

share your intellectual passions **2012**



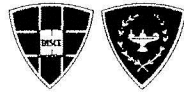
HOBART AND WILLIAM SMITH COLLEGES

April 13, 2012

Sponsored by the
Center for Teaching and Learning

**The Senior
Symposium**





HOBART AND WILLIAM SMITH
COLLEGES

Office of the President

April 3, 2012

Dear Members of the Hobart and William Smith Community,

Hobart and William Smith Colleges have a rich and unique history rooted in interdisciplinary teaching and research. Under the mentorship of our faculty, HWS students work in classrooms, laboratories, studios and in the community to pursue skills and interests at an advanced level and build rewarding personal and academic relationships.

The Senior Symposium is our opportunity to come together to recognize that sustained and sophisticated work. It's also a chance to celebrate the students who push the bounds of intellectual engagement and the faculty members whose deep commitment make this possible.

Whether they're presenting independent projects, creative works or scholarly research, the students participating in the Symposium have the unique opportunity to give voice to their work and exchange ideas across the diverse HWS community.

I am proud of the more than 72 seniors who chose to participate in the Colleges' fourth Senior Symposium. I am grateful to the many faculty members who have mentored these students and who encourage them to tackle complex research and creative topics. Finally, I am thankful to the Center for Teaching and Learning and to Dr. Susan Pliner and her staff for their vision and leadership in making the Senior Symposium possible.

Sincerely,

A handwritten signature in black ink that reads "Mark D. Gearan". The signature is written in a cursive style with a large, stylized 'G' at the end.

Mark D. Gearan
President

HOBART AND WILLIAM SMITH COLLEGES

Members of the HWS Community:

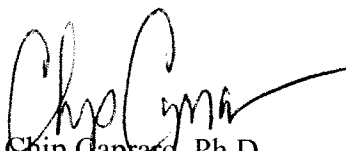
The *Senior Symposium* is an exciting event which reflects and honors the depth and breadth of engagement among Hobart and William Smith students in a diverse spectrum of academic and creative interests. It makes visible that which is often invisible, the long hours and hard work students dedicate to the intellectual journey during their four years at the Colleges. Most importantly, it provides an opportunity for students, under the guidance of faculty advisors, to engage each other as teachers and learners.

As your Deans, we join with the Center for Teaching and Learning in applauding those who are participating in the fourth Senior Symposium as presenters. This is an important academic achievement that you now have as part of your legacy. We also want to applaud the volunteer stewards who will assist in the organization of the day and the faculty and staff who will serve as panel moderators. The Deans also join in the welcoming of all members of the HWS community to this wonderful demonstration of student teaching and learning.

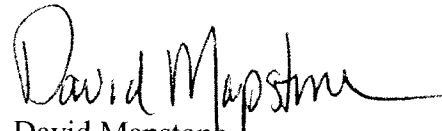
Sincerely,



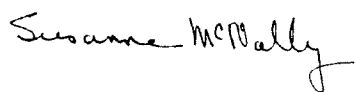
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Hobart College



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Assistant Dean
William Smith College



Lisa Kaenzig, Ph.D.
Associate Dean
William Smith College

HOBART
AND
WILLIAM SMITH
COLLEGES

Dear Colleagues, Students, and Friends:

Welcome to the fourth annual Hobart & William Smith Senior Symposium. Over the past three years, the Senior Symposium has brought the HWS community together to celebrate the academic interests, scholarly passions, and creative works of our graduating seniors. On this day, April 13, 2012, we recognize the diversity and breadth of work here at the Colleges.

To celebrate the fourth year of the Senior Symposium, I would like to share some of the ways past participants, attendees, faculty, and community members have articulated their experiences participating in or attending the event:

"[The Senior Symposium] was an amazing outlet to present work that we, as students, have worked on or are developing in the midst of our studies."

"I became very excited for my senior year and seeing all of the work that I have been doing come together. I look forward to presenting and sharing what I have been doing with the HWS community."

"I was very impressed listening to our students present with such confidence and expertise on their respective areas of study."

"I wish...that I could have cloned myself to attend all the concurrent sessions. I consider it a true privilege to work with your students and faculty on numerous projects that join the Colleges and our community in the quest to make Geneva an even more wonderful place to live, work, play, and invest."

These comments reflect both the purpose of the Senior Symposium and the mission of the Center for Teaching and Learning: cultivating, perpetuating, and sharing intellectual passion in all areas of study. As with many other CTL initiatives, the Senior Symposium is rooted in a love of learning and promotion of student academic engagement. The Symposium prompts us to carry on interdisciplinary dialogue across the diverse areas of study offered here at the Colleges, an essential part of a liberal arts education.

I would like to extend my sincere thanks to Ruth Shields, Susan Hess, Caitlin Caron, Evelyn Sperry, Sam Vann, David Silver and the student staff at the CTL for their dedication and hard work towards making this event possible.

Sincerely,



Susan M. Pliner, Ed.D.

Associate Dean of Teaching, Learning, and Assessment

ACKNOWLEDGEMENTS

The fourth annual Senior Symposium 2012 was made possible by the vision, leadership, and efforts of many in the Hobart and William Smith community.

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Sincere thanks are extended to the students, faculty advisors, faculty moderators, department administrative assistants, staff, alumnae, and all who have contributed to the success of this year's event.

RESEARCH SUPPORT AND AWARDS

Symposium students have received generous support for their academic projects from the following organizations, programs, and funds:

Charles H. Salisbury International Internship Stipend
Eric Cohler Internship and Travel Award
Hobart Student Government
NIH Academic Research Enhancement Award
Office of the President
Office of the Provost
HWS Undergraduate Summer Research Program
William Smith Congress
William Smith Deans' Office
Woodworth Fellowship

Senior
Symposium
2012
Presenters

SENIOR SYMPOSIUM 2012 PRESENTERS

Name	Department/Program	Sponsor	Panel Time	Room
Andrews, Cory	Dance, Social Justice	Donna Davenport	3:00-3:55	Sanford Room
Bacon, Wendi	Spanish and Hispanic Studies	Caroline Travalia	1:55-2:50	Sanford Room
Bacon, Wendi	Biology	Patricia Mowery	3:00-3:55	Geneva Room
Berliner, Lucia	Media and Society	Leah Shafer	11:15-12:10	Geneva Room
Billy, Kitwan	Sociology	Jack Harris	11:15-12:10	Geneva Room
Brooks, Adam	Chemistry	Christine de Denus	8:00-8:55	Sanford Room
Brown, Michael	Sociology	Jack Harris	11:15-12:10	Sanford Room
Bruno, Jonathan	Philosophy	Eugen Baer	9:05-10:00	Sanford Room
Callan, Jaime	Education: MAT	Khuram Hussain	1:30-2:50	Learn Lab
Carrese, Leslie	Sociology	Jack Harris	9:05-10:00	Geneva Room
Carter, Timothy	English	David Weiss	8:00-8:55	Sanford Room
Cedacero, Cristian	Sociology	Jack Harris	9:05-10:00	Geneva Room
Coakley, Meagan	Sociology	Jack Harris	11:15-12:10	Sanford Room
Coakley, Meagan	Sociology	Renee Monson	1:55-2:50	Geneva Room
Copacino, Michael	History	Laura Free	9:05-10:00	Learn Lab
Cutts, Sarah	Art History	Elena Ciletti	1:55-2:50	Library Conference Room
Davis, Augusta	English	Sarah Berry	3:00-3:55	Sanford Room
Devuyst, Melanie	Sociology	Jack Harris	9:05-10:00	Geneva Room
Dosky, Caroline	William Smith Deans' Office	Lisa Kaenzig	8:00-8:55	Sanford Room
Drake, Ashley	Dance	Cadence Whittier	10:10-11:05	Library Conference Room
Duquette, Laura	Economics	Felipe Rezende	8:00-8:55	Learn Lab

SENIOR SYMPOSIUM 2012 PRESENTERS

Name	Department/Program	Sponsor	Panel Time	Room
Earl, Scott	Economics	Felipe Rezende	11:15-12:10	Sanford Room
England, Chelsea	Sociology	Jack Harris	9:05-10:00	Geneva Room
Essien, Elsie	Africana Studies	James McCorkle	9:05-10:00	Sanford Room
Etienne, Daphney	Writing and Rhetoric	Neeta Bhasin	1:55-2:50	Sanford Room
Fay, David	Economics	Felipe Rezende	3:00-3:55	Learn Lab
Fish, Jarrid	Sociology	Jack Harris	11:15-12:10	Sanford Room
Flynn, Bart	Biology	Meghan Brown	10:10-11:05	Library Conference Room
Forman, Keith	Economics	Felipe Rezende	3:00-3:55	Geneva Room
Fry, Rebecca	Education: MAT	Khuram Hussain	10:10-11:30	Learn Lab
Garcia, Isaias	Writing and Rhetoric	Michele Polak	11:15-12:10	Sanford Room
Garland, Michael	Economics	Felipe Rezende	10:10-11:05	Sanford Room
Guo, Yanli	Biology	Kristy Kenyon	1:55-2:50	Geneva Room
Henn, Owen	Sociology	Jack Harris	8:00-8:55	Geneva Room
Hess, Alexander	Religious Studies	Shalhudin Kafrawi	10:10-11:05	Geneva Room
Hilton, Joan	Biology	Susan Cushman	10:10-11:05	Sanford Room
Holtsinger, Serena	Sociology	Jack Harris	11:15-12:10	Geneva Room
Horner, Margaret	Economics	Felipe Rezende	9:05-10:00	Geneva Room
Hughes, Caitlin	Economics	Alan Frishman	9:05-10:00	Geneva Room
Hunsinger, Helen	French and Francophone Studies	Catherine Gallouet	1:55-2:50	Library Conference Room
Iannitelli, Gina	Studio Art	Nicholas Ruth	3:00-3:55	Learn Lab
Jameson, Mary	Sociology	Jack Harris	11:15-12:10	Sanford Room

SENIOR SYMPOSIUM 2012 PRESENTERS

Name	Department/Program	Sponsor	Panel Time	Room
Keeton, Maeve	Dance	Cadence Whittier	3:00-3:55	Learn Lab
Kincaid, Ryan	Education: MAT	Khuram Hussain	1:30-2:50	Learn Lab
Kush, Kristen	Chemistry	Christine de Denus	3:00-3:55	Geneva Room
Larsson, Terje	Economics	Felipe Rezende	9:05-10:00	Learn Lab
Levesque, Christa	Education: MAT	Khuram Hussain	10:10-11:30	Learn Lab
Liu, Yaoxin	Mathematics and Computer Science	Jonathan Forde	3:00-3:55	Geneva Room
Luly, Thomas	Russian Area Studies	Kristen Welsh	3:00-3:55	Learn Lab
Lysohir, Charlotte	Sociology	Jack Harris	11:15-12:10	Geneva Room
Marder, Elizabeth	Sociology	Jack Harris	1:55-2:50	Sanford Room
Marino, Katherine	Biology	Meghan Brown	10:10-11:05	Sanford Room
Marlow, Sarah	Philosophy	Eugen Baer	10:10-11:05	Library Conference Room
Martin, Connor	Economics	Felipe Rezende	8:00-8:55	Geneva Room
Matteson, Kevin	Education: MAT	Khuram Hussain	1:30-2:50	Learn Lab
McCarthy, Kathryn	Education	Mary Kelly	3:00-3:55	Sanford Room
McConnell, William	Sociology	Wes Perkins	1:55-2:50	Library Conference Room
McCue, Jess	History	John Marks	9:05-10:00	Learn Lab
McInerney, Mark	Economics	Felipe Rezende	8:00-8:55	Geneva Room
Melara, Marcela	French and Francophone Studies	Catherine Gallouet	1:55-2:50	Library Conference Room
Melara, Marcela	Mathematics and Computer Science	John Vaughn	10:10-11:05	Sanford Room
Moeller, Laura	Education: MAT	Khuram Hussain	10:10-11:30	Learn Lab
Nickerson, Hannah	French and Francophone Studies	Catherine Gallouet	11:15-12:10	Library Conference Room

SENIOR SYMPOSIUM 2012 PRESENTERS

Name	Department/Program	Sponsor	Panel Time	Room
Noonan, Marleah	Psychology	Jamie Bodenlos	8:00-8:55	Learn Lab
Oese-Siegel, Mirel	French and Francophone Studies	Catherine Gallouet	11:15-12:10	Library Conference Room
Perry, Elizabeth	Studio Art	Nicholas Ruth	9:05-10:00	Sanford Room
Petersen, Lukas	Sociology	Jack Harris	1:55-2:50	Sanford Room
Pizzo, Alaria	Education: MAT	Khuram Hussain	10:10-11:05	Learn Lab
Porter, Gideon	English, Mathematics and Computer Science	John Vaughn and Laurence Erussard	11:15-12:10	Library Conference Room
Posman, Mary	History	Derek Linton	8:00-8:55	Learn Lab
Ross, Emily	Sociology	Jack Harris	11:15-12:10	Geneva Room
Schectman, Imani	Studio Art	Christine Chin	9:05-10:00	Sanford Room
Schwarzenberg, Lauren	Architectural Studies	Jeffrey Blankenship	11:15-12:10	Geneva Room
Scibilia-Carver, Daniel	French and Francophone Studies	Catherine Gallouet	3:00-3:55	Sanford Room
Smith, Maggie	Sociology	Jack Harris	10:10-11:05	Library Conference Room
Smukler, Samuel	Sociology	Jack Harris	1:55-2:50	Sanford Room
Stafford, Duncan	Sociology	Jack Harris	1:55-2:50	Sanford Room
Staulters, Christine	Africana Studies	James McCorkle	11:15-12:10	Library Conference Room
Stout, Josephine	Biology	Kristy Kenyon	8:00-8:55	Geneva Room
Thomson, Lindsey	Sociology	Jack Harris	1:55-2:50	Sanford Room
To, Tra	International Relations	Jack Harris	10:10-11:05	Geneva Room
Vasquez, Jade	Latin American Studies	Brenda Maiale	10:10-11:05	Geneva Room
Warner, Melissa	Russian Area Studies	Kristen Welsh	10:10-11:05	Geneva Room
Williamson, Mary	Art History	Lara Blanchard	1:55-2:50	Geneva Room

SENIOR SYMPOSIUM 2012 PRESENTERS

Name	Department/Program	Sponsor	Panel Time	Room
Wu, Jenny	Art and Architecture	Nicholas Ruth	8:00-8:55	Sanford Room
Yang, Ashley	Education: MAT	Khuram Hussain	1:30-2:50	Learn Lab

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Schedule

Library Conference Room

Time	Presenters	Abstract Title	Department/Program
New Approaches to Old Problems (Moderator: Kristy Kenyon)			
10:10-11:05	Drake, Ashley	Understanding and Treating Chronic Pain	Dance
	Flynn, Bart	Population Survey of <i>Corbicula fluminea</i> in Finger Lakes Canal System: An Investigation of Suitable Lake Sturgeon Habitat	Biology
	Marlow, Sarah	Find and Flourish: Plato's Theories of Education as a Potential Basis for Reforming Urban Education	Philosophy
	Smith, Maggie	Linden Street Renewal: Finding the Heart of Geneva	Sociology
	Questions and Answers		
Constraints (Moderator: Renee Monson)			
11:15-12:10	Nickerson, Hannah	18th Century France: A Portrait of Social Constraints	French and Francophone Studies
	Oese-Siegel, Mirel	Movement in 18th Century French Literature	French and Francophone Studies
	Porter, Gideon	HWS in Prison	English, Mathematics and Computer Science
	Staulters, Christine	The Buffalo of Du: A Gendered Analysis	Africana Studies
	Questions and Answers		
Relationships and Power (Moderator: Catherine Gallouet)			
1:55-2:50	Cutts, Sarah	Women's Patronage In Rome: Paralleling Anna Colonna and St. Teresa of Avila	Art History
	Hunsinger, Helen	Passion in French Literature of the 18th Century	French and Francophone Studies
	McConnell, William	The Sociological Study of Suicide: Exploring the Network Approach	Sociology
	Melara, Marcela	Patriarchy and Womanhood in 18th Century French Literature	French and Francophone Studies
	Questions and Answers		

Learn Lab

Panel Time	Presenters	Abstract Title	Department/Program
Asking Why (Moderator: Lisa Kaenzig)			
8:00-8:55	Duquette, Laura	Bear Stearns, Lehman Brothers, and the Federal Reserve: Who Is to Blame?	Economics
	Noonan, Marleah	Mindfulness and Alcohol Problems Among HWS Students	Psychology
	Posman, Mary	"Why Rochester?": A Critical Examination of the Experiences of Jewish Refugees in the WWII Era	History
	Questions and Answers		
Perspectives and History (Moderator: Stephen Cope)			
9:05-10:00	Copacino, Michael	Memories of War: Theodore Roosevelt and Henry Cabot Lodge's Memory of the Civil War and the Shaping of American Masculinity, 1880-1910	History
	Larsson, Terje	The Basel III Accord for Financial Stability: Prospects and Implications	Economics
	McCue, Jess	A Steam Engine of Change	History
	Questions and Answers		
Transforming Teaching (Moderator: Scott MacPhail)			
10:10-11:30	Fry, Rebecca	Creative Movement within the Elementary Classroom	Education: MAT
	Levesque, Christa	Incorporating Religious Stereotypes and Media Literacy into a Secondary School Elective Course	Education: MAT
	Moeller, Laura	A Multi-Sensory, Content- Based Approach to Teaching Foreign Languages in the Public Elementary School	Education: MAT
	Pizzo, Alaria	Inclusive Practices in the Secondary English Language Arts Classroom: A Resource Guide	Education: MAT
	Questions and Answers		

Educating Through Gender, Character, and Community (Moderator: Portia Dyrenforth)

1:30-2:50	Callan, Jaime	Teaching Character through the Characters in Children's Books	Education: MAT
	Kincaid, Ryan	Building Bridges: Creating Connections Between People, Organizations, and Communities Via After-School Programs	Education: MAT
	Matteson, Kevin	Man Up?: Addressing the Construction of the Masculine Identity through Athletics	Education: MAT
	Yang, Ashley	Academic Achievement and Gender Discrimination: How High School Students' Awareness of Gender Discrimination Affects Their Self-Perception of Academic Achievement	Education: MAT
	Questions and Answers		

Innovative Approaches (Moderator: Alan Frishman)

3:00-3:55	Fay, David	Financial Innovation: Development, Propagation, and Crisis	Economics
	Iannitelli, Gina	Abstraction and Atmosphere-Exploring Color Relationships	Studio Art
	Keeton, Maeve	Health Studies: Mind and Body Integration	Dance
	Luly, Thomas	Skolkovo: A Start, But Not a Silver Bullet	Russian Area Studies
	Questions and Answers		

Geneva Room

Panel Time	Presenters	Abstract Title	Department/Program
Asking How (Moderator: Cheryl Forbes)			
8:00-8:55	Henn, Owen	Type-2 Diabetes in the U.S. as a Sociological Problem: Conflicts and Controversies	Sociology
	Martin, Connor	Proprietary, High Frequency and Algorithmic Trading: Pulling the Financial System's Levers and Decoupling the Financial Sector from the Real Economy	Economics
	McInerney, Mark	Financial Instability: The Effects of Economic Trends on Financial Deregulation	Economics
	Stout, Josephine	The Genetics of Fruit Fly Eye Development: Identifying the Critical Amino Acids of SOBP that Mediate Interaction with Transcriptional Regulator Sine Oculis	Biology
	Questions and Answers		
Anybody Home? (Moderator: JoBeth Mertens)			
9:05-10:00	Carrese, Leslie; Cedacero, Cristian; Devuyst, Melanie; England, Chelsea	Substandard Housing in Geneva	Sociology
	Horner, Margaret	The Subprime Mortgage Crisis: Who is to Blame?	Economics
	Hughes, Caitlin	Mjondolo: The Crisis of Slums and Squatter Settlements in Sub-Saharan Africa	Economics
	Questions and Answers		

Understanding Internationally (Moderator: Jason Rodriguez)			
10:10-11:05	Hess, Alexander	Beyond the Qur'an: Jesus in Muslim Eschatology	Religious Studies
	To, Tra	Beware of the Dragon: Vietnam's Foreign Policy Toward China	International Relations
	Vasquez, Jade	Sin City: The Real Life Story of Violence and Corruption in Ciudad Juarez	Latin American Studies
	Warner, Melissa	Translating Tatyana Tolstaya	Russian Area Studies
	Questions and Answers		
Community Needs and Design (Moderator: Darrin Magee)			
11:15-12:10	Berliner, Lucia	Healthy Food for All: A Model for the Future of Harmonious Consumption	Media and Society
	Billy, Kitwan; Holtsinger, Serena; Lysohir, Charlotte; Ross, Emily	Building Community: Assessing Head Start Needs	Sociology
	Schwarzenberg, Lauren	Experiences with Progressive Design and How It Can Serve Humanity	Architectural Studies
	Questions and Answers		
Gender and Perception (Moderator: Chip Capraro)			
1:55-2:50	Coakley, Meagan	Fielding Injuries, Courting Gender: Perceptions of Injuries among Men and Women Student Athletes	Sociology
	Guo, Yanli	Understanding the Development of the Antennal Imaginal Disc in <i>Heliothis Virescens</i>	Biology
	Williamson, Mary	Snake/Skin: A Study of the Transformation of Women into Reptiles in Japanese Narrative Art	Art History
	Questions and Answers		

New Solutions (Moderator: Jonathan Forde)

3:00-3:55	Bacon, Wendi	Multiple Myeloma: Using Your Own Body Against You	Biology
	Forman, Keith	Redefining the Financial Sector: A Sustainable Banking Model	Economics
	Kush, Kristen	Molecular Wires: The Synthesis and Characterization for the Race in Technological Advancement	Chemistry
	Liu, Yaixin	A Mathematical Model of HBV/HDV Co-Infection	Mathematics and Computer Science
	Questions and Answers		

Sanford Room

Time	Presenters	Abstract Title	Department/Program
Creation (Moderator: Kathryn Cowles)			
8:00-8:55	Brooks, Adam	Precipitating the Future of Technology: The Design, Synthesis, and Characterization of Molecular Wire Candidates	Chemistry
	Carter, Timothy	The Subjunctive Life	English
	Dosky, Caroline	Lead, Grow, and Inspire: Linking Leadership to the Elementary Education Curriculum	William Smith Deans' Office
	Wu, Jenny	Beautiful Failures	Art and Architecture
	Questions and Answers		
Making Sense (Moderator: Rodmon King)			
9:05-10:00	Bruno, Jonathan	Theories of Mind and Neurophysiology: Consciousness and the Visual System	Philosophy
	Essien, Elsie	Seeing Colors: Place, Culture, and Identity	Africana Studies
	Perry, Elizabeth	Decisive Choices: Understanding Composition through the Practice of Painting	Studio Art
	Schectman, Imani	Seeking the Self: Reflecting and Reconstructing Female Identity	Studio Art
	Questions and Answers		
Environment in Perspective (Moderator: Amy Forbes)			
10:10-11:05	Marino, Katherine	Dancing Through the Trees, Dancing Through the Cities: Movement and Environmental Sustainability	Biology
	Melara, Marcela	ELARA: Environmental Liaison and Automated Recycling Assistant	Mathematics and Computer Science
	Garland, Michael	Energy Security and Economic Crisis	Economics
	Hilton, Joan	The Effects of Urbanization on Castle Creek and Its Surrounding Watershed	Biology
	Questions and Answers		

Getting the Word Out (Moderator: Christopher Annear)			
11:15-12:10	Earl, Scott	The Causes and Short-Term Consequences of the 2007-2010 Financial Crisis	Economics
	Garcia, Isaias	\$wagonomics	Writing and Rhetoric
	Brown, Michael; Coakley, Meagan; Fish, Jarrid; Jameson, Mary	Consultants for Ontario County Veteran Equity	Sociology
	Questions and Answers		
Disrupting Stereotypes (Moderator: Mihaela Petrescu)			
1:55-2:50	Bacon, Wendi	Why Iago Sounds Funny in Spanish	Spanish and Hispanic Studies
	Etienne, Daphney	Haiti Through the Lens	Writing and Rhetoric
	Marder, Elizabeth; Petersen, Lukas; Smukler, Samuel; Stafford, Duncan; Thomson, Lindsey	Our Partnership with Geneva Human Rights Commission: An Assessment of Fair Housing Knowledge	Sociology
	Questions and Answers		
Interrogating Social Justice (Moderator: Beth Kinne)			
3:00-3:55	Andrews, Cory	Images of Oppression	Dance, Social Justice
	Davis, Augusta	"Race-ing" Sex and "Sex-ing" Race: The Inextricability of Racialized Violence, Sexuality, and Gender in 19th- and 20th-Century African American Literature	English
	McCarthy, Kathryn	An Intervention-Based Approach to Assistive Technology and Inclusion in Education	Education
	Scibilia-Carver, Daniel	A Century of Social Upheaval in France: How Class Pervades 18th Century French Literature	French and Francophone Studies
	Questions and Answers		

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Abstracts

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IMAGES OF OPPRESSION

Cory Andrews

The goal of my research project is to use art images, specifically photographs by the artist Zoe Strauss, as a mechanism to identify the personal lens with which I view themes of social justice in my life. By viewing, absorbing, and responding to various photographs from Strauss's "Ten Years" exhibition in the Philadelphia Museum of Art, my goal is to track themes across my responses in order to pin down my particular viewpoint as a person with a unique social location and as a student of Social Justice Studies.

The questions I am addressing during the course of this project are: What about the images I've selected strikes me? What does my reaction say about 1) how I perceive, 2) how Social Justice Studies has influenced that perception, and 3) how Social Justice Studies can apply to art?

My interest was inspired by the Capstone Experience requirement of the Social Justice Studies Minor. Critical studies in areas such as race, gender, and class, which I have engaged with via coursework in various disciplines, have undoubtedly influenced how I perceive the world. By analyzing my reactions to Strauss' images, I may recognize exactly how these critical studies have altered my perception and how this project joins Social Justice Studies with art, which to some may seem an unlikely pair.

MULTIPLE MYELOMA: USING YOUR OWN BODY AGAINST YOU

Wendi Anne Bacon

Myeloma is a fatal blood cancer that results from the uncontrolled proliferation of dysfunctional immune cells, known as plasma cells, which take over the bones and prevent healthy blood cells from forming. Although current chemotherapy can force myeloma into remission, relapse is inevitable. Current theories suggest that myeloma cells are dependent on and protected by the bone marrow environment, but the intricate sets of signaling pathways and mechanisms maintaining these cells remains an active area of investigation. Other less prominent hypotheses propose that myeloma results from a cancer stem or progenitor cell.

In this project for my Honors thesis in Biochemistry, I reviewed literature concerning these theories, focusing on the impact of the bone marrow environment on proliferation and drug resistance of myeloma cells. With this knowledge, I created a grant proposal for experiments that could improve our knowledge of the cellular mechanisms of drug resistance and efficacy.

This research is inspired by an internship at Duke Medical University, where I was able to perform clinical research analyzing the efficacy of chemotherapeutic agents for myeloma. As part of my current project, I proposed a regime of experiments that would analyze the cellular mechanism of one of the agents I studied from a clinical perspective at Duke.

WHY IAGO SOUNDS FUNNY IN SPANISH

Wendi Anne Bacon

Ever wondered why Iago sounded so funny in Aladdin? Or why the Lion King's Scar and Pocahontas's Governor Ratcliffe seemed so evil? Their accents! Scar was raised in the shadow of his older brother Mufasa, constantly outcast for his small size and for cavorting with hyenas; nevertheless, his British accent makes him seem insidious rather than pitiable. The comedic relief and villains of Disney movies often have strong foreign accents, while the protagonists reveal standard, mid-west American accents, i.e. Jasmine, a princess in Agrabah, speaks with the same accent as Aladdin, a street-dweller.

As an avid Spanish student and lover of Spanish linguistics, I found myself wondering how these accents and these stereotypes were dubbed into Castilian Spanish. What is the British accent equivalent to a Spaniard? How do you dub a New Jersey accent? (Hint: Latin-America plays a role.)

In this study for my Honors thesis in Spanish and Hispanic Studies, I compare the accents found in the original Disney films with the accents found in the corresponding dubbed versions. Furthermore, I examine other facets of speech that can add to a character's linguistic comedy and stereotyping, such as non-standard vocabulary and sentence structure.

HEALTHY FOOD FOR ALL:
A MODEL FOR THE FUTURE OF HARMONIOUS CONSUMPTION

Lucia Berliner

Healthy Food for All is an organization based in Ithaca, NY dedicated to making locally grown food accessible to people from all socioeconomic backgrounds. Through grant writing and fundraising, the organization is able to subsidize the cost of Community Shared Agriculture (CSA) shares, a weekly portion of a farm's produce, fruit, and/or meat, so that they are affordable to everyone. Born in 2006, the organization now enables over 100 families to have access to nutritious and locally grown foods.

I began my work with Healthy Food for All during the summer of 2011. Initially interested in the ways that food and celebration can enrich and strengthen communities, I found myself at one of Healthy Food for All's Harvest Dinners, the organization's primary source of fundraising, and made possible through donations from local farmers and volunteer work from popular Ithaca chefs, musicians and makeshift waiters. I knew this would be the focus of my film.

Throughout the summer and fall semester, I interviewed many of the farmers and chefs involved in the organization, professors and the program coordinator. I then created a documentary that allowed them to tell their own story: the reason for starting the initiative, who it benefits, how it operates and why they continue doing what they do. I hope that this film can serve as a template for other communities to find ways of supporting local agriculture and fostering healthier communities.

BUILDING COMMUNITY: ASSESSING HEAD START NEEDS

Kitwan Billy, Serena Holtsinger, Charlotte Lysohir, and Emily Ross

Head Start is a Federally-funded program that works with young children of low socioeconomic status to ensure that they have adequate preparation for both the academic and social aspects of the public school setting. We are in liaison with the Ontario County Head Start Headquarters (located in Geneva, New York) to develop three things: a household survey, a community needs survey, and a comprehensive map of boundaries and services useful to Ontario County families. In creating these surveys, we looked at past Head Start surveys and community needs assessments to deduce areas of issue for Ontario County families and Head Start children. We are responsible for circulating and analyzing the first survey and creating a template for the second, as well as creating the comprehensive map.

The needs of low-income Ontario County families and children are ever-changing, and it is our job to pinpoint those needs so Head Start and the surrounding social services can better serve county families. In addition, our surveys will help determine where these funds are being utilized. Additionally, if successful, the survey template we created will be used by Head Start in the future.

It is the hope of the research team that the surveys will yield valid and reliable answers to the question of the kinds of issues that low-income Ontario County families and children face. We also hope to provide our client with useful information that will enable Head Start to better serve the Ontario County public now and in the future.

PRECIPITATING THE FUTURE OF TECHNOLOGY: THE DESIGN, SYNTHESIS, AND CHARACTERIZATION OF MOLECULAR WIRE CANDIDATES

Adam Brooks

My honors project in Chemistry has been focused on the synthesis and design of molecular wire candidates: materials that are currently being investigated by researchers around the world as a potential new technology to replace the silicon chips used in many small electronic devices today. By using molecular wire candidates the processing ability per unit area in the device can be exponentially augmented, allowing for the possibility of true nanotechnology.

The molecular wire candidates that I am investigating are synthesized using a bottom-up approach. This approach has allowed me to tailor how I put the “pieces of the molecule” together to create a new compound. My ability to tailor the structure has allowed me to create materials that have different end groups, metal binding sites, and overall sizes. I am particularly interested in preparing molecular wire candidates with a thiol (SH) end group that allows for these materials to be attached to a gold surface, a key requirement in the construction of self assembled monolayers (SAMs) that are present in small devices.

To date I have prepared a number of building blocks and molecular wire candidates; I will also discuss future directions for this project.

CONSULTANTS FOR ONTARIO COUNTY VETERAN EQUITY

Michael Brown, Meagan Coakley, Jarrid Fish, Mary Jameson

Soldiers of foreign and domestic wars have served their country, yet they are not receiving the support that they need in return. Our group the Consultants of Ontario county Veterans Equity, or C.O.V.E., has compiled data that shows that veterans in Ontario County have limited access to resources in terms of food, housing and jobs. Our client, The Finger Lakes Addiction Counseling and Referral Agency, or F.L.A.C.R.A., has identified the lack of a comprehensive, compiled list of resources as the cause of the problem.

C.O.V.E. will be compiling a resource guide, which will be a concise method of organizing resources. We will use the “snowball sampling” method: forming connections with contacts with resources, and then forming new contacts through their connections.

The goal for an end result is an electronic database or a booklet with all of the information available. We hope to show that there are enough resources for veterans in Ontario County and we hope to compile information that will be beneficial for generations of veterans to come.

THEORIES OF MIND AND NEUROPHYSIOLOGY:
CONSCIOUSNESS AND THE VISUAL SYSTEM

Jonathan Bruno

My project for my Honors thesis in Philosophy focused on “the hard problem of consciousness.” This “hard problem” is the investigation of how the physiological processes of the brain culminate in subjective phenomenological experience.

Understanding the nature of human experience and consciousness has been a persistent undertaking spanning the length of human history, yet of the two premier perspectives of inquiry into this hard problem, psychology and philosophy, there has been a failure in cooperation and reconciliation between their respective methodologies and findings. I wish to bridge the subject of philosophy by analyzing four respected theories of mind in relation to the empirical data we have on the brain through the field of neuroscience.

I hope to discern which theory(s) describe the phenomena of consciousness best, with the goal of ultimately reaching a revised consensus and more accurate interpretation of consciousness.

TEACHING CHARACTER THROUGH THE CHARACTERS IN CHILDREN'S BOOKS

Jaime Callan

My project for my Master's in Teaching explores the varying forms of character education currently implemented in schools. It examines the various methods to determine what components distinguish superficial attempts at developing character from quality character development.

As a future elementary educator, I discovered that there is a tendency for many schools today to settle for compliant behavior rather than provide opportunities for their students to engage in thoughtful reflection about moral decision making.

When students are extrinsically motivated to behave in accordance with school rules, they lose sight of why such behaviors are important. Children should understand that their actions affect the wellbeing of themselves and others. Using children's books as a tool for moral discussion allows children to connect their own experiences with the experiences of the characters. It is through this process that teachers can guide children in the exploration and discovery of the intrinsic value of moral actions.

I generated a guidebook for teachers to easily incorporate character education into the already established curriculum using children's books. The books included in the guidebook were carefully selected to lend themselves to meaningful moral discussion. Questions for discussion are suggested as well as follow up activities. Character-related goals also are aligned with the core curriculum standards for the ELA and social studies curricula.

SUBSTANDARD HOUSING IN GENEVA

Leslie Carrese, Cristian Cedacero, Melanie Devuyt, Chelsea England

Substandard housing is a serious issue that negatively affects people's health, sense of security, privacy, and their ability to work. To address this problem in Geneva, we are collecting the data needed for Catholic Charities and its community partners to secure grant funding.

We first conducted a literature review to conceptualize and define the issue, and will quantify the volume and density of substandard housing, and are gathering data on the volume and density of substandard housing by communicating with local offices and offices of other communities. We will then assess and determine the most useful and accurate data. Lastly, we will compile all existing data into one list to be used by Catholic Charities and their community partners.

This project also serves as a call to action for future research consultants and organizations, for this is an issue that deserves the community's attention.

THE SUBJUNCTIVE LIFE

Timothy H. Carter

Try this: “Next door to my life a man who looks exactly like me is eating cake at his kitchen table, and he’s smearing it all over his fat face.” Or this: “Stuck in this unrelenting monorail called life, you’ve lost your admissions ticket and are unsure, were you to quietly slip out the hatchway for a drink, whether you’d be allowed back in.” Or, perhaps: “When I am walking alone at night I imagine that you are walking next to me, and I say everything the right way, and you laugh, and are sweet. Over time I grow to like the imaginary you and take more walks at night just so we can be together without you being there.”

Each sentence suggests a sense of yearning and parallelity, the idea that if we were *just able to reinvent life* consciousness would cease to be such a penance. My project for Honors in English, *The Subjunctive Life*, is an experiment in reinvention. I spend most of my energy dreaming; there are no lines between what is and what is not. Each poem in this collection is a separate dream, formed by reformulating details taken from real life: jokes, eavesdroppings, blatant theft, and perceptual typos. In here, the physics are all wrong: “Both of us are the world’s tallest buildings and we’re both taller than each other.”

FIELDING INJURIES, COURTING GENDER: PERCEPTIONS OF INJURIES AMONG MEN AND WOMEN STUDENT ATHLETES

Meagan Coakley

Athletes experience a high rate of injuries due to the nature of their competitive activities. When faced with injuries, athletes respond in a number of ways and a variety of emotions. Each athlete creates his or her own unique understanding of what that injury means, and reacts accordingly. These perceptions are the result of a variety of factors. Such factors include gender, sport, and team dynamics.

The goal of my Independent Study project in Sociology was to develop a detailed understanding of how athletes perceive injury and what factors influence their experience. To do this I conducted a series of in-depth interview with men and women from comparable athletic teams. I also reviewed relevant literature that focused on athletic injuries and the sociological analysis of gender and sports.

The results of my project can be used in the future to further our understanding of how people experience and attach meaning to injuries in gendered ways.

MEMORIES OF WAR:
THEODORE ROOSEVELT AND HENRY CABOT LODGE'S
MEMORY OF THE CIVIL WAR AND THE SHAPING OF AMERICAN
MASCULINITY, 1880-1910.

Michael Copacino

In this project, I researched the ways in which the Civil War was remembered by the social and political elites from 1880-1910. This question came out of an initial interest in Theodore Roosevelt's writings on the war and expanded to include Henry Cabot Lodge's memories because of the common understanding of the war that came out of their close friendship. My research answered the question: how did these two Americans' perceptions of the war impact their thinking of themselves as men and their foreign and domestic decisions as leaders?

To answer this question, I explored a range of primary and secondary material, focusing heavily by writings of Lodge and Roosevelt themselves. Both President Roosevelt and his Secretary of State Lodge would have been young boys at the time of the U.S. Civil War, old enough to be profoundly influenced by the glorious images of troops going off to war, but not old enough to comprehend its horrors. As they grew into adults they viewed the war as a great maker of men without understanding all the pain and suffering it caused. As a result, they felt inadequate for never having participated in a war, contributing to their lifelong preoccupation with their own manhood.

This preoccupation also influenced many of their important foreign and domestic policy decisions, including the decision to engage in the Spanish-American war and the decision to enter World War I, as well as the promotion of other "manly" alternatives to war, like organized competitive sports.

WOMEN'S PATRONAGE IN ROME:
PARALLELING ANNA COLONNA AND ST. TERESA OF AVILA

Sarah Cutts

My project for my Honors thesis in Art History explores three main questions: (1) What was the role of elite women art patrons in sixteenth and seventeenth century Rome? (2) If such women were from papal families, what sort of advantages did they have? (3) How did these elite women represent themselves in the art they commissioned?

This project began percolating in my mind last April while I was studying abroad in Italy, and is the outcome of my desire to continue the intellectual journey when returning to the States in the fall.

Eventually I honed in on a specific woman patron from a papal family named Anna Colonna Barberini. I explored the motives behind her choice to commission Giovanni Francesco Romanelli to paint an altarpiece named *The Ecstasy of Saint Teresa*. I am hypothesizing that Anna Colonna Barberini chose St. Teresa of Avila as the subject of this altarpiece because of their parallels in spiritual values, beliefs regarding women and the church, and specific traits of their personalities. My hope is that this project will bring to light some essential dynamics of women's art patronage in this period.

“RACE-ING” SEX AND “SEX-ING” RACE: THE INEXTRICABILITY OF
RACIALIZED VIOLENCE, SEXUALITY, AND GENDER IN 19th- AND 20th-
CENTURY
AFRICAN- AMERICAN LITERATURE

Augusta Davis

Characters in African-American literature are forced to define their gender and sexuality through the narrow but complex lens of racial violence. The constraint of violence registers physically and psychologically, and each is inextricably bound to the other.

This project, a work in progress, extends work on race and sexuality in previous courses, including 19th-Century African-American Women Writers, Introduction to African-American Literature, and Women’s Studies classes. Using the concept of race as a hereditary construct in the United States, I argue that sexualized racial violence is generational, resurfacing along a historical continuum in African-American literature. I draw from autobiography and fiction from the mid- 19th century to the late 20th century, including Harriet Jacobs’ *Incidents in the Life of A Slave Girl*, Nella Larson’s *Passing*, Chester Himes’ *If He Hollers Let Him Go*, Richard Wright’s *Black Boy*, and Toni Morrison’s *Beloved*.

This project defines common characterizations, stereotypes, and tropes in African-American and Caucasian characters of both sexes in relationship to each other in a historic cultural context. I aim to connect racialized sexuality and sexualized race to images potent in popular media today such as music videos.

LEAD, GROW, AND INSPIRE: LINKING LEADERSHIP TO THE ELEMENTARY EDUCATION CURRICULUM

Caroline Dosky

This topic is the focus of my Master's in Teaching project, which will explore the following questions: "How do elementary school students exhibit leadership attributes based on core developmental patterns?" and "What are the ways that the general curriculum can encourage all students to be active leaders within both the classroom and their lives?"

This project is a work in progress that includes two key components: an extensive literature review on the connection between leadership, elementary-age students, and the public school curriculum; and a professional development workshop for elementary school teachers about leadership in children. My workshop will serve as a way for students to discover the complexity of leadership within their own classroom and curriculum.

My passion for this topic grew from my interests in education, child advocacy, and leadership. My experience in the Education Program, the MAT program, and my varied leadership experiences and trainings on campus serve as an optimal foundation for my exploration. I believe that leadership education can become an integrative, unique aspect of the general curriculum that can help students understand their full potential while working towards a brighter future.

UNDERSTANDING AND TREATING CHRONIC PAIN

Ashley Drake

Chronic pain affects millions of Americans every day, and will be a problem for many people at some point in their lives. This type of pain is frustrating because it is difficult to diagnose a single clear-cut cause for the pain and, therefore, specific treatment plans are virtually nonexistent. Relief can often remain elusive when utilizing traditional physical therapy techniques.

My studies as a Movement Science major have encouraged me to seek therapeutic treatment plans that promote increased flexibility while simultaneously stabilizing the major joints of the body. My projects have focused on a holistic approach to therapy, one that incorporates wellness, relaxation and breath connectivity as key factors in the therapeutic process.

The specific treatment plan I developed for chronic pain sufferers caters to individual body compositions and attends to the entire body rather than only the injured area; the exercises in the program were designed to decrease undue stress on the skeletal structure. The program includes dynamic and sustained stretching, body weight strength training, and constructive rest relaxation exercises. This combination of mobility and strength is intended to decrease stiffness and improve muscular imbalances that could be the cause of various persistent aches and pains. The hands-on, integrative approach focuses on decreasing pain and not simply seeking a specific diagnosis.

BEAR STEARNS, LEHMAN BROTHERS, AND THE FEDERAL RESERVE:
WHO IS TO BLAME?

Laura Duquette

Many critics look to the failure of Lehman Brothers and the subsequent neglect of the Federal Reserve as the point of impact from which the Financial Crisis of 2008 stemmed. Look back to Bear Stearns and the events that took place one weekend in March 2008, however, and a primary point of origin can be established: the bankruptcy of Lehman Brothers, the largest in history, set off an eruption of panic and a flight to quality as creditors were exposed, but the seed for the Lehman Brothers collapse was planted in that of Bear Stearns.

The involvement of the Federal Reserve Bank of New York in the JP Morgan Chase acquisition of Bear Stearns set a precedent back in March of 2008 that unintentionally calmed the fears of investors; September 2008 revealed it was too little, too late.

The object of this paper is to reveal the links between each of these three events, the causes and effects, and the actions taken by individuals and financial institutions – Bear Stearns, Lehman Brothers, the Federal Reserve Bank – to determine where the fault lines appear(ed) in the unfolding of the current financial crisis.

THE CAUSES AND SHORT-TERM CONSEQUENCES OF THE 2007-10 FINANCIAL CRISIS

Scott Earl

This project seeks to identify, in accessible, non-technical language, the primary causes and the short-term consequences of the 2007-10 recession. To understand the recession, it is commonly said that one must understand both the atmosphere preceding and the atmosphere during the recession: one must pay close attention not only to the degree to which financial regulation was loosened, but also to the level of complexity to which financial innovation was elevated.

This loosening of financial regulation led to the rise of the shadow banking industry and to the increasing complexity of financial instruments, which, in turn, led to a destabilization of the entire financial sector. The destabilization first surfaced when the subprime mortgage bubble collapsed, causing the previously reliable, but complex, financial instruments to behave unexpectedly. As these instruments unwound, causing heavy losses, financial institutions were left with nothing to do but wait and hope that they gambled correctly. This period saw the collapsing, and at times, the bailing out of several financial institutions with names like Lehman Brothers, Fannie Mae, Freddie Mac, Washington Mutual, Wachovia, AIG, and CitiGroup.

Allowing a broader audience to understand the causes and effects of the financial crisis will help deter future meltdowns by creating an informed public that can recognize them before they occur. This project will serve to provide that educational link between the complex financial system and the common man or woman.

SEEING COLORS: PLACE, CULTURE AND IDENTITY

Elsie Essien

My project is a collection of personal essays and poems I have written that analyze the role that culture, language and place play in forming one's identity. Specifically, the essays focus on my own Ghanaian background and how it has shaped my concept of identity in America. Most of the essays are based on past memories; however, the narrator in each essay reflects and steps out of the role of a storyteller in order to make sense of the concept of identity.

This project is my attempt to piece together my own history as well as my family's history and an effort to create dialogue between myself and my family members. Most importantly, it is a way to utilize elders as living history books and resurrect oral tradition. This project first started as part of my senior independent study, but I hope to continue writing many more chapters of the essays long after I leave the Colleges. This presentation will be drawn from one essay that analyzes and questions the portrayal of a monolithic black identity in American culture.

HAITI THROUGH THE LENS

Daphney Etienne

For my honors project in Writing and Rhetoric, I am analyzing how three Haitian artists represent Haiti in their work. Through these representations, writer Edwidge Danticat, musician Regine Chassagne and photographer Daniel Morel also reveal and construct their own immigrant and itinerant identities.

In this presentation, I will focus on the photographs of the Haitian Earthquake taken by photographer Daniel Morel to explore not only his construction of Haiti and Haitians, but also his construction of his own professional identity as a photographer at the scene of the disaster. I will attempt to delineate in my analysis if and how his photographs reaffirm the stereotypical images of Haiti and/or present Haiti and Haitians in a light that disrupts the stereotypes. Embedded in this analysis is also the question of ownership of the photographs and the right to disseminate one's work through social media to the wider public.

My findings suggest that Morel's representations of the earthquake in Haiti cannot be understood without considering the politics, the ethics, and the context of representation that foregrounds Morel's own stakes in constructing his professional identity as a photographer.

FINANCIAL INNOVATION: DEVELOPMENT, PROPAGATION, AND CRISIS

David Fay

The audacity of financial practitioners and academics played an integral part in establishing the circumstances that precipitated the financial crisis of 2008. Constructed by physicists and bolstered by ambitious economists, financial engineering and quantitative valuation/trading methods have come to dominate Wall Street under the auspice of the “pursuit of efficiency.” A period of relative economic stability following WWII (Minsky, 1992) and the rise of neoclassical economics created an environment in which “gradualism” (Bernanke, 2004) was declared and banks believed, based on historical mean reversion-based models, that they could predict the future with certainty. An explosion in trading technology, the pioneering of the Black-Scholes and Gaussian coupla models,(Salmon, 2009) and a pan-systemic believe that economic cycles were over contributed to the largest financial calamity the world has seen since the Great Depression.

This paper will examine these conditions, their development, and the impact of their proliferation on the economy. The process of relying on historical trends, the belief that the world is an ergodic system,(Davidson, 2002) the maximum employment of leverage, and the belief in a self-regulating system has created a financial and regulatory paradigm in which economic stability is impossible to achieve. In offering a solution to this problem, this paper will rely on, among other sources, the policy recommendations of Rick Bookstaber and Éric Tymoigne. These suggestions include, but are not limited to, treating financial innovation in a fashion similar to medical innovation (Tymoigne, 2009) (prolonged testing and evaluation periods), the elimination of financial instruments that serve no economic purpose (Bookstaber, 2007) (profit machines), cash-flow instead of capital-based financial regulation (Tymoigne, 2009), and the de-conglomeration of the financial sector based on empirical evidence regarding the economies of scale in that industry.

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POPULATION SURVEY OF *CORBICULA FLUMINEA* IN THE FINGER LAKES CANAL SYSTEM: AN INVESTIGATION OF SUITABLE LAKE STURGEON HABITAT

Bart Flynn

Because of their increasing prominence, invasive exotic species are becoming common topics for research in the Finger Lakes region. Among these invasive species are familiar names such as Eurasian watermilfoil (*Myriophyllum spicatum*), zebra mussels (*Dreissena polymorpha*), quagga mussels (*Dreissena bugensis*), and Asian clams (*Corbicula fluminea*), all of which have profound effects on their aquatic environment. While most research focuses on efforts to alleviate impacts of these species from the ecosystem, this project is focused on a potential benefit of invading Asian Clams. In an effort to restore Lake Sturgeon in the Finger Lakes, the USGS is surveying the canal and river system north of the lakes to determine whether there is suitable habitat for Lake Sturgeon. The presence of Asian Clams would provide a rich food source for the Sturgeon and promote the spread of the fish into the Finger Lakes.

My research has focused on surveying the populations of Asian Clams in the Seneca River, Cayuga River, Clyde River and Erie Canal. Benthic grab samples were collected at 0.5 km increments along each river, reserved, and analyzed in laboratory. All live *Corbicula* were counted and measured. In addition, the presence of dead *Corbicula* shells, live zebra mussels and quagga mussels, and benthic macroinvertebrates were recorded. Relatively high densities of *Corbicula* were found throughout the Seneca River, while the Cayuga River and Erie Canal had much more segmented, inconsistent distributions. Since higher densities of *Corbicula* were found in the Seneca River, we can conclude that it will provide a more supportive environment to the Lake Sturgeon as populations are restored.

REDEFINING THE FINANCIAL SECTOR: A SUSTAINABLE BANKING MODEL

Keith Forman

Global financial stability has surfaced as a core prerequisite for sustainable development. Since the credit crunch in 2008 and the emergence of the financial crisis, politicians, policy makers, legislators, and financiers have continually debated the proper strategy in designing a stable financial system that can deliver sustained and balanced economic growth. With governments funneling over ten trillion dollars towards their respective financial sectors and economic stimulus plans to keep their economies breathing, millions of honest, hard-working individuals have seen their savings, pensions, jobs and homes crumble.

Questioning whether it is morally, socially, or economically viable to invest such large amounts of public money into salvaging firms that design, package, and market unsustainable products is necessary in evaluating the collapse the global banking industry. The sector has ignored the critical role of over-the-counter markets and the highly complex financial instruments that have evolved from an under-regulated system. The resultant opaqueness in the markets have allowed some of the world's largest financial institutions to profit off of their own corruption, turning their backs on societal welfare.

Essentially, the economic crisis has demanded a revaluation of the current financial model and has shed light on a system that has undervalued the role of social and environmental influences. In this paper, I am going to introduce the importance of these previously ignored factors, and stress the urgency of financing environmental and social opportunities in emerging markets, and discuss the implementation of these concerns into product design, banking strategy, and policy.

CREATIVE MOVEMENT WITHIN THE ELEMENTARY CLASSROOM

Rebecca Fry

For my Master's in Teaching project I am exploring the integration of creative movement into the elementary classroom. The main question driving my project is "What are the benefits of incorporating and utilizing creative movement within the classroom?"

My interest in this projects stems from the opportunity to combine my two passions, teaching and dancing. As a future elementary educator, I also find myself discouraged with the lack of movement within many education classrooms; movement should not be removed from the classroom, but instead embraced.

I have created a resource guide that will help elementary teachers begin to utilize and implement creative movement. This resource guide will help educators understand that creative movement provides both academic and developmental benefits to students, and makes learning a more enjoyable and engaging process. Educators will also finds sections that focus on common myths associated with creative movement, techniques and methods they can utilize, and a variety of lesson plans that illustrate how one can teach different content areas through creative movement. This resource guide can help elementary educators open the door and let creative movement dance its way into their classroom.

\$WAGONOMICS

Isaias Garcia

In response to college students' acquisition of debt and the staggering unemployment rate, I am creating *\$wagonomics: The Financial Empowerment Handbook*. This Electronic textbook contains a three-fold multimedia-driven curriculum consisting of innovative peer-educating workshops, a facilitator's guidebook, and inventive student assessments. *\$wagonomics* offers students interactive financial exercises that encourages them to discuss personal experiences, while creating a socioeconomic sphere that will inspire students to achieve their self-determined greatness.

Created for my Honors thesis in Writing and Rhetoric, this project stems from my scholastic and work experiences as an independent student at Hobart College. The e-book's design follows the effective practice of pedagogy model within the classroom. Research suggest that students sustain more knowledge through peer-education than through the traditional "teacher – student" exercise of power and authority. In order to better prepare students to reach their potential as responsible and productive citizens, my education platform implements a social environment that influences students to comprehend their daily transactions as consumers through *\$wagonomics* while pursuing their scholastic dreams in the classroom.

ENERGY SECURITY AND ECONOMIC CRISIS

Mike Garland

In the wake of the September 11th attacks, the United States made it clear that it would dramatically reduce its dependence on foreign energy, particularly Middle Eastern oil. From 2001 until the most recent financial crisis, massive investments were made into the energy sector, specifically targeted towards sustainable and clean energy projects, in an effort to limit our dependence on foreign energy sources. Since the most recent financial crisis, though, tighter credit and lower prices have deterred investment, especially riskier plays within the sustainable and renewable energy space.

In this paper, I will try to examine the ill effects of under-investment in energy infrastructure during the crisis, a recent development of energy finance since the crisis, and how each of these respective consequences changes our country's energy security and prices, and explore effects on potential economic growth of the United States.

At a crucial time when scientists, economists, and scholars all differ in their opinions regarding current supplies of fossil fuels as well as the future for the most feasible energy solution, our markets are left fragile and unsteady, driven not only by market forces, but also by speculation. Failure to invest in our own energy space will have detrimental consequences to economic growth, but a conscious commitment of dedicated capital, research, and development will help the United States regain its stronghold as the world's superpower.

UNDERSTANDING THE DEVELOPMENT OF THE ANTENNAL IMAGINAL DISC IN *HELIOTHIS VIRESCENS*

Yanli Guo

Developmental biology is the study of the process by which organisms grow from embryos into complex individuals. A central focus of my research is to study how moth *Heliothis virescens* embryos create highly specialized cells within the antenna that are used to detect sex pheromones. Understanding the molecular and cellular activities necessary for the *H. virescens* antennal development will provide new information for insect sensory biology.

Antennal development has been studied in other insects, such as the fruit fly (*Drosophila melanogaster*), silk moth (*Bombx mori*) and the tobacco hornworm (*Manduca sexta*). Researchers have identified *homothorax* (*hth*), *distal-less* (*dll*) and *atonal* (*ato*) as critical genes for the antennal formation in many insects. These genes encode transcription factors that control the formation of the antenna. They are expressed at specific times and regions during antennal development. For example, in *Drosophila melanogaster*, *dll* and *hth* cooperate to induce antenna differentiation via the regulation of multiple genes.¹ The proneural gene *ato* is responsible for the specification of antennal sensilla in a subset of olfactory receptors in fruit flies.² Although the antennal structure varies among species, the expression and function of these transcription factor genes are highly conserved in many insects.³

My research aims to identify the *Heliothine* versions of genes known to be involved in antennal development in other insects. This project has two different goals: a) clone the *homothorax* homologue in *H. virescens*, and b) determine the genetic expression of *dll*, *ato* and *hth* in the *Heliothine* antennal imaginal discs during the 5th larva instar and pupal stages through *in situ* hybridization. Understanding the expression and function of *dll*, *ato* and *hth* in moth *H. virescens* will allow us to perform comparative studies of the embryonic events necessary to generate the moth antennae and provide further insights into insect sensory biology.

¹Dong, P.D., Kicks, J., Panganiban, G. 2000. *Distal-less* and *homothorax* regulate multiple targets to pattern the *Drosophila* antenna. 129:1967-1974.

²Jhaveri, D., Sen, A., Reddy, V., and Rodrigues, V. 2000. Sense organ identity in the *Drosophila* antenna is specified by the expression of the proneural gene *atonal*. *Mech. Dev.* 99:101-111.

³Ando, T., Kojima, T., and Jujiwara, H. 2011. Dramatic changes in patterning gene expression during metamorphosis are associated with the formation of a feather-like antenna by the silk moth, *Bombyx mori*. *Dev. Biol.* 357: 53-63.

TYPE-2 DIABETES IN THE U.S. AS A SOCIOLOGICAL PROBLEM: CONFLICTS AND CONTROVERSIES

Owen Henn

While unprecedented professional consensus exists on how type-2 diabetes can be prevented and treated, the disease in the United States has reached epidemic proportions and continues to grow. The widespread use of information technology has provided a forum for dissenting voices, and some have come to criticize the authorities for treating diabetes in ways that at best do not work and at worst exasperate their condition. I became aware of these controversies when I began researching ways to best treat my own type-1 diabetes and found success by following an approach that had not been promoted by my own medical team.

The goal of this project is to introduce the conflicts and controversies currently surrounding the clinical care of type-2 diabetes in the United States. Diabetes is an epidemic that is often approached physiologically, but that also exists as a sociological problem characterized by institutional and social forces. I believe that any serious attempt to address the escalating problem of type-2 diabetes in the United States must in some way resolve the conflicts and controversies documented in this project.

BEYOND THE *QUR'AN*: JESUS IN MUSLIM ESCHATOLOGY

Alexander Hess

As shown by their perplexed responses to the eschatological role of Jesus in Islam, the negligent tendency of Western scholarship to exactly equate the *Qur'an* with Muslim beliefs has left scholars ill-suited to address the presence of Muslim attitudes and practices falling outside the text's prescriptions.

By referencing Islamic traditions and testimonials outside the authority of the *Qur'an*, as well as through a Foucauldian analysis of emotional responses to Jesus' crucifixion, my project positions the Muslim as the agent of his own religious tradition. This empathetic approach provides explanations as to how and why Muslims have supplemented the eschatological content of the *Qur'an*, providing a prominent role for Jesus reflecting their personal relationship to him.

In this work, the Muslim is treated as the principle determinant of the content of his own tradition, helping to reject the caricature of the Muslim as a parrot of his texts, as a blind adherent, and as a static participant in his own tradition and history.

THE EFFECTS OF URBANIZATION ON CASTLE CREEK AND ITS SURROUNDING WATERSHED

Joanie Hilton

Castle Creek, which runs through the heart of the City of Geneva, is just one of the many tributaries that flow into Seneca Lake. The Castle Creek watershed exhibits many types of land uses, beginning in rural agricultural fields and forest in the headwaters, towards suburban and urban land in Geneva. Watersheds are extremely important to not only the human population, providing recreation and drinking water, but also to a variety of biological life. However, recent studies have shown that urbanization can have devastating effects on biodiversity in watersheds, streams and their habitats. This project, under the guidance of Professor Susan Cushman, examines this devastation. The long-term goal of this project is to study Castle Creek throughout the year to better understand how both land use and seasonal variation impact our understanding of stream health.

Using both spatial and temporal scales, water quality measurements, habitat evaluations and macroinvertebrate community composition were used as health indicators for Castle Creek and its surrounding watershed. In each different land use area (3), two specific sites were chosen to collect these different measurements ($n = 6$). Each site was monitored once a month from February to April. Water quality measurements such as dissolved oxygen, pH, conductivity and temperature were all taken with a YSI meter at each site, and macroinvertebrate communities were sampled by disturbing the sediment of riffle habitats using a D-net. These samples were then immediately preserved in ethanol and processed in the lab. Habitat surveys were conducted at each site in April to observe riparian zones and adjacent land which affect the stream and its inhabitants. In the lab, 100 macroinvertebrates were sorted and identified to family from each site. These numbers were then used to calculate the Percent Model Affinity score for each site.

Preliminary data from February showed that the suburban sites had the highest PMA scores and therefore were the healthiest; however, in March, these scores decreased and the rural sites were highest along the rural to urban gradient. It was determined that there are more urbanization impacts in the urban areas of Geneva on the rural to urban gradient, and that restoration must be done continue the health of the rural sites downstream.

THE SUBPRIME MORTGAGE CRISIS: WHO IS TO BLAME?

Margaret Horner

This project will examine the ongoing debate over whether or not Fannie Mae and Freddie Mac, Government Sponsored Enterprises (GSEs), were the cause of the subprime crisis and what can be done in the future in order to prevent a similar catastrophe. Some believe the GSEs should be abolished due to the firms' reckless risk-taking during the housing bubble and cost to U.S. taxpayers. Others believe GSEs are not the only institutions that were involved with the crash of the housing market.

Mortgages are one of the most frequently discussed topics when exploring the current economic crisis. Defaults occurred on both GSE and private label mortgages; however, the private sector still faces a higher default rate.

My analysis suggests that the GSEs were irresponsible due to the implicit guarantee that the U.S. government would bail them out, and also that other firms saw this behavior and followed in order to compete within the growing mortgage market. This led to almost all of the mortgage firms issuing or purchasing subprime loans and participating in creating mortgage backed securities. A greater amount of regulation needs to be applied to all firms that are in any way involved in the mortgage market.

MJONDOLO: THE CRISIS OF SLUMS AND SQUATTER SETTLEMENTS IN SUB-SAHARAN AFRICA

Caitlin Hughes

Today, 61.7 percent of the urban dwellers in Sub-Saharan Africa reside in slums.¹ My project explores why this number is so great, as well as whether there is a realistic way to reduce the daunting number of slum dwellers in Sub-Saharan Africa.

My interest in housing affordability began while building houses in Nicaragua and persisted while studying abroad in South Africa and Jordan. I saw marginalization at its worst: multi-generational families living in shacks made out of aluminum and cardboard, with no electricity, running water or sewage. Living abroad put the housing crisis in perspective and launched me into my study of the unfeasibility of affordable housing.

I did my research through analysis of historical background, international analyses, and current data of South Africa. My project focuses on barriers to affordable housing in Sub-Saharan Africa, specifically in South Africa. I address the costs of low-income housing, the international minimum standards for housing, and what income levels are forced to live in informal, untenured structures.

My findings indicate that barriers include market failure to provide low-income housing and consistent government failure to supply it, as well as income/expense ratios that keep housing out of reach. Incomes are too low for many, and housing costs such as land, materials and amenities are too expensive. Even with significant government support, many low-income households in South Africa still cannot afford to rent, or even share, and so they squat.

¹ UN-HABITAT, *Affordable Land and Housing in Africa*, Vol. III (Nairobi: UNON, Publishing Services Section, 2011).

LA PASSION DANS LA LITTERATURE FRANCAISE DU 18EME SIECLE
(Passion in French Literature of the 18th Century)

Helen Hunsinger

What is passion? How is passion represented in 18th Century French Literature? What do these representations mean to the characters of French literary works from the 18th Century? How do these differing perceptions of passion implicate the actions of these characters?

Looking across several examples of French literature from the 18th century, I have discovered that passion has many distinct, contrasting interpretations. Among these varied definitions of passion are depictions of passion as both wonderful and terrible. Works such as “Manon Lescaut,” “le Jeu de l’Amour et du Hasard,” and “La Religieuse” demonstrate how characters in these works, such as the Chevalier de Grioux, Dorante, and Suzanne, are conflicted over the variety of forms that passion can take. These contrasting representations of passion are both defined and perceived in many ways by different characters.

Through this analysis of *la passion*, I hope to determine why it is that we, as college students and as human beings, face so much pressure to find or discover our passion.

ABSTRACTION AND ATMOSPHERE—EXPLORING COLOR RELATIONSHIPS

Gina Iannitelli

In this project for my Honors thesis in Studio Art, I am investigating incremental color relationships in artistic compositions that are simple and contain smooth lines. My paintings are composed of color acrylic paint on masonite panels. I aim to illuminate a subtle sense of atmosphere and perplexing boundaries of depth.

I progressed from still life and observational painting to abstract painting throughout my process. This abstraction allows the viewer to focus simply on spatial composition in lieu of recognizable subject matter. I feel that employing a color palette that contains dark hues and the occasional hint of gray poses challenges for me that I have not explored in my previous work. Moreover, these choices allow me to express myself emotionally through a method based on a balance between subconscious impulse and a desire for visual order.

As time progresses, I find through my practice a sense of comfort in the way that I work. I use the notion of action and reaction to guide my decisions about structure and depth. This mental state of discovery is important in Studio Art as a field because it veers from observation into emotive representation, which is highly relevant in the context of modernist painting.

HEALTH STUDIES: MIND AND BODY INTEGRATION

Maeve Keeton

Body awareness is the first step towards creating a sense of wholeness in one's life. This project takes an in depth look at how we have become disconnected from our bodies, and in what ways we can change to reconnect with them again. Additionally, I hypothesize that strengthening the patient-therapist relationship will allow for greater integration of the mind-body connection.

My interest in this topic comes from previous course work I have completed in Biology, Psychology, and Dance, as well as from my internship experiences and personal aspirations to become a licensed Acupuncturist. I have long believed that Western medicine in combination with Eastern medicine (such as Acupuncture) and other forms of naturopathic medicine (such as Somatic Therapy) will provide a holistic approach to health, wellness, and healing.

Through observations, research, and personal movement explorations, I have discovered ways to become more aware of my mind-body connection in order to utilize a more holistic approach to my own health. In order to demonstrate my thesis, I will guide the audience through simple body awareness activities. I will also discuss the emotional centers of the body, the body's relationship to space, and the importance of grounding for both the movement therapist and the patient.

BUILDING BRIDGES: CREATING CONNECTIONS BETWEEN PEOPLE, ORGANIZATIONS, AND COMMUNITIES VIA AFTER-SCHOOL PROGRAMS

Ryan Kincaid

In the past 20 years, after school programs have become increasingly popular and diverse. Their widespread and varied use speaks to an assortment of issues that have arisen in relation to education and is a focused effort to support students in a meaningful way.

During my sophomore year, I researched an after-school program in Syracuse which brought together students from Syracuse University and a local elementary school. Inspired by the transformative nature of this program, and in response to a need within the local community, I designed an after-school program that would pair Hobart and William Smith students with Geneva youths in an effort to build relationships, provide opportunities for experiential learning, and, ultimately, combat Geneva's declining graduation rate. Ultimately, I would become involved in fewer primary programs.

For my Master's in Teaching Project, I analyzed the material generated through my work with after school programs, and created a zine which interweaves relevant literature with my personal experience. Offering research, case studies from my programs, and helpful hints, this guide is intended for those interested in creating after-school programs as well as participants in existing endeavors.

MOLECULAR WIRES: THE SYNTHESIS AND CHARACTERIZATION FOR THE RACE IN TECHNOLOGICAL ADVANCEMENT

Kristen Kush

Each day we utilize technological devices to perform various functions throughout the waking hours. These electronics are produced according to the *top down* approach and continue to get smaller as new models arrive: a large piece of silicon that is trimmed down to the appropriate size followed by the addition of transistors on the silicon chip. Unfortunately this era will soon come to an end due to limitations of the small scale and current methods employed to reach it.

My honors thesis investigates an alternate route for the production of technological capabilities in devices of the future. This route is the *bottom up* approach because it begins with small pieces or molecules, bonded together to make a larger macromolecular system in a controlled, stepwise fashion. The molecules I investigate are known as molecular wire candidates because of their potential to act as an important component in prospective electronic gadgets.

In the de Denus research laboratory, previous researchers have synthesized small organometallic building blocks. These building blocks combine transition metals with small organic frameworks. I have taken the research a step further and expanded our current set of small, single-substituted molecules to include di-substituted compounds with more tailorability. Having this new functionality leads to the opportunity for intricate molecular wire candidate synthesis and utilization in future technology.

THE BASEL III ACCORD FOR FINANCIAL STABILITY: PROSPECTS AND IMPLICATIONS

Terje Larsson

The Basel III Accord follows in the footsteps of Basel I and II, and attempts to reduce financial instability through a reform of bank capital and liquidity standards.² Even now, before the reforms have been fully implemented, it has been argued that the standards are not enough and are merely “speed bumps” in the context of how financial crises come and go.³

The results, or rather lack thereof, of the previous Accords have shown that increasing the required capital of banks has done little in the way of promoting a stable financial system.⁴ It has even been argued that the Accords increased instability and promoted a risk-taking behavior of the banking sector.⁵ This paper will show how the Basel III reform yet again falls into this trap, and fails to recognize the nature of bank operations, the need for position-making, and how capital costs, or risk, can be transferred out of jurisdiction.⁶

The failure to address these fundamental financial system problems leads to a less than satisfactory base for regulatory reform. I will argue for an alternative approach to regulatory theory and the goal of achieving financial stability.

² Turner, Aidar, *Leverage, Maturity Transformation and Financial Stability: Challenges Beyond Basel III*, Cass Business School, 16 March 2011.

³ Wray, Randall L, *A Minskyan Road to Financial Reform*, Levy Economics Institute, March 2011

⁴ Blundell-Wignall, Adrian and Atkinson, Paul, *Thinking Beyond Basel III: Necessary Solutions For Capital and Liquidity*, OECD Journal: Financial Market Trends, Volume 2010 – Issue 1

⁵ Bessis, Joel, *Risk Management in Banking*, John Wiley & Sons LTD, 2010.

⁶ Tymogine, Eric, *Basel III and Financial Stability: A “decisive breakthrough”?*, Levy Economics Institute, September 2011.

INCORPORATING RELIGIOUS STEREOTYPES AND MEDIA LITERACY INTO A SECONDARY SCHOOL ELECTIVE COURSE

Christa Levesque

We live in an increasingly multicultural society. A key feature of our progressively more diverse society is its multi-religious character. For secondary students to begin to understand their peers, they must try to understand diverse religious backgrounds. Students should also be encouraged to be critical and analytical thinkers; combining critically reflective teaching practices with the study of religions in an engaging way is an effective way to reach students.

Popular media, including newspapers, movies, television shows, and music/music videos, all give valuable information about religion, but it may or may not be the truth. Learning about religion through media culture, however, helps bring students into the conversation and allows students to learn the historical facts about religions while also becoming critically reflective about the media they consume.

My curriculum attempts to combine media and religious literacy to help foster a critically reflective and aware citizen. Using skills I have learned through the Education Program and Master of Arts in Teaching Program, I integrate meaningful lessons and unique assessments while staying within the guidelines of the New York State Standards for Social Studies and English.

A MATHEMATICAL MODEL OF HBV/HDV CO-INFECTION

Yaixin Liu

In my honors project, I am studying a mathematical model describing the interaction between human liver cells, hepatitis B virus (HBV) and hepatitis delta virus (HDV). HDV can only infect patients who are already HBV-infected, and it causes more severe damage to liver cells than HBV alone. This project is an extension of my summer research, which focused on analyzing the impact of HBV and HDV on immune exhaustion. Shifting the emphasis to the dynamics of the infections, my current work will shed light on what causes the severe damage to liver cells.

I have created mathematical models of the system, building from a simpler model of a single infection, and used this model to explore the possible outcomes of HBV and HDV co-infection. I have also created computer simulations to support my analytical results. By manipulating the magnitude of different parameters, I managed to understand how different host and viral factors affect the severity of disease.

Studying the co-infection of HBV and HDV can provide theoretical guidance with antiviral therapy development. The treatment for HBV exists, but the same treatment does not work for HDV infected patients. A better understanding of the system is urgently needed because of the severity of HDV infection.

SKOLKOVO: A START, BUT NOT A SILVER BULLET

Thomas Luly

My examination of Skolkovo, a Silicon Valley-inspired technology park currently under construction near Moscow, aims to answer several questions: Is it possible to successfully foster an innovative milieu in a top-down, state-directed manner? Can such a project shape a national economy in manner that can bring about a lasting transformation? Does the active involvement of the state help or hinder these efforts? And finally, what are the political ramifications of such projects, especially in regard to ruling elites with a vested interest in the status quo?

Although considered by many to be an emerging economy with the potential for a promising future, Russia has not been able to fully shake the economic legacy of its Soviet past. Indeed, the economic crisis of 2008-9 displayed the extent to which the Russian economy, currently dependent upon resource extraction, desperately needs a thorough restructuring. Russian President Dmitri Medvedev charged Skolkovo with the task of diversifying and modernizing the entire Russian economy, and pledged billions of dollars in state funding to help achieve this goal.

Much has been said in the last few years by both proponents and detractors of Skolkovo's modernizing potential. Either the project is little more than a flashy sideshow, designed to obscure the need for comprehensive political and economic reforms, or it will bring about far-reaching changes that will eventually give rise to a dynamic economy of the twenty-first century. My own research, my experience as an intern at Carnegie Moscow Center, and my interactions with both Russian and American experts allow me to develop a more nuanced analysis than is generally seen in the West. I argue that, while Skolkovo is a positive development, and will no doubt give rise to many tangible benefits for Russia, its impact will remain limited without genuine political and economic reforms.

OUR PARTNERSHIP WITH GENEVA HUMAN RIGHTS COMMISSION:
AN ASSESSMENT OF FAIR HOUSING KNOWLEDGE

Elizabeth Marder, Lukas Petersen, Sam Smukler, Duncan Stafford, Lindsey Thomson

The Department of Housing and Urban Development (HUD) provides federal funds to state and local organizations that provide housing opportunities to those who might not otherwise have access. However, organizations receiving such funds must demonstrate appropriate use by “affirmatively furthering fair housing” (AFFH). In other words, organizations must proactively take steps to ensure that minority groups are protected by existing state and federal anti-discrimination laws and have access to affordable housing.

This project is the result of a partnership with the Geneva Human Rights Commission. Our consulting team will investigate whether or not federally funded housing agencies are appropriately following AFFH guidelines. This is Phase I of the four phases for the Research and Resource Center project and it strives to have a regional impact on the understanding of the importance of compliance to AFFH obligations: we will create a database of agencies and organizations in Wayne, Seneca, Yates, and Ontario counties who receive federal and state funds, and create a survey and distribute it to the list of recipients, to assess their knowledge of fair housing guidelines, in order to compile data about regional agencies’ understanding and knowledge of AFFH.

Our team of consultants hopes that in exploring AFFH awareness, we will have a regional impact and pave the way to educating agencies on fair housing practices. Our goal is to establish an AFFH Resource Center in the city of Geneva.

DANCING THROUGH THE TREES, DANCING THROUGH THE CITIES: MOVEMENT AND ENVIRONMENTAL SUSTAINABILITY

Katherine Marino

I am currently completing a double major in dance and environmental studies, which inspired me to create an independent study investigating how dancers, choreographers, and environmentalists connect movement and dance performance to environmental sustainability. Two major goals of this project are to use my findings to inform my own work as a dancer, choreographer, and environmental advocate, and sharing my findings with others to instigate conversation.

Dance and environmental issues connect in several ways. The most obvious connection is through the performance of formal choreographed works that are based on environmental themes. As opposed to formal choreography presented on a stage, dance and the environment can also be combined through site dances, which can vary depending on the location and movement within the piece. I have interviewed regional choreographers and dance educators whose work has been related to environmental issues and blogged my findings. I also found several educators who claim the somatic experience of moving and dancing can help people understand their own mind/body connection and their relationship to the outside environment.

My exploration of dance and the environment suggests that, regardless of whether a person is watching a performance or experiencing movement in his or her own body, the themes of community, emotional engagement, and increased awareness continue to resurface whenever combining intentional movement with environmental sustainability.

FIND AND FLOURISH:
PLATO'S THEORIES OF EDUCATION AS A POTENTIAL BASIS
FOR REFORMING URBAN EDUCATION

Sarah Marlow

There is, without question, a need for reform in the American education system. A quick survey of test score statistics confirms this and raises a troubling question—why are test scores so important in the first place? The focus on test-based achievement refocuses the purpose of education to the rote memorization of facts and insinuates that education has a concrete purpose: passing grades. This, and other problems in public education, particularly in urban areas, are delineated well in the works of Jonathan Kozol, which will serve as the main source of insights into the state of current education in the work I am undertaking.

This project for Honors in Philosophy focuses on the classic philosophical accounts of education found in Plato's dialogues, and their potential as tools of reform, with particular emphasis on the journey of the escaped prisoner in the "Allegory of the Cave," in Book VII of the *Republic*. Key themes, consistent throughout the Platonic canon, include inherent potential to learn, a differentiation of passion for activities or subjects, engaging students in their own education (and, more importantly, their self-education), and education as a project in progress. Plato lays out a complex system of egalitarian education, which, while progressive in many ways, has serious flaws and would be difficult to implement. The themes noted above, however, can be implemented on a smaller scale by individual teachers in their classrooms within the framework of the current system.

While some may argue that a larger overhaul is in order, it seems that the first steps to greater reform may be a number of simple modifications, such as allowing students the time to pursue their intellectual interests and passions from an early age, which would change the educational environment and empower students to pursue education for its own sake.

PROPRIETARY, HIGH FREQUENCY AND ALGORITHMIC TRADING: PULLING
THE FINANCIAL SYSTEM'S LEVERS AND DECOUPLING THE FINANCIAL
SECTOR FROM THE REAL ECONOMY

Connor Martin

My study focuses on the role of modern market participants in global financial markets, specifically highlighting the changing dynamic of the markets in the 20th and 21st centuries and the rapid rise of computerized trading. We currently live in a world where the bulk of all trading activity is done by computerized trading algorithms—“High Frequency Trading”—which seek to monetize market inefficiencies by using ultra high-speed execution algorithms that enter and cancel thousands of orders every second. Likely, the abundance of these algorithms interacting with each other causes market inefficiencies and it is the precise goal of this study to determine how, and to prove that, this occurs.

The argument for High Frequency Trading is that these high-speed hedging programs provide vital market liquidity. My assertion is that this liquidity is not genuine because it does not—as manual trading does—have any risk associated with the transaction.

MAN UP?: ADDRESSING THE CONSTRUCTION OF THE MASCULINE IDENTITY THROUGH ATHLETICS

Kevin Matteson

One of the most influential coaches in America, Joe Ehrmann, has stated that contemporary sports are America's "secular religion". For something as powerfully popular, an honest and thoughtful critique of the youth sport scene, particularly at the high school level, is necessary to ensure that we are creating young people ready to lead in a diverse and ever-changing world.

While it can often be heard that "sports build character," this phrase is ambiguous and open to interpretation. What kind of character is being built? This project serves to explicitly address how sports can, and should, build character for all of those involved. Informed by research done of scholarly literature in the field of masculinity and sport and my own personal experience as a high school football coach, a series of mini-lesson plans have been created that will serve to address the most salient issues in the world of high school athletics. Some of the issues that these plans will address are homophobia, bullying, navigating the cyber world safely, relationships and violence.

Ehrmann, Joe, Ehrmann, Paula, and Jordan, Gregory. InSideOut Coaching: How Sports Can Transform Lives. New York, NY: Simon & Schuster, 20-11. Print

AN INTERVENTION-BASED APPROACH TO ASSISTIVE TECHNOLOGY AND INCLUSION IN EDUCATION

Kathryn McCarthy

For my project, I address the notions of inclusion and universal design for children with disabilities in school by creating an interactive cookbook useful for all children.

My interest in this project was driven by an assistive technology course that I am taking with Professor Mary Kelly this semester. Throughout the semester, our class has explored a full spectrum of assistive technology in relevance to how it promotes inclusion for children with disabilities in the classroom, in the community, and in the home environment.

My project consisted of inventing a low-tech assistive technology device that caters to children with disabilities; I created an inclusive and interactive cookbook. The cookbook is a compilation of several recipes that are presented in both visual and written format to provide the “multiple means of representation”, an essential component of universal design for learning. Another unique feature of the cookbook is that Velcro is attached to the back of each illustration so that tactile learners can grasp and gain understanding about the associated material or object.

This innovative cookbook provides children with a straightforward approach to following a recipe. More specifically, it demonstrates how assistive technology can promote inclusion across many environments, and how small alterations to mechanisms can generate opportunities for all children to participate and succeed.

THE SOCIOLOGICAL STUDY OF SUICIDE: EXPLORING THE NETWORK APPROACH

William R. McConnell

Since the seminal work of Emile Durkheim (1897), there have been few major strides towards a more comprehensive understanding of suicide. As suicide continues to rank as a leading cause of death in the United States, often double the homicide rate, there is a strong incentive to improve study of its causes. The application of Network Theory to suicide is one of the most promising developments in recent decades. Network Theory reconceptualizes Durkheim's major concepts, social integration and social regulation, as two functions served by social networks. Under this view, the social ties that surround an individual have a determinant effect on their well-being.

For my Honors project in Sociology, I applied Network Theory to suicide rates by marital status. I used several publically available datasets to differentiate marital status on the basis of social networks. These typical networks were then compared to a sample of suicides obtained from the National Health Interview Survey Linked Mortality File, 1990-2004 ($N=917,661$).

Results indicate that there is a strong protective effect against suicide enjoyed by the married, and that the most important characteristics of networks were their frequency of interactions, positive social content, and presence of support.

A STEAM ENGINE OF CHANGE

Jess McCue

My project explores the influence of the railroads in shaping Geneva, both in the past and present. I seek to examine not only the influences that the railroads had on the geography of the city, but also their contributions to the social makeup of the community.

The project stems from previous interest in the social and geographical changes that have occurred in Geneva throughout its history. I spent many hours listening to interviews and reading stories about Geneva's citizens; their histories led me to further pursue my research on what brought about massive changes in Geneva, which led to investigating the Lehigh Valley Railroad and the NY Central.

In the creation portion of my project, I sought to display history in a modern form that would reach new audiences. Working closely with John Marks, the curator of the Geneva Historical Society, I created a series of short videos covering different historical sites and events in Geneva. They included clips that were shot on site alongside historical photos and maps so that the viewer can fully imagine the transformation of the land and social atmosphere. The videos are connected to the Historical Society's website and an animated tour of local history.

FINANCIAL INSTABILITY:
THE EFFECTS OF ECONOMIC TRENDS ON FINANCIAL DEREGULATION

Mark C. McInerney

This project for Honors in Economics builds on the framework of Minsky, Keynes and others regarding the inherent instability of financial markets. Minsky, and those who follow in the tradition of Minsky, observed how stability creates instability as economic actors underprice risk when they discount the possibility of a future crisis. Similar developments can be observed with regards to the regulatory framework that faces the financial sector. The need to understand financial instability and financial regulatory frameworks is highlighted by the devastating effects of the 2007-2008 financial crisis.

The unique contribution of this paper will be a specific focus on how financial regulations change based on changes in social circumstances and economic theory. Through an examination neoclassical economic theory, I will look at the models and policy proposals that have been created using neoclassical economic frameworks, and use the financial crisis of 2007-2008 to show the implications of the changes in economic theory. Econometric analysis supplement the theoretical work.

My analysis suggests that economics is a reflection of social conditions: periods of sustained economic growth lead to the perception that economics has overcome capitalistic instability which leads to the removal of financial regulations and creates an environment conducive to fraud and systemic crisis.

ELARA: ENVIRONMENTAL LIAISON AND AUTOMATED RECYCLING ASSISTANT

Marcela S. Melara

Because unclear, variable waste-management policies across municipalities discourage many people from recycling and sorting their waste properly, we often do a poor job of distinguishing recyclable versus not recyclable materials. Enter ELARA.

ELARA is a computerized system I designed as part of my Honors project that facilitates recycling and waste sorting by helping people identify items which are recyclable. The ELARA system is comprised of four major elements, which I developed concurrently:

- A user-friendly, interactive kiosk including a touch panel computer, barcode scanner, card swipe, various sensors, and recycling bins,
- The open-source kiosk software,
- A database containing all the information about waste items, users, kiosks and,
- A project website which coordinates the entire system.

The ELARA is designed to be placed in a public area as a waste station; users can visit the ELARA website to view their recycling history, credits, and connect with other users. I am releasing my project to the HWS community, where efforts are already being made to improve recycling rates on campus and to educate students and staff about proper waste sorting, in hope that ELARA will be a positive contribution to our efforts, and will encourage more students and staff to help the environment.

For the next stage of my project, I plan to begin working on an ELARA smartphone app over the summer.

PATRIARCHY AND WOMANHOOD IN 18TH CENTURY FRENCH LITERATURE

Marcela S. Melara

My project examines the role of the father and this role's effects on women in 18th century France through select literature and theater. In particular, I deconstruct the way the patriarchal system of the era is expressed through texts to study how women's romantic relationships are affected by this system.

I first became interested in the connection between womanhood and romantic relationships in French literature while taking a French literature course called "Mystics, Lovers, and Friends." In my current 18th century French Literature course, we examine gender, race and class issues through various texts, primarily love stories. I have focused on the different kinds of male-female dynamics, particularly father-daughter, to show how these all play a role in how the romantic relationships of the main female characters develop.

In the context of the pre-French Revolution period, authors used often exaggerated father figures to bring attention to social issues. Nevertheless, some texts do present more benevolent father figures and main characters; these are primarily used to demonstrate a better model for the social condition of women of that time.

My project sheds light on the fact that gender inequalities were also a major factor that led to the French Revolution at the end of the 18th century.

A MULTI-SENSORY, CONTENT-BASED APPROACH TO TEACHING FOREIGN LANGUAGES IN THE PUBLIC ELEMENTARY SCHOOL

Laura Moeller

My MAT thesis project reflects my advocacy for the teaching of foreign languages in elementary school. Unfortunately, because of standard-based curricula, meaningful pedagogy is not common in the mere fifteen percent of public schools in the United States that offer elementary foreign language programs; little room is left for early foreign language programs to exist, let alone programs that utilize effective teaching strategies.

I developed a multi-sensory, content-based approach to teaching elementary foreign languages. Along with engaging all types of learners through differentiated instruction, my method has the added benefit of being aligned with the existing elementary curriculum. As a model for this approach, I created a Kindergarten Spanish curriculum that could easily be implemented in the public elementary school classroom. Each immersion lesson is twenty-five minutes long and reinforces the academic content Kindergarten students are already responsible for learning. Since the target language is the vehicle for content instruction, my method addresses the general concern that there is not enough time in the school day to dedicate to subjects not included on standardized tests.

It is my hope that my instructional approach and curriculum will provide teachers with a comprehensible guideline for improving the ways in which foreign languages are taught in public elementary schools.

18th CENTURY FRANCE: A PORTRAIT OF SOCIAL CONSTRAINTS

Hannah Nickerson

In the senior seminar (Topics in the 18th Century: Class, Gender, and Race) we have studied several texts that have jointly revealed a recurring theme from a tumultuous period, the French Regence to the French Revolution: the burden of social limitations in daily life.

This paper uses a two-pronged analysis. On the one hand, it remains firmly rooted in the realm of fiction and stage. From novel to novel and from play to play, 18th century characters are constantly grappling with their literal and figurative social prisons as they struggle to gain some autonomy over their individual destinies. On the other hand, it ventures into a more theoretical examination of the authors' subtle and not so subtle commentaries on the era's conventions, that have effectively woven a thread of conversation between diverse texts and which collectively serve to question the French social order of the time.

My paper will rely mostly on three fictional narratives, *Manon Lescaut*,⁷ *La Religieuse*,⁸ and *Caliste*,⁹ and two plays, *Le Jeu de l'Amour et du Hazard*¹⁰ and *Le Mariage de Figaro*.¹¹

⁷ Prévost, *Manon Lescaut*, éd. Jean Sgard, Editions Flammarion GF, Paris, 2006. Print.

⁸ Diderot, Denis. *La Religieuse*. Paris: Éditions Flammarion, 2009. Print.

⁹ de Charrière, Isabelle. *Caliste. Ernestine, Caliste, Ourika*. Paris: Imprimerie de Ch. Lahure, 1853. 85-188. Print.

¹⁰ *Le Jeu de l'amour et du hasard*, éd. Catherine Naugrette-Christophe, Gallimard Folio, Paris, 1994. Print.

¹¹ Beaumarchais, Pierre. *Le Mariage De Figaro*. Paris: Éditions Flammarion, 1999. Print.

MINDFULNESS AND ALCOHOL PROBLEMS AMONG HWS STUDENTS

Marleah Debra Noonan

Excessive alcohol use is a widespread problem on American college campuses. Understanding the factors associated with problematic drinking patterns is crucial to the development of efficacious interventions. Given that mindfulness encourages presence in the moment and full awareness it is likely that problem drinking is associated with less overall mindfulness. The aim of my research project was to examine the relationships among facets of mindfulness and alcohol problems in a college sample.

In this two-year cross-sectional study, participants (N=221) were recruited using class announcements and campus flyers. Participants (168 females, 53 males) were between the ages of 18-24 (M= 19.8, SD=1.2) and the ethnic composition was 85% Caucasian, 5% Asian, 3% African American, 5% Hispanic and 2% other. Students completed a demographic form as well as the Perceived Stress Scale (PSS-14), Five Facet Mindfulness Questionnaire (FFMQ) and Rutgers Alcohol Problems Index (RAPI). The five facets of mindfulness were examined to see which factor(s) contributed most to alcohol problems in this sample. Hierarchical multiple regression analyses controlling for age and stress, demonstrated a significant effect of the facet of mindfulness, acting-with-awareness, on alcohol problems. Most generally, higher scores on the mindfulness factor of acting-with-awareness was associated with lower scores on the RAPI ($p=0.00$).

Results of this study suggest that mindfulness interventions aimed at increasing purposeful awareness may be an effective way to decrease alcohol problems on college campuses.

This project was completed in collaboration with Jamie S. Bodenlos, PhD and Stephanie Y. Wells, (WS '10)

MOVEMENT IN 18TH CENTURY FRENCH LITERATURE

Mirel Oese-Siegel

The concept of movement- physically fleeing from a place or from a person, volatile emotional shifts, gestures of avoidance or escape- has allowed me to analyze social issues of gender and class in eighteenth century French literature. Focusing on this idea of movement reveals hidden social behaviors and social issues; it often exposes an inability of characters to deal with or alter their social realities, frequently ones arising from conventions and norms

This paper for my Senior Seminar, Topics in 18th Century: Class, Gender, and Race, focuses on the social constraints imposed by and on both gender and class, and revealed in the literature of this period. The notion of movement presents an ideal lens for examining this period of upheaval and change in French history.

DECISIVE CHOICES:
UNDERSTANDING COMPOSITION THROUGH THE PRACTICE OF PAINTING

Elizabeth Perry

This project for Honors in Studio Art is about the discovery and exploration of painting as a way to create order in an otherwise chaotic world; it is the arrangement of colors, textures, and shapes using acrylic paints on Masonite.

Originally, I sought to explore text in painting as a compositional tool. Quickly, this preoccupation fell away and I focused solely on the improvement of my ability to look at and actually see the organization of visual forces in a painting. Thus, my paintings lost hidden meanings or intentions, and were seen solely as a field on which to make decisive compositional choices to create a series of visual relationships.

I engage every inch of the composition with full attentiveness. My arrangements are insistently strange. The paintings, while bizarre, stem from a mixture of thoughtful intentions and spontaneous inventions. The oddness creates a deep unease for the viewer as the images are undeniably mysterious. My process of painting is intuitive, but I make choices in a manner that is at once both formal and emotional.

Compositional resolution, I have come to understand, may not be the only important thing in my paintings. These paintings are generated from within and exhibit my voice as a growing painter and therefore must also reflect my emotional self. I hope, with these paintings, that I can come closer to understanding a certain approach to painting and create a small amount of tension in the viewer. This venture is ongoing.

INCLUSIVE PRACTICES IN THE SECONDARY ENGLISH LANGUAGE ARTS CLASSROOM: A RESOURCE GUIDE

Alaria Pizzo

Research suggests that teachers' negative attitudes towards inclusion can be changed when teachers are provided with the appropriate education and supports concerning inclusive education best practices. The results of my personal research and interview process for my Master's Thesis in Teaching parallel the findings delineated by popular scholars in this field of study. Several common themes emerged concerning pre-service teachers and their attitudes toward, and experience with, students with disabilities in an inclusive secondary setting. Participants' opinions towards inclusion were influenced by several factors: the individuals' perception of their knowledge in the area of disability, their confidence teaching students with disabilities, and their undergraduate coursework on the subject of special education. The participants' confidence teaching students with disabilities revealed a direct correlation with their willingness and confidence teaching in an inclusive setting.

My project also includes a resource manual for secondary English Language Arts teachers looking to cultivate a more inclusive learning environment for their students. The resource manual addresses commonly taught genres of literature and uses example texts to present possible lesson plans to be implemented in secondary classrooms. I hope to provide secondary English Language Arts teachers with accessible supports that can easily be woven in to their current content curriculum, and which can ultimately be molded to fit their own goals and objectives in their classroom.

HWS IN PRISON

Gideon Porter

I have been a student leader in the HWS Educational Second Chances Program, which is based on the Cornell Prison Program and Bard Prison Initiative. Beginning in the fall of 2012, HWS professors will teach at Five Points Prison. HWS students will serve as teaching assistants and will administer the program, which we hope will be self-sustaining for many years to come.

I have been interested in issues in inequality throughout my life and for many years I have been very familiar with the Bard Prison Initiative and its positive impact. This interest in prison reform and issues in inequality can be seen in my Honors Thesis, which explores why the U.S. does not do as much to combat poverty as other advanced industrialized democracies do. As a student at HWS, I believed a similar prison education program would be an excellent match with the Colleges' long-standing commitment to service.

All involved in the program hope that it will become a significant part in the Colleges' commitment to service and giving back to others. It is also my hope that undergraduates involved in this program will not only gain vital knowledge in issues of inequality, but also become lifelong leaders in social justice reform.

“WHY ROCHESTER?” A CRITICAL EXAMINATION
OF THE EXPERIENCES OF JEWISH REFUGEES IN THE WWII ERA

Mary Posman

“Why Rochester, NY?” Upon Hitler’s rise to power in 1933, this city of Rochester was able to facilitate the arrival of hundreds of Jewish families seeking to escape Nazi persecution in Europe. This project for Honors in History seeks to understand how Rochester became a city of safety and opportunity by analyzing the economic and social dynamics of Rochester before and during the refugee crisis.

The use of oral histories, archival documents, and collective histories suggests a strong and vibrant Jewish community in Rochester, but also one that was diverse and often fraught with tension. This diversity within the Jewish community played an important role in shaping the activities of its members and influenced the effectiveness of their efforts on behalf of European Jews fleeing Nazi persecution.

I seek to gain a better understanding of the experiences of Jewish refugees in Rochester, their transition to life in the community, interactions with the settled Jewish community, the non-Jewish community, and American culture more broadly.

SEEKING THE SELF: REFLECTING AND RECONSTRUCTING FEMALE IDENTITY

Imani Schectman

My Honors project in Studio Art explores both female identity and the ways women absorb projected images of perfected beauty, specifically the social norms of body image.

My project makes use of photography, video, sculpture, and mixed media to explore and understand issues of female identity both globally and individually. As a studio art project, however, the project goes beyond exploration—I take the familiar and re-create it using both familiar and unfamiliar materials to encourage the viewer to look further into the meanings of female identity, and also to encourage the viewer to be more conscious of the manipulation of identity.

I am really interested in beauty and how much it influences the ways that we as women understand ourselves. My art explores the pressures for women to achieve these perfected images of beauty, but it also should be received as both the outcome of intellectual research and of a creative process that personifies objects to challenge our notions of meaning and identity.

EXPERIENCES WITH PROGRESSIVE DESIGN AND HOW IT CAN SERVE HUMANITY

Lauren Schwarzenberg

From both my exposure to the design process in the Architectural Studies program, and from my experience of seeing poverty in rich cities abroad, I became interested in the field of humanitarian design, which is focused on serving and empowering people. I chose to pursue an Honors project that would focus on designing a product in this spirit.

To begin, I explored products, tools, and theories with a humanitarian focus and found that industrial design, the area of products, services, and systems, has the potential to serve most effectively. Based on the theories and critiques of humanitarian design that I found in my exploration, I saw how designing for education is the most respectful and practical ways to serve people different from myself through design.

Later, when I was given a summer opportunity to serve with AmeriCorps at a local Boys and Girls Club and at a local elementary school, I also was able to explore progressive design further by being awarded the Eric Cohler Travel Award and Internship Stipend; I was able to meet with designers and explore design in Stockholm, Copenhagen, and Rotterdam. These experiences led me to develop an idea for an interactive educational game that could be used to teach literacy to school children.

This chain of experiences has guided my career aspirations towards designing for education as an industrial designer. To better understand my clients and the struggles that come with learning, I will be spending next year with City Year, tutoring children in schools with high dropout rates in Philadelphia. Immediately following, I will attend graduate school to pursue a Master's degree in Industrial Design.

A CENTURY OF SOCIAL UPHEAVAL IN FRANCE:
HOW CLASS PERVADES 18TH CENTURY FRENCH LITERATURE

Daniel Scibilia-Carver

The 18th century was a time of increasing tensions between different social classes in French society. After the death of Louis XIV, the Sun King, in 1715, writers began challenging the distribution of power in their literary works in the period that led to the French Revolution in 1789. My project examines the similarities between different authors' treatment of class in 18th century French literature.

Looking at both literary and theatrical works, my project follows the unrest and dissatisfaction with the nobility. Although the manner in which each writer addresses the theme of class is distinct, each author remains intent on challenging the legitimacy of the nobility in 18th century France.

My project testifies to the widespread discontent felt towards the nobility in the pre-revolution period. The signs of disillusionment are prevalent in the literature, yet the nobility did nothing to stop its own demise. Were they blind to the indications of social unrest, or did they ignore the warnings?

LINDEN STREET RENEWAL: FINDING THE HEART OF GENEVA

Maggie Smith

Combining sociology, architecture, history, urban studies, and city planning, my work focuses on improving downtown Geneva through the pedestrianization of Linden Street, something discussed for the past 30 years. Proponents hope that converting the street known as the heart of Geneva into a walkway would allow the area to become more approachable and accessible, attract a greater crowd to the downtown area, and bring more revenue to downtown Geneva. The project also would provide the community with a great central location to congregate and enjoy their town.

My framework for the project comes from the theories of Alain de Botton, Christopher Alexander, Jane Jacobs, and Thomas Wolfe, all useful for understanding the intersection of architected cityscapes and the way people live in and through them. In addition, proven examples such as the Ithaca Commons, Pearl Street in Boulder, Colorado, and the Church Street Marketplace in Burlington, Vermont illustrate the different design patterns that contribute to space and place. Interviewing community members and conducting research on land use on Linden Street provides an understanding of local issues that impact urban planning and decision making.

My concept will result in a renewed, revitalized, and revived Linden Street. I hope to provide the City of Geneva with a legitimate and plausible plan that can create positive, effective change.

THE BUFFALO OF DU: A GENDERED ANALYSIS

Christine Staulters

My project focuses on three different versions of the Buffalo Woman episode of the Sunjata epic and the role of gender in each version. Sunjata is an example of an African oral epic that conveys the history and culture of the Mande people of West Africa. Because Sunjata is an oral tradition, story tellers often add and subtract details depending on their audience.

The basic plotline of the Buffalo woman episode is as follows: the Buffalo of Du was a woman who was denied her family's inheritance. In response, she turns herself into a buffalo and ravages the community, killing many people. The king sends many hunters to kill the Buffalo Woman and all die except for two who succeed in killing her. As a reward, the hunters were given the choice of a woman to take as their wife. They chose Sugulun, who was prophesized to give birth to Sunjata, the next ruler of the kingdom.

I examined the ways in which the Buffalo woman character is at odds with traditional gender roles in Mande culture. The Buffalo of Du transgresses the role of women in Mande society in order to express herself. Many of her actions are against the expectations held by society about the way that a woman should act. Because this portion of the episode is unique in its portrayal of women and the actions they must take in order to achieve their wishes in society, it is a disruptive point in the Sunjata narrative because it does not fit with the typical patriarchal beliefs and actions throughout the rest of the Sunjata epic.

THE GENETICS OF FRUIT FLY EYE DEVELOPMENT:
IDENTIFYING THE CRITICAL AMINO ACIDS OF SOBP THAT MEDIATE
INTERACTION WITH TRANSCRIPTIONAL REGULATOR SINE OCULIS

Josephine Stout

The study of eye development in *Drosophila melanogaster* has wide ranging applications in understanding developmental biology. Sine oculis (SO) is a transcription factor protein that works with other factors to control gene expression in the developing fly eye. SO does not work alone; it complexes with several different cofactors in order to regulate gene expression at multiple stages of eye development¹².

Sine oculis binding partner (SOBP) is a novel protein that has been shown to interact with Sine oculis both *in vivo* and *in vitro*. While the exact function of SOBP remains unknown, both SO and SOBP are co-expressed in embryonic cells undergoing differentiation into the final cell fates of the fly eye.¹³ Taken together, these data suggest that the interaction between the two proteins may have functional consequences for the development of the fly visual system. The determination of the SOBP binding domain will shed light on the function of SOBP and its interaction with Sine oculis.

This research and my Honors project focus on the hypothesis that two zinc finger domains, located toward the N-terminal end of SOBP, facilitate the SO/SOBP interaction. Zinc fingers are unique protein structures commonly found in both DNA and protein binding domains.¹⁴ In order to test this hypothesis, I isolated small segments of the SOBP protein and tested their ability to interact with SO in a yeast two-hybrid assay. Preliminary results have not supported my hypothesis but instead have implicated a 55 amino acid sequence just to the C-terminal side of the zinc fingers. Further testing needs to be done in order to confirm this interaction and characterize the mechanism by which these amino acids facilitate the SO/SOBP interaction. These results will provide new avenues for studying SOBP function *in vivo*.

¹² Kenyon, K. L., Yang-Zhou, D., Qi Cai, C., Tran, S., Clouser, C., Decene, G., et al. (2005a). Partner specificity is essential for proper function of the SIX-type homeodomain proteins Sine oculis and Optix during fly eye development. *Dev. Bio.* , 286, 158-168.

¹³ Kenyon, K. L., Jun Li, D., Clouser, C., Tran, S., & Pignoni, F. (2005b). Fly SIX-Type Homeodomain Proteins Sine Oculis and Optix Partner With Different Cofactors During Eye Development. *Dev. Dynamics* , 234, 497-504.

¹⁴ Brayer, K. J., & Segal, D. J. (2008). Keep Your Fingers Off My DNA: Protein-Protein Interactions Mediated by C2H2 Zinc Finger Domains. *Cell Biochem Biophys* , 50, 111-131.

BEWARE OF THE DRAGON: VIETNAM'S FOREIGN POLICY TOWARD CHINA

Tra To

During their three thousand years of history together, Vietnam's relationship with China has been a long roller coaster ride, swinging from hostility to intimate brotherhood. This roller coaster ride still remains to the present day, with many unsettling issues persisting between the two countries, the most serious being the long standing conflict of sovereignty over the South China Sea (or Vietnam's East Sea).

This analysis for my Honors project in Sociology moves through the chronology of the Sino-Vietnamese relationship starting from the 3rd Century BC and is divided into three parts: ancient, modern and contemporary (the main focus of the research). In this way, the fluctuation of the Sino-Vietnamese relationship can be seen in the historical context so as to best examine current situation. This historic relationship can be characterized as one of relentless Chinese supremacy and Vietnam's resistance against that domination.

With China rapidly rising in both economic and military power, its ambition for expansion is threatening to its smaller neighbors like Vietnam. I investigate what strategies Vietnam is using in negotiating its relation with China, especially in resolving issues concerning the territory and natural resources, and how Vietnam is reaching out to the other regional actors, including the United States, in order to reduce the power gap between the two countries.

SIN CITY: THE REAL LIFE STORY OF VIOLENCE AND CORRUPTION IN CIUDAD JUAREZ

Jade Vasquez

Ciudad Juarez, Mexico, the former poster child of free trade, has now become the city with the highest murder rate in the entire world. Since the signing of NAFTA in 1993, Juarez has become the transit route for shipment of illegal drugs to the United States, contributing to the success of a powerful drug cartel and a corrupt government. Despite the optimism the free trade agreement brought to the city, Juarez has become a failing state and economy, where killing is not considered deviance, but a normalized cultural practice.

In this study, I will demonstrate how Juarez, a migrant society, has developed into a city known for its violent identity and nothing else, despite its goal of industrialization. Violent crimes are not only gender-based, despite what many of the literature and media have portrayed, but a crisis that has ultimately defined the city.

By understanding the history of Mexico and how Juarez came to be, I hope to explain the root causes of the crisis and the reasons war, drugs, and murder have become a cycle of life in Juarez. Most importantly, I intend on demonstrating how Mexico's culture of violence and Juarez's closeness to the border have affected Juarez's perpetual liminal state.

TRANSLATING TATYANA TOLSTAYA

Melissa Warner

After studying translation theory and the history of Russian to English literary translation, I applied my Honors thesis research to a translation project: I have translated "Date with a Bird" by Tatyana Tolstaya into English.

The story is about a little boy named Petya, who lives with his mother, brother, sick grandfather, and Uncle Borya (whom Petya despises). The story centers on Petya's friendship with his mysterious, magical neighbor, Tamila. Tamila claims that she once lived on a blue glass mountain but was kidnapped by a dragon that flew with her all around the world before dropping her off in the village where Petya lives. Petya's interactions with Tamila and other events in the story result in his eventual loss of innocence and transition towards adulthood.

In undertaking this project, I sought to develop an understanding of the challenges presented by Russian to English literary translation. As a defining element of Russian character, literature has long held a sacred place in the hearts of the Russian people. From a young age, Russians memorize and are able to recite passages of prose and poetry. Their love for their great authors, from Pushkin ("*nashe vsyo*—our everything") to Tolstoy, creates pressure on translators of these works to capture their essence. To this end, I strove to create a translation that would fully portray both Tatyana Tolstaya's style and the intricate plot details of "Date with a Bird".

SNAKE/SKIN: A STUDY OF THE TRANSFORMATION OF WOMEN INTO REPTILES IN JAPANESE NARRATIVE ART

Mary Morgan Williamson

My thesis for Honors in Art History examines two Japanese hand scrolls, *Gisho III* from the Kamakura period and *Dōjōji Engi Emaki* from the Muramachi period in Japan. In *Gisho III*, a woman falls in love with a Korean monk. After confessing her feelings and being rejected, she vows to use her energies to protect him instead of lusting after him. When he leaves, she throws herself into the ocean, where she transforms into a Dragon and protects him on his journey home. In *Dōjōji Engi Emaki*, a woman falls in love with a monk, who leaves to run away from her lustful advances. She becomes enraged and chases after him, transforming into a fire-breathing serpent that eventually kills both herself and the monk with her fiery body.

My analysis discusses similarities and differences between the narratives and the art works, as well as the social and religious theories and concepts about Japanese women's actions in the medieval periods of Japan. I will focus on the transformation of the female protagonists into reptilian beasts.

While some argue that these women were controlled by their lust for men and thus controlled by the men themselves, I argue that the women's transformations show they in fact have control over their bodies. Through both the seemingly positive and negative portrayals of the female protagonists and their lust for their male counterparts, they are given power over their own bodies, not just to transform into mystical creatures but also to obtain Buddhist salvation.

BEAUTIFUL FAILURES

Jenny Wu

My Honors project is a series of oil landscape paintings of Geneva, NY, many near Odell's pond and Houghton House.

I am a perceptual painter, a sensitive person, and I paint the landscape based on observation. I consider my landscape paintings as unfinished investigations of the changes in motif and the ongoing exploration of the wonders in nature. Nature is so unpredictable and attractive because the color and the light are constantly changing; changes keep things interesting and enlivened to me. To me, the process of painting is a balance between the eye, mind and body. I am constantly searching for the abstraction inside representation, discovering the organic moments in detailed places and maintaining a bold idea of composition. I try to unfold the spirituality of art, and present a poetic feeling. Being outside, breathing in the nature, painting the motif I observe— it is my soul's desire to escape the daily entrapments of the mind's concerns. I paint the landscape, but not merely the scenery. I seek to create a visual equivalence of nature and hope to take the viewers' soul there too.

Every painting is an adventure, and as a painter, I am wandering into an unknown zone to make discoveries that are meaningfully original. However, in this presentation, I am going to discuss the not so romantic side of being an artist: failures. I will present the beautiful failures during my art making process, and the importance of “learn to fail, or fail to learn.”

ACADEMIC ACHIEVEMENT, GENDER DISCRIMINATION AND SELF-PERCEPTION

Ashley M. Yang

In this study, which took place at a rural Western New York high school, I investigated the role of high school students' perceptions of gender discrimination on several aspects of their academic experience, including involvement in extracurricular activities, perceived teacher favoritism, and confidence in a given subject area. I also looked at what personality traits the participants defined as masculine and feminine, and how students who acted outside the prescribed gender norm were treated by peers and teachers.

The measure used to perform this study was a survey consisting of multiple choice, Likert scale, and free response items. Results indicated that males have a more traditional/stereotypical code of gender norms for both themselves and for females than females do. However, both female and male participants indicated that they enforce the gender norm more strictly among their own gender than among the opposite one.

The study has implications for how classroom teachers might seek to alter and/or address mainstream gender discourses in their classrooms to create a less stereotyped learning environment that benefits all students equally.