidation of the substrate recognition mechanism of VcCry1, a DNA repair enzyme (B29)
Presenter: Rohe Ahmad
Advisor: Dr. Yvonne Gindt

Title: Closing the gap: Correlates, predictors and determinants of participation in breast cancer screening among older African American women (B52)
Presenter: Tiffany Allison
Advisor: Dr. Amanda Birnbaum

Title: Eye-tracking and sentence comprehension (B34)
Presenter: Alyssa Andreula
Co-authors: Krista Johnson, Kendra McKim
Advisor: Dr. David Townsend

Title: Detection of Xylella fastidiosa infection among oak trees in Brookdale Park, NJ using PCR (B4)
Presenter: Linda Araya
Co-authors: Christina Olivier, Amy Pitler, Christopher Langner, Steven Bowman, Leila Koepp
Advisors: Dr. Leila Koepp, Dr. Stephen Koepp

Title: Numerical modeling of flagellated organisms in fluid flow (B61)
Presenter: Christopher Berghout
Advisor: Dr. Bogdan Nita

Title: The analysis of potential effects of selenium dioxide, zinc chloride, and World Trade Center particulate matter on mammalian cell lines (B37)
Presenter: Caitlin Berkefeld
Co-author: Jagruti Patel
Advisors: Dr. Ann Marie DiLorenzo, Dr. Lee Lee

Title: Rock fall rates on canal cuts in Hackettstown, NJ (B47)
Presenter: Nicole Bernard-Rance
Advisor: Dr. Greg Pope

Title: Trace element fingerprinting of stream sediment in Northern New Jersey (B45)
Presenter: Amanda Bischak
Advisor: Dr. Greg Pope

Title: Environmental justice implications of urban children's alienation from nature: Can environmental education solve the problem? (B8)
Presenter: Alejandra Bozzolasco
Advisor: Dr. Neeraj Vedwan

Title: Isolation and characterization of novel phage known to infect mycobacterium smegmatis (B32)
Presenter: Christian Brutofsky
Co-authors: Nicole Abdallah, Dajana Borova, Alston Chen, Farahzebin Chowdhury, Natasha Daibes, Pauline Encarnacion, Avianca Goldston
Advisor: Dr. Sandra Adams

Title: Relationships and properties of product and sum connectivity indices of certain graphs (B60)
Presenter: William P. Burke
Advisor: Dr. Aihua Li

Title: Mitochondrial DNA gene sequence completion of Sea Nettles, Chrysaora quinquecirrha (B16)
Presenter: Katlyn Buschgans
Advisor: Dr. John Gaynor
Title: What are they teaching you these days?! An analysis of American attitudes toward non-traditional educators (B33)
Presenter: Ian Callahan
Advisor: Dr. Sangeeta Parashar

Title: The effects of PNF stretching versus static stretching on tissue elasticity and joint range of motion (B22)
Presenter: Megan Cavallo
Advisor: Dr. David Middlemas

Title: Investigation of substrate length and the thermodynamics of substrate binding for the DNA repair enzyme, Photolyase (B48)
Presenter: GeorgeMarie Chalet
Advisor: Dr. Yvonne Gindt

Title: Exploring complexities of teacher identity and race: An autoethnographic study (B43)
Presenter: Cyrene Crooms
Advisor: Dr. Monica Taylor

Title: Right on target (B23)
Presenter: Ciara Decker
Advisor: Dr. Yam B. Limbu

Title: Ferrofluid monolayers: The influence of surfactants on stability and transfer (B19)
Presenter: Goran Dojcinoski
Advisor: Dr. Patrick Truitt

Title: Distal amino acids that define ligand specificity in the dihydrofolate reductase enzyme family (B42)
Presenter: Emily Egbert
Co-authors: Michael Little, Seema Patel, Sarah Hall
Advisor: Dr. Nina Goodey

Title: The GK-12 program: Graduate students working together to bring the complexity of graduate research in science and mathematics to middle school classrooms (B17)
Presenter: Leszczynski Eliza
Co-authors: Anna Slusarczyk, Francesca Pizzigoni, Jessica Evans, Alexander Cali
Advisor: Dr. Mika Munakata

Title: The non-academic factors of college readiness: How counseling can be beneficial (B24)
Presenter: Hillary Fanelli
Co-authors: Erica Dietsche, Alima Williams
Advisor: Dr. Kim O'Halloran

Title: Mapping dominant aquatic macrophytes at Lake Wapalanne, NJ (B58)
Presenter: Marco Finocchiaro
Advisor: Dr. Meiyin Wu

Title: Growth in Taraxacum officinale when grown in Zn or Pb polluted soil with microbial inoculate from brownfield soil (B31)
Presenter: Ariel Flood
Co-author: Jennifer Krumins
Advisor: Dr. Jennifer Krumins

Title: Paleo floods of New Jersey (B9)
Presenter: Diana Flores
Advisor: Dr. Joshua Galster

Title: Transcriptional changes in response to activation of the receptor Tyrosine Kinase RET (B49)
Presenter: Elizabeth Y. Flores
Advisor: Dr. Quinn Vega

Title: Synthesis of an analog of Lys05, a promising multivalency autophage inhibitor (B7)
Presenter: Luis Lopez Gomez
Advisor: Dr. John Isidor
Title: Ferrate for treatment of landfill leachate (B3)
Presenter: Christopher Gravesen
Advisor: Dr. Yang Deng

Title: Fingerprinting analysis of microbial community of aphid infested hemlock trees (B20)
Presenter: Lina Halawani
Advisor: Dr. Jennifer Krumins

Title: Time series analysis of an Antarctic early Pliocene ice-rafted debris record (B56)
Presenter: Melissa Hansen
Co-author: Sandra Passchier
Advisor: Dr. Sandra Passchier

Title: Optimizing approaches for distributed computing based best band selection algorithms for hyperspectral image processing (B41)
Presenter: Spencer Kordecki
Co-author: Stephen Gallo
Advisor: Dr. Stefan Robila

Title: Elucidating the role of water in substrate binding for the DNA-repair enzyme, DNA Photolyase (B51)
Presenter: Daniel Kosciuszko
Advisor: Dr. Yvonne Gindt

Title: Novel inhibitors of the Brugia Malayi stress-activated protein Kinase, Bm-MPK1 (B27)
Presenter: Tamara Kreiss
Co-author: Agnieszka Chojnowski
Advisor: Dr. John Siekierka

Title: Mobile interaction and query optimization in a protein-ligand data analysis system (B5)
Presenter: Marvin Lapeine
Advisors: Dr. Nina Goodey, Dr. Katherine Herbert, Dr. Emily Hill

Title: The syntheses of epigallocatechin gallate derivatives as potential HSP90 inhibitors (B2)
Presenter: Jungeun Jasmine Lee
Advisor: Dr. David Rotella

Title: A comparison of the activation and timing of the internal and external oblique muscles during a sit-up exercise (B10)
Presenter: Thomas Leonardis Jr.
Co-authors: Christopher Bellon, Ryan Nie
Advisor: Dr. Steven Leigh

Title: Intuitive glucose monitor for the blind (B25)
Presenter: Andres Lesmes
Advisor: Dr. Denis Feigler

Title: Evaluation of the removal of traditional contaminants from secondary effluent using Ferrate(VI) (B28)
Presenter: Nanzhu Li
Co-author: Yang Deng
Advisor: Dr. Yang Deng

Title: Sikhism and positive psychology (B44)
Presenter: Anna Flores Locke
Co-authors: Muninder K. Ahluwalia, Steven Hylton
Advisor: Dr. Muninder K. Ahluwalia

Title: Construction of a cDNA library of the Sea Nettle, Chrysaora quinquecirrha (B13)
Presenter: Victoria Lussier
Advisor: Dr. John Gaynor

Title: Access to secondary health care facilities: A spatial and social comparison study (B57)
Presenter: Rachel Malaniak
Advisor: Dr. Greg Pope
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<td>Privatization of the remedial process: Analysis of licensed site remediation professional programs (B38)</td>
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<td>Stable isotope evidence of meteoric groundwater recharge in parts of the White Volta basin, Ghana (B12)</td>
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<td>Calibrating the detection of spontaneous speech: From sentences to noun phrases (B14)</td>
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<td>Holding latitude constant: A look at how several U.S. cities' climates vary with longitude (B30)</td>
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<td>Potential usage of tea polyphenols in controlling endospore germination in <em>Bacillus cereus</em>, <em>B. megaterium</em>, and <em>B. subtilis</em> (B15)</td>
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Presenter: David Sharpe
Advisor: Dr. Joshua Galster

Title: Habitat use and population demographics of two aquatic turtle species in a temperate forest lake (B59)
Presenter: Tara Snyder
Co-authors: Linda Araya, Paola Dolcemascolo, Lisa Hazard, Kirsten Monsen-Collar
Advisor: Dr. Joseph DiGianni

Title: Capturing weak interactions in chemistry (B36)
Presenter: Anthony Strobolakos
Co-authors: Andrew Hernandez, Andrew Vild
Advisor: Dr. Hendrik Eshuis

Title: A comparison of internal and external focus cues in biofeedback for treating /r/ Misarticulation (B53)
Presenter: Michelle Swartz
Advisor: Dr. Elaine Hitchcock

Title: Pipeline transportation of biomass (B40)
Presenter: Jillian Varner
Co-authors: Siobhan Soltau, Gin Sanchez
Advisor: Dr. Ashwin Vaidya

Title: The effect of posterior tibialis fatigue on navicular drop (B35)
Presenter: Jennifer Williams
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Title: Using graphics to think: Making graphics to represent educational authority in a qualitative research (B62)
Presenter: Olivier Michaud
Advisor: Dr. Kathryn Herr
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Middlemas, David
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Mills, Tammy
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Molina, Carlos
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Acknowledgments:
Many faculty, staff and students have contributed to the success of this event, and the Committee would like to acknowledge the special contributions of the following:

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