

Tuesday, April 27, 2010
Williams Center
12:00 p.m. to 7:00 p.m.

All exhibits will be available for viewing throughout the day – students are scheduled to be present to answer questions at the indicated times.

POSTER AND OTHER PRESENTATIONS
Multi-purpose Room

12:00 p.m. to 12:30 p.m.

Analysis of RNA-Protein Interactions in Living Cells
Dane Buenten, Chemistry

Is This a Date or Not? Lesbian Expectations of Dating Relationships
Rachel Foltz, Psychology

Forgiveness as a Function of Mood and Transgression
Leanna Greenberg, Rachel McMahon, Psychology

Cues of Fighting Ability in the Aggressive Songs of House Crickets
Kristina Halliman, Biology

A Retrospective Analysis of The Rochester Rhinos
Chris Huber, Psychology

Festivities around the Christmas Season
Shannon Jantzi, Modern Languages

Race, Religion, and the Atlantic
Brittany Jimerson, History

A Retrospective Analysis of Sigma Gamma Phi Sorority
Laura MacLeod, Psychology

Androgyny and the Self Portrait
Christopher McCleary, Visual Arts and New Media

Social and Environmental Justice Issues Surrounding Mountain Top Removal Coal Mining
Joseph McGrath, Rachel Radicello, Katie Tyczynski, Jaclyn Hoffman, Lauren Piche, Amy Salisbury, Brian Bishop, Jeannette Chun, Andrew Craigie, Aimee Lindner, Adam Malchoff, Renee Solly, Alex Stauch, English and American Studies

British Cities; A Comparative Look
Alexander Rogers, History

A Retrospective Analysis of John G. Ryan Distributing
Mark Tarkett, Psychology

The Independence of Exchange: Trade Relations between Philadelphia and Havana
Samantha Vaughn, History

Sex trade in port cities
Courtney Ward, History

12:30 p.m. to 1:00 p.m.

A Retrospective Analysis of Sullivan's Charbroil
Elizabeth Bauza, Psychology

A Retrospective Analysis of Olympia Sports
Chip Francoforte, Psychology

Forgiveness as a Function of Mood and Transgression
Leanna Greenberg, Psychology

Youth Filmmaking in Turkey
Jesse Kerns, Megan Erbacher, Allyssa Kline, Kimberly Krenzer, Kristen McDonald, Anna Robbins, Jon Simmons, Communication

Chautauqua County Home: Finding Links Between Sociology and Public Health
Shannon LaPoint, Sociology

Puerto Rican Military History
Jacob Michaels, Spanish

*Are Male Little Brown Bats, *Myotis lucifugus*, Biased When Choosing Females for Mating Based on Scent?*
Katelyn Miller, Biology

Cultural Interactions in Puerto Rico
Allison Nachman, Foreign Languages

Android Game Application
David Rizzo, Computer and Information Sciences

History 495
Matthew Sanbury, History

Problem Based Learning
Christopher Scott, Psychology

The Synthesis and Analysis of PCDEs
Scott Simpson, Chemistry

Synthesis of Combretastatin
Lindsey Wittmeyer, Chemistry

Model European Union
Kevin Wysocki, Brian Bishop, Edward Campbell, Andrea Dankert, Daniel Figliole, Richard Rogers, Chloe Tsernovitch, Political Science

1:00 p.m. to 1:30 p.m.

A Retrospective Analysis of the Aeropostale
Corrine Aviles, Psychology

Design in Washington DC Poster
Daniel Dayton, Megan Price, Derek Piccola, Katie Latson, David Hunt, Kim Steinhilber, Aaron Bueg, Rachael Walden, Tom Storm, Jackie Bowser, Graphic Design

Three Dimensional Structure of a Tri-Thymine DNA Hairpin Loop, [s(GCGCTTTGCGC)]

Daniel Dykstra, Chemistry

Preschoolers Categorize Animate Objects Better in the Presence of a Dog

Jared Gould, Psychology

A Retrospective Analysis of Basil's Restaurant

Doug Keller, Psychology

The Kinship Factor

Carolyn Klotzbach, History

Beowulf

Brendon LePage, Visual Arts and New media

TTTT DNA hairpin loop bound to lanthanides

Michael Malinowski, Chemistry

A Retrospective Analysis of Wegman's

Peter Martinez, Psychology

A Retrospective Analysis of The Fredonia Men's Basketball Team

Kyle Mitchell, Psychology

Game Development And College-Level Curriculum with Direct X 10

Samuel Raghunath, Computer and Information Sciences

A Retrospective Analysis of The Family Foundation School

Christopher Scott, Psychology

El Yunque Rain Forest

Maria Siderakis, Spanish

A Retrospective Analysis of Fredonia State Women's Lacrosse

Amy Simon, Psychology

Molecular Structure of Oestrogen Receptor Protein

Lindsey Wittmeyer, Chemistry

1:30 p.m. to 2:00 p.m.

Public Health Job Shadowing Mind Map

Claire Boyles, Public Health

USITT

Jennifer Carlson, Theatre and Dance

Analysis of several 2S1/2 Rydberg Systems using the longe range model

Cody Chambers, Physics

Gatorade vs. Propel

Gwendolyn Curtis, Exercise Science

NFL Fan Attribution Patterns

Jared Gould, Daniel Schantz, Psychology

Innuendo and Denial effect on Implicit and Explicit Attitudes
Kathleen Larkin, Psychology

A Retrospective Analysis of Brooks Memorial Hospital Admissions Department
Chelsey Merrill, Psychology

Chautauqua County Home
Haley Roe, Public Health

2:00 p.m. to 2:30 p.m.

A Retrospective Analysis of Wegman's
Anne Barone, Psychology

Teachers' responses to stereotypes in the classroom
Angela Barney, Psychology

Whose Orgasm is it?: Faux Orgasms and Women's Sexual Subjectivity
Claire Boyles, Psychology

Flow and Motivation During Leisure and Work Activities
Amanda Caldwell, Psychology

Mental Health Stereotypes about Gay Men
Michael DeJesus, Psychology

Redefining polygons of the High Peaks region of New York
Katherine Dvorak, Geosciences

Effect of therapy dog on memory task performance
Jennifer Grabski, Psychology

Required Parenting Education in Secondary Schools: An Investigation of Current National Statistics and Reasons to Mandate It
Brian Hall, Psychology

The African American Experience in Chautauqua County: An Underground Experience
Amine Hechelhouche, Krissie Herman, Zakary Woodruff, History

Geoconservation on the Erie Lake Plain
Megan LaBarron, Geosciences

A Retrospective Analysis of Ellicottville Brewing Company
Erin Mansfield, Psychology



Reed Library, First Floor
2:00 p.m.

2:30 p.m. to 3:00 p.m.

Primarily for the Sake of Absurdity: The Evolution of Flashmobs

Lisa Bove, Amanda Kiesel, Zach Murray, Abbott Nixon, Rachel Minstretta, Amber Pasiak, Visual Arts and New Media

Using H1N1 Vaccination Data to better prepare for emergency situations

Valerie Cutt, Criminal Justice

Public Health and Infection Control

Elaine Dillon, Public Health

Council for Exceptional Children National Conference

Daniel Figliole, Education

Factors Predicting Second Grade Children's Decoding Skills

Kong Gao, Psychology

LED Throwies: Magnetic Light and Inter-Active Graffiti Art

Kaitlin Gillis, Chris McCleary, Kara Patrick, Michael Thompson, Samantha Vaughn, Jesse Wittmeyer, Visual Arts and New Media

Yield Rates and Capital Budgeting

Melissa Gorzynski, Mathematical Sciences

Necessity: Prostitution in Charleston, SC and Seville, Spain

Charles Hayward, History

Genetic Analysis of Fecal Bacteria from Lake Erie Beach Waters

Michael O'Hara, Biology

A Retrospective Analysis of A High School Football Team

John Pape, Psychology

*Are Male Little Brown Bats, *Myotis lucifugus*, Biased When Choosing Females for Mating Based on Scent?*

Kevin Rose, Biology

Effects of Differing Hydrology and Substrate on Germination of Woody Plants in a Swamp Environment

Alexander Stauch, Biology

A Retrospective Analysis of TJ Maxx

Clara Wright, Psychology

Student Perceptions of Computer Science

Andrew Yolevich, Computer and Information Sciences

3:00 p.m. to 3:30 p.m.

Slave and African American society in early New Amsterdam and New York City

Benjamin Blair, History

Examination of the Interplay Between DNA Damage and Insulin Signaling

Malachi Blundon, Biology

A Retrospective Analysis of People, Inc.

Molly Bojanek, Psychology

Disease in Atlantic Port Cities
Lauren Cook, History

A Retrospective Analysis of Unity Health Systems Total Sports Experience
Brent Davis, Psychology

Volcanic Eruptions and Anthropology: the Human Response
Katherine Dvorak, Anthropology

Interest In and Use of Podcasts in Classes of Various Disciplines
Nicholas Hellmer, Psychology

Issue Tracking with Sharepoint 2007
Greg Jackson, Computer and Information Sciences

A Retrospective Analysis of Charlotte Russe
Catherine Salisbury-Ruf, Psychology

Cryptography & Terrorism
Michael Seay, Computer and information Sciences

The Royal Navy, Shipbuilding, and Economics of Portsmouth England
Andrew Szuba, History

A Historical Examination of The Relationship Between The Chautauqua County Vineyards And Latino Populations
Andrew Tod, Andrew Davis, History

3:30 p.m. to 4:00 p.m.

Springing into Poetry with the Advanced Poets of ENGL 460
Alexander Durringer, Cais Jurgens, Jordan Long, Andre La Crout, Jennifer Mirabella, Glen Kauffman, Don Brenner, Hailey Guard, Scott Malkovsky, Ayla Dziruch, Shannon McGovern, Eddie Novara, Ingo Hutzenlaub, Julie Denero, Jennifer Peters, Brittany Krise, English

A Retrospective Analysis of The National Sports Academy
Ian Evans, Psychology

Women as Merchants in Charleston, SC
Shannon Gill, History

Philadelphia's Yellow Fever Epidemic of 1793
Christopher Holmes, History

Delta Mu Delta Honor Society Biennial Conference
Mary Meyer, Faith Wester, Business Administration

What were the factors that drew Poles to Dunkirk. Why did Poles establish numerous social clubs in Dunkirk but not Jamestown.
Daniel Morton, Andrew Glover, History

A Taste of Puerto Rico
Mark Pringle, Modern Languages

Historical Housing pattern and destruction of Urban Renewal: The Italians of Dunkirk and Jamestown
Ryan Quinn, History

The Effects of Innuendo on Impression Formation
Theresa Richir, Sociology

PUERTO RICO: Traditions, Beliefs and Legends of People

Linda Ruiz, Modern Languages

Math is Mean

Allison Spencer, Mathematical Sciences

A Retrospective Analysis of SPX Lightning Mixers

Julianna Taylor, Psychology

5:00 p.m. to 5:30 p.m.

Mathematics Lesson with Potential form Mathematics Teachers with Potential – Lesson Plan

Tessellations

Angela Beck, Nick Raynor, Josh Zebracki, Mathematical Sciences

Digital Image Watermarking

Jacob Darling, Computer and Information Sciences

Anthrax

Alicia Dill, Biochemistry

Development of Stream profiles using GIS methods in comparison to traditional hand-developed profiles

Tim Dillon, Geosciences

Using a book club to increase reading scores at a federal correctional facility

Joseph Fisher, Psychology

National Council on Education for the Ceramic Arts (NCECA) Through a Student's Eyes

Susan Kornacki, Kim Brandl, Visual Arts and New Media and English

Causes of Stigmatized Behavior

Julie Knupfer, Psychology

Freetown as a relocation for captured slave

Rebecca Lawrence, History

Wii Fit as an Exercise Program

Daniel Longo, Exercise Science

Mathematics Lesson with Potential form Mathematics Teachers with Potential – Lesson Plan Geometric Construction

Robert Longtin, Trevor Nelson, Robert Rappole, Mathematical Sciences

Marketing for Awareness

Sara MacLeod, Megan Riley, Biology

Chautauqua County Home: Integrating Biology and Public Health

Clare Miller, Sociology

Mathematics Lesson with Potential form Mathematics Teachers with Potential – Lesson Plan – Polar Coordinates

Brian Moorish, Shane Hood, Rianne Steenhoff, Mathematical Sciences

A short Course on Puerto Rico

Brian Pope, Spanish

At the Chautauqua County Public Health Department: Learning How to Prepare a Community

Victoria Roberts, Sociology

Nineteenth Century Coopering

Matthew Sanbury, History

Big Read in Brocton

Ashley Zengerski, English

5:30 p.m. to 6:00 p.m.

A Retrospective Analysis of J.C. Penney

Erich Brunner, Psychology

A Retrospective Analysis of Wegman's

Katie Christian, Psychology

Illuminating the Misrepresentation of Women within the Literary World by Giving Voice to "Unheard Women" through Poetry

Ashley DeJohn, English

A Retrospective Analysis of Fredonia Men's Club Volleyball

Nick Gentile, Psychology

NCTE Conference: Professional Development Opportunity

Joseph Lantz, English Adolescence Education

A Retrospective Analysis of The Registrar's Office

Rachel McMahan, Psychology

Integration of Biology and Public Health

Jennifer Reese, Public Health

FUSITT Trip to USITT

Samantha Sayers, Theatre and Dance

OASIS BORDER TOWNS: Studying Ethnic Minority Communities in Western China

Chengcen Su, Sociology

6:00 p.m. to 6:30 p.m.

A Retrospective Analysis of Fredonia Place

Jessica Henry, Psychology

Chautauqua County Health Department

Alexandra Lugo, Public Health

A Retrospective Analysis of Wal-Mart

Caitlin Shea, Psychology

6:30 p.m. to 7:00 p.m.

A Study of Notes: Guided Notes versus Student-Taken Notes

Kristi Jo Bockhahn, Mathematical Sciences

Environmental Health

Brittany Heatherington, Pasquale Leone, Public Health

The Complexity of Complex Fractions

Hallie Johns, Mathematical Sciences

Stock Market

Douglas Malayny, Jacob Roncone, Business Administration

9:00 p.m.

Behind the Williams Center, Suite Side

Car Bomb: An Interactive Light Graffiti performance (audience participation requested)

Lisa Bove, Kaitlin Gillis, Amanda Kiesel, Chris McCleary, Rachel Minstretta, Zach Murray, Abbott Nixon, Amber Pasiak, Kara Patrick, Michael Thompson, Samantha Vaughn, Jesse Wittmeyer, Visual Arts and New Media

ORAL PRESENTATIONS

Room S103 – Pucci Room

1:20 p.m. to 1:40 p.m.

Stock Trak Project

Eric Vohwinkel, Phil Fratelli, Business Administration

2:00 p.m. to 2:45 p.m.

Trident Presentation and Reading

Alexander Gripe, English

3:40 p.m. to 4:00 p.m.

Deontic Logic: A Study of Obligation and Duty

Eric Schwob, Philosophy

5:00 p.m. to 5:20 p.m.

Swedish Immigration from Jamestown, New York

Kevin Kline, History

ORAL PRESENTATIONS

Room S104

12:40 p.m. to 1:00 p.m.

Tradition Through Religion

Megan Maxfield, History and Spanish

1:00 p.m. to 1:20 p.m.

Atmotag.com

Nicholas Gunner, Environmental Science

1:40 p.m. to 2:00 p.m.

Differences in Psychological Strengths Between Social Classes

Samuel Planck, Psychology

2:00 p.m. to 2:20 p.m.

Video Clips and Attitudes
Samuel Planck, Psychology

2:20 p.m. to 2:40 p.m.

Music as an art form and way of expression in Puerto Rico
Marianne Drzymala, Johnetta Kenner, Foreign Languages

2:40 p.m. to 3:00 p.m.

Art in Puerto Rico
Elizabeth Hitchcock, Spanish

3:20 p.m. to 3:40 p.m.

NAFTA'S Negative Effects on Rural Mexico
Dawn Chamane-Bush, International Studies

ORAL PRESENTATIONS
Room S121

12:40 p.m. to 1:00 p.m.

Jamaican Culture and Traditions
Aziza Anderson, Communication

1:00 p.m. to 1:20 p.m.

US Foreign Policy and the Macedonian-Greek Name Dispute
Zhikica Pagovski, International Education

1:20 p.m. to 1:40 p.m.

Hitler: A Monopoly over the Third Reich
Zhikica Pagovski, International Education

2:00 p.m. to 4:00 p.m.

Women Writers: Poetry Research Project
Amanda Babyak, Sarah Black, Sarah Bradley, Elizabeth Bryson, Amanda Ciesielski, Hannah Delansky, Mary Beth Eckley, Brianna Farina, Megan Fink, Amanda Hebing, Mary Hilton, Kimberly Krenzer, Chelsea McDonald, Caitlin McMahon, Christina Michalek, Sarah Prisaznuk, Shawna Racino, April Schlenker, Sarah Shulman, Vanessa Snyder, Megan Stockmeyer, Caelan Tracy, Amanda Tuggle, Lauren Williams, Kristen Willman, English

5:00 p.m. to 5:20 p.m.

Comparative Student Governance: Student Association SUNY Fredonia vs. Student Government American University in Bulgaria
Zhikica Pagovski, International Education

5:20 p.m. to 5:40 p.m.

Study Abroad: The American University in Bulgaria- Feel the Magic of Bulgaria and Southeastern Europe
Zhikica Pagovski, International Education

6:00 p.m. to 6:20 p.m.

The O.A.S.; the Almost In Fame OAS
Lorena Helguin Gomez, International Studies

6:20 p.m. to 6:40 p.m.

The O.A.S.; the Almost In Fame OAS
Amanda Richards, Sociology

**VISUAL ARTS AND NEW MEDIA PRESENTATIONS
Room G138**

Opening Reception at 12:00 p.m.

Group Project

Grandpa Pipe
Jon Simmons

Untitled
Jon Simmons

Untitled
Megan Sullivan

Blocks
Nathaniel Bailey

The Plastic Frosty Watch
Pat Depuy

Mentor: Mr. Phil Hastings, Visual Arts and New Media

Group Project

“An Orange For a Bellybutton”
Lindsay Holmes, Aaron Mrowka, Lizzie Reid

“Illumination”
Heather Personett, Brandon Prinzi, Erich Von Hasseln

“Line Drawn Exercise 2”
Fred Duchow, Joe Grise, Mike Hernandez, Lindsay Holmes, Jason Hinkley, Cassie Johnson,
Katie McCarthy, Brittany Matthews, Aaron Mrowka, Afura Faree-Muhammad, Jeff Proud,
Jason Rappold, Lizzie Reid, Jessica Sobczyk, Thomas Storm, Matt vanLieshout

Mentor: Ms. Jill Johnston-Price, Visual Arts and New Media

Individual Projects

Rotoscope Project

Matt vanLieshout

Gears

Marlon Benloss

The Coyote's Wail of Sorrow

Erich Von Hasseln

Lazy Waters

Heather Personett

Bahay

Francis Toriaga

Industrial Hymenoptera

Brandon Prinzi

Max

Jessica Sobczyk

MUSICAL PERFORMANCES

The Spot/Campus Grind

3:00 p.m.

Beethoven String Quartet Op.59 No.3 Andante con moto quasi Allegretto

Michael Herring, violin; YoonHee Chun, violin; Emily Zaita, viola; Isaac Tayrien, cello

3:10 p.m.

Playing Prelude from Bach Cello Suite No. 2 in D minor

Paul Swenson, Music

3:30 p.m.

monologue from Scrubs

Danielle Pelcher, Theatre and Dance

"Way Ahead of My Time" by Peter Mills

Rick Doetterl

"Diva" from Starmites

Kristine Hsia, Theatre and Dance

monologue from Like a Monet by Jordan Rizzieri

Ariel Mombrea, Theatre and Dance

monologue from Thieves by Herb Gardner

Ben Sheedy, Theatre and Dance

"Screw Loose" from Crybaby

Camellia Tatara, Theatre and Dance

“Renegade” by Styx
Andrew Sklar, Theatre and Dance

“Beyond My Wildest Dreams” from Little Mermaid
Jessi St. George, Theatre and Dance

“Alone” from I Love You Because
Jacqueline Rosenthal, Theatre and Dance

“Stranger in This World” from Taboo
John Crampton, Theatre and Dance

“More than Anyone” by Gavin DeGraw
Mark Reeve, Theatre and Dance

monologue from Fat Pig by Neil LaBute
Julie Schillaci, Theatre and Dance

monologue from Reasons to be Pretty by Neil LaBute
Dan Evans, Theatre and Dance

Mentor: Ms. Jessica Hillman-McCord, Theatre and Dance

3:45 p.m.

The following musical numbers from ***Kiss Me, Kate***:

“Wunderbar”
Elizabeth Ruff and Rick Doetterl, Theatre and Dance

“Tom, Dick or Harry”
Michael Pugliese, Michael Valvo, Thomas Raynor, Kristine Hsia, Theatre and Dance

“Brush Up Your Shakespeare”
Andrew Sklar and Andy Herr, Theatre and Dance

Accompaniment by Shinobu Takagi, Music

Mentor: Mr. Paul Mockovak, Theatre and Dance

Dancing Performance - Room S104

3:45 p.m.

Dancing: Intermezzo
Music – St. Paul’s Sutie by Gustav Horst

Joseph Corallo, Amanda Kellner, Theatre and Dance

Mentor: Ms. Angelika Summerton, Theatre and Dance

Dancing: 90% Metaphor
Music – Self-Evident by Ani DiFranco

Joseph Corallo, John Crampton, Owen Hughes, Jacqueline Rosenthal, Julie Schillaci, Theatre and Dance

Mentor: Ms. Samantha Kenney, Theatre and Dance

GRADUATE STUDENT PRESENTATIONS
5:15 P.M. TO 7:00 P.M.
SECOND LEVEL, WILLIAMS CENTER

The Effects of Artificial Night Lighting on the Little Brown Bat, Myotis lucifugus
Laura Alsheimer, Biology

Chuck Palahniuk as an Existentialist
Amanda Anderson, English

Assessing the Validity of ELLs
Ashley Belke, Language, Learning, and Leadership

Structural Determination of the dodecamer 5'-GCGCAATTGCGC-3' via nuclear magnetic resonance spectroscopy
Kyle Berger, Chemistry

Reclaiming Welsh: Bilingual Education in Wales
Amanda Bogert, Language, Learning, and Leadership

Readability of New York State Regents Algebra Exams over the Last Twenty Years
Kalan Brown, Mathematical Sciences

Paddlefish (Polyodon spathula) Movement in the Allegheny River System
Richard Budnik, Biology

Typha latifolia versus phragmites australis: the competitive abilities of typha against phragmites to test whether typha would be a good reintroduction species in areas of phragmites invasion.
Michael Cross, Biology

Does Proficiency Level Affect Classroom English Use
Sarah Georgian, Language, Learning, and Leadership

Does Proficiency Level Affect Classroom English Use
Constance Hadley, Mathematical Sciences

Examining Chinese Translation Problems in English/Chinese Bilingual Children's Picture Books
Qiayoa Huang, Education (TESOL)

A Literature Unit Surrounding Speak
Jessica Kalny, English

Honesty or Deception? Is there an opportunity for deception in the aggressive call of the male house cricket (Acheta domesticus)?
Alex Ladowski, Andrea Solano, Biology

Should We Teach SMS Jargon in Class?
Nicole Nichter, Education (TESOL)

Genetic Evidence Supporting Male Site Fidelity in Smallmouth Bass (Micropterus dolomieu) in Lake Erie
Nicholas Sard, Biology

How Much is Enough? A Study of the Effect of Homework Length on Homework Completion and General Achievement in the High School Mathematics Classroom
Justin Steger, Mathematical Sciences

Does Knowing Real-Life Mathematics Help? A Relationship between Comparison of Solution Strategies and Achievement in Isomorphic Word/Numeric Problems in 8th Grade Mathematics
Wesley Tubba, Mathematical Sciences

Macbeth Video Project
Michael Wayman, English

Graduate Student Oral Presentations Room S104

5:40 p.m. to 6:00 p.m.

Minorities in Jamaica 1600-1850
Patrick Newell, Andreau Emerling, History

6:00 p.m. to 6:20 p.m.

Harmony in the Medley of ESL Classrooms
Barton Colmerauer, Education (TESOL)

REMARKS S104 Williams Center

4:15 p.m. Dr. Dennis Hefner, President

 Dr. Virginia Horvath, Vice President for Academic Affairs

 Dr. Jack Croxton, Director of the Office of Student Creative Activity and Research

KEYNOTE SPEAKER S104 Williams Center

4:30 p.m. Keynote Speaker – Dr. Jamie Wasilenko

Dr. Wasilenko grew up in Auburn, NY and then attended SUNY Fredonia where she received her BS in Recombinant Gene Technology in December 2000. While at Fredonia she participated in an undergraduate research project in the Biology Department studying the microbial ecology of Lake Erie. After her undergraduate studies, she attended Emory University in Atlanta, GA for graduate school where she obtained her Ph.D. in Genetics and Molecular Biology in August 2006 and studied the metabolic disorder galactosemia. She then became a Research Microbiologist at Southeast Poultry Research Laboratory, United States Department of Agriculture, Agricultural Research Service in Athens, GA where she currently performs research on highly pathogenic influenza viruses.

RECEPTION IMMEDIATELY FOLLOWING

ABSTRACTS

Two in the same: Environmental Health and Mental Health

James Adesida, Bethany Dragert, Sociology
Mentor: Dr. Linda Dorsten, Sociology

Environmental Health division of Chautauqua County is responsible for evaluating and regulating the surroundings where people live, work, and recreate. Sanitarians monitor certain facilities such as restaurants, public pools and beaches, public water supplies, hotels/motels, campgrounds, children's camps, mobile home parks, private sewage systems and commercial sewage systems. Through use of preventative measures, they ensure a positive and safe environment for all members of the community. The ultimate goal is to decrease the number of hazards that the publics are exposed.

The wellness model of mental health encompasses all aspects of an individual's life including positive physical health and a safe environment. Health Psychology enforces a holistic approach in regard to positive health. Our experience revealed the importance of enforcing standardized regulations of environmental settings various cohorts come into contact with daily. Over exposure to particular toxins in these environments can have crippling effects on ones physical and mental development.

The Effects of Artificial Night Lighting on the Little Brown Bat, *Myotis lucifugus*

Laura Rose Alsheimer, Biology
Mentor: Dr. Karry Kazial, Biology

With increased human development, light pollution has progressively become more of an ecological problem for a variety of species including mammals, birds, reptiles and amphibians (Rich and Longcore, 2006). As the implications of artificial light became more widely understood, effects of light pollution were revealed with other systems. The little brown bat is an important part of the ecosystem at the Chautauqua Institution, especially in helping to keep the insect population at a tolerable level and is well loved and protected by the people who reside there. Not many studies have been done to the effect of artificial night lighting on bats; however it could affect their calls, flight behavior and feeding methods. This summer I will investigate the effect of artificial lighting on foraging behavior and echolocation, to determine the effect that artificial lighting has on the population of little brown bats in this area.

Women Writers: Poetry Research Project

Amanda Ambrose, Amanda Babyak, Sarah Black, Sarah Bradley, Elizabeth Bryson, Amanda Ciesielski, Hannah Delansky, Mary Beth Eckley, Brianna Farina, Megan Fink, Amanda Hebing, Mary Hilton, Kimberly Krenzer, Chelsea McDonald, Caitlin McMahon, Christina Michalek, Sarah Prisaznuk, Shawna Racino, April Schlenker, Sarah Shulman, Vanessa Snyder, Megan Stockmeyer, Caelan Tracy, Amanda Tuggle, Lauren Williams, Kristen Willman, English
Mentor: Dr. Adrienne McCormick, English

Twenty-six students from ENGL 314 Women Writers class will present their research on contemporary women poets. They each have a short assignment to research one poet, choose a poem of hers, read it, and present findings from one critical source on that poet or poem.

Boston as an Atlantic Port City

Amanda C. Ambrose, English
Mentor: Dr. Nancy Hagedorn, History

This project is still a work in progress but will be a poster presentation of a paper written for a history capstone class. I will be focusing on Boston through the lens of an Atlantic port cities and urban history. I hope to explore the intellectual components of port city life by using Boston as a case study. The focus will largely be on the creation and proliferation of newspapers in Boston in the late seventeenth and early eighteenth centuries.

Chuck Palahniuk as an Existentialist

Amanda Anderson, English
Mentor: Dr. Jeannette McVicker, English

It is when powerful, well-written prose blends with the right amount of philosophy that existentialist literature emerges. There is arguably no better modern example of this than Chuck Palahniuk's *Fight Club*. The pop-culture-laced work is known by many as being a novel that quickly found a place in modern society, especially considering its popular adaptation into film. Yet where do elements of this existentialism materialize in the text? The theory has a strong history, and one may wonder if Palahniuk is simply putting on a "philosophical guise". Is he really nothing more than a "fast-food existentialist", packaging *Fight Club* for mass consumption? What does this novel really say about aspects of our culture? Is Palahniuk a burgeoning member of an ongoing trend of pop-existentialism? One must fully understand the theory, all it encompasses, and its place in the modern, as well as post-modern, world before he can form an opinion on whether Chuck Palahniuk created a piece of literature that is profoundly grounded in existential roots.

Jamaican culture and traditions

Aziza Anderson, Communication

Mentor: Ms. Mary Sasso, International Education

During the summer of 2009 I became fascinated in the Jamaican culture and traditions. What started off as a one month exploration of Jamaican culture quickly became three months. Jamaica's ability to maintain tradition despite the tremendous poverty and oppression of its people is outstanding and unique. During March, I will visit for 8 days the heart of Kingston, home to both Jamaica's most notorious and luxurious neighborhoods and Mandeville a city/town that still displays English influence in a country setting. I will present Jamaica's unique cuisine, traditions, music, art, clothing and dialect that will give visitors an opportunity to see the real lifestyle of those in Caribbean.

A novel reaction of a silyl ether to form an ester

Dan Austin, Chemistry

Mentor: Dr. Matt Gronquist, Chemistry

The development of novel chemical transformations, carried out under mild conditions, is of particular interest in studies aimed at the synthesis of complex organic molecules. We are currently exploring a novel method for the formation of an ester linkage based on the reaction of a masked alkoxide nucleophile with an activated thioester electrophile.

A Retrospective Analysis of the Aeropostale

Corrine Aviles, Psychology

Mentor: Dr. Jack Croxton, Psychology

See Abstract at the end of abstract page under Psychology

Teachers responses to stereotypes in the classroom

Angela Barney, Psychology

Mentor: Dr. Guy Boysen, Psychology

Incidents of bias still occur within a college classroom, but there is little research that explores this topic. To learn more about how students perceive interactions that occur in college classrooms, undergraduates completed a survey in which they were asked to describe how professor should respond to bias in the classroom. Participants also rated the effectiveness of specific types of responses at achieving specific classroom goals. We experimentally manipulated the type of bias expressed in order to determine if responses are most effective when matched with specific types of bias. The results will inform effective management of difficult dialogs in college classrooms.

A Retrospective Analysis of Wegman's

Anne Barone, Psychology

Mentor: Dr. Jack Croxton, Psychology

See Abstract at the end of abstract page under Psychology

A Retrospective Analysis of Sullivan's Charbroil

Elizabeth Bauza, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of abstract page under Psychology

Mathematics Lesson with Potential form Mathematics Teachers with Potential Lesson Plan Topic - Tessellations

Angela Beck, Nick Raynor, Josh Zebracki, Mathematical Sciences

Mentor: Dr. Keary Howard, Mathematical Sciences

From fractions to calculus and plenty in between, plan to view highlights of award winning lesson plans in middle and secondary mathematics classrooms. Creativity and innovation are featured in these lessons presented by senior Fredonia student teachers. The lesson plans were selected for presentation at the Association of Mathematics Teachers of New York State (AMTNYS) state-wide conference in Buffalo, NY.

Assessing the Validity of ELLs

Ashley Belke, TESOL

Mentor: Dr. John Lontas

Federal law mandates English language learners (ELLs) be included in content area assessments, yet such assessments may conceal the knowledge and skills ELLs possess. The most important validity issues concerning ELL assessments will be presented as well as recommendations and methods used for evaluating such issues. Testing accommodations and the relevancy and effectiveness to ELLs will also be discussed.

Box

Marlon Benloss, Visual Arts and New Media
Mentor: Mr. Phil Hastings, Visual Arts and New Media

An experimental Video focusing on the lustful obsession of one man toward an inanimate object.

Structural Determination of the dodecamer 5'-GCGCAATTGCGC-3' via nuclear magnetic resonance spectroscopy

Kyle Berger, Chemistry
Mentor: Dr. Matthew Fountain, Chemistry

2-Dimensional NMR spectroscopy was used to determine the structure of the DNA dodecamer GCGCAATTGCGC in solution. TOCSY and NOESY 2D-NMR spectra were collected and the spectra were used to generate a series of atomic distance restraints. These atomic distance restraints were then used in combination with the program molecular modeling program DYANA to create several thousand different possible proposed structures. The target function, f , was then used to pick out the best structures that were generated by DYANA. The 20 structures with the lowest f value were chosen as representatives of the molecule in solution. These structures were then analyzed through the use of cluster analysis and a few other methods.

Slave and African American society in early New Amsterdam and New York City

Ben Blair, History
Mentor: Dr. Nancy Hagedorn, History

I will be taking a look into the lives of slaves in the early formation in New York City. As such I will take a narrower look into how they obtained freedom in NYC and once slavery was outlawed what type of occupations free slaves would obtain.

Examination of the Interplay Between DNA Damage and Insulin Signaling

Malachi Blundon, Susan Cronin, Biology
Mentor: Dr. Scott Ferguson, biology

We study the mechanisms that dictate the translational control and localization of important developmental RNAs through the use of genetic, biochemical, and molecular biological techniques. Specifically we use the regulation of gurken mRNA during the development of the Drosophila egg as a model for these processes. gurken expression is a key step in establishing the body axes of the future embryo. We are testing several hypotheses that will allow us to explain the mechanisms by which ovarian gurken translation is influenced by the nutritional state of the fly. We have also identified regulatory factors of gurken translation by molecularly characterizing mutations that affect the expression of the Gurken protein. The Gurken protein has homologues in humans. By studying models of RNA regulation, we will gain important insights that can be applied to the study of human diseases such as the development of cancer, diabetes, and neurological plasticity.

A Study of Notes: Guided Notes versus Student-Taken Notes

Kristi Jo Bockhahn, Mathematical Sciences
Mentor: Dr. Keary Howard, Mathematical Sciences

The purpose of the study was to examine the role of note-taking strategies, specifically guided-notes and student-taken notes on students' academic achievement in mathematics classrooms. During a four-week session, the students were given two notebook quizzes a week. For these quizzes, the students were able to use their notes.

For each lesson, the students either received guided-notes or had to take their own notes. The notebook quizzes were split up so that half of them were given after guided-notes and the other half were given after student taken notes.

After giving out four notebook quizzes, a survey was passed out that asked students which note-taking strategy they preferred and why. At the end of the four-week session, the students received the same survey and the answers were compared. Also, the differences in scores on the notebook quizzes based on the type of note-taking strategy implemented were compared.

Reclaiming Welsh: Bilingual Education in Wales

Amanda Bogert, Catherine Riesedel, Language, Learning, and Leadership
Mentor: Dr. Kate Mahoney, Language, Learning, and Leadership

In May 2009 Dr. Mahoney, her mother, and eight College of Education students travelled to Swansea, Wales to gain insight into the continuum of successful bilingual programs offered in Wales and hands-on experience working with culturally and linguistically diverse students. This poster session, conducted by three of the students, will allow attendees to learn how the Welsh reclaimed their language and reinforced their ethnic identities. Attendees will gain a brief overview of the 20-year-old SUNY Fredonia College of Education Wales Exchange program, the Welsh history encompassing the language shifts from a Welsh dominant to an essentially English-Only environment to the sovereign, bilingual nation within the United Kingdom known today, and the many excursions included in the trip, including a tour and seminar at the Centre for Research on Bilingualism in Theory and Practice at Bangor University in North Wales.

A Retrospective Analysis of People, Inc.

Molly Bojanek, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of abstract page under Psychology

Whose Orgasm is it?: Faux Orgasms and Women's Sexual Subjectivity

Claire Boyles, Lesley Shepard, Psychology

Mentor: Dr. Ingrid Johnston-Robledo, Psychology

Very few researchers have studied the common phenomenon of faking orgasm among women. The purpose of this exploratory study was to obtain detailed information about women who fake orgasm such as their reasons for faking, sexual functioning, and the frequency with which they fake orgasm. We also examined psychosexual correlates of faking orgasms. Eighty-three undergraduate women participated in an online survey. Consistent with earlier work, 60% of our participants admitted to faking orgasm and the most common reason was to please their partners. Women who faked more frequently were not less capable of orgasm during masturbation or sex but viewed orgasm as important to sexual relationships. They were also less modest and more open to casual sex than women who faked less frequently. Most of the constructs from Objectification Theory were not correlated with the frequency of faking orgasm. Implications for future research are discussed.

Public Health Job Shadowing Mind Map

Claire Boyles, Public Health

Mentor: Dr. Linda Dorsten, Sociology

My Public Health internship through the Chautauqua County Health Department has given me an in depth look into how public health works in the community. I assessed the Chautauqua Community Health Assessment for 2010-2013 for HIV and STD prevalence in Chautauqua County in order to get grant money for the county to build new clinics, particularly in rural areas.

This internship has been relevant to the female sexuality research I have been doing in my psychology major. HIV and STD clinics are important to detect diseases early and prevent them from spreading. These clinics contribute to the overall health of the community. It is my hope that the statistical analysis of the data I assess will ultimately lead to more clinics being opened in Chautauqua County.

Readability of New York State Regents Algebra Exams over the last Twenty years

Kalan Brown, Mathematical Sciences

Mentor: Dr. Keary Howard, Mathematical Sciences

Many mathematics educators have been concerned that New York State Regents examinations have become wordier and less readable. To test this hypothesis, this research examines Algebra exams over the past 20 years. This period covers three significant curriculum shifts: from Course I, to Math A, and now the current Integrated Algebra exam. Differences and similarities over time in regards to readability will be highlighted.

A Retrospective Analysis of J.C. Penney

Erich Brunner, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of abstract page under Psychology

Paddlefish (*Polyodon spathula*) Movement in the Allegheny River System

Richard Budnik, Biology

Mentor: Dr. William Brown, Biology

The historic range of paddlefish (*Polyodon spathula*) is the Mississippi River and its drainages including the Allegheny River. Paddlefish became locally extinct in New York and Pennsylvania in the early 1900s due to river channelization, dam construction, and water quality degradation. Even with water quality improvements the building of the Kinzua Dam in 1968 prevented any upstream dispersal of paddlefish into the headwaters of the Allegheny River. Although the dam construction has eliminated traditional spawning sites, the reservoir upstream of the Kinzua dam is predicted to provide an ideal environment for the recovery of paddlefish populations in New York and Pennsylvania.

30 adult paddlefish were implanted with radiotransmitters and tracked over a 2 year span. GPS coordinates of tracked individuals were recorded and analyzed using Geographic Information Systems in order to assess seasonal movements and habitat use.

Analysis of RNA-Protein Interactions in Living Cells

Dane M. Buenten, Biology

Mentor: Dr. Scott B. Ferguson and Dr. Bruce L. Tomlinson, Biology

A protein called Gurken controls dorsal ventral polarity in Drosophila eggs. The Squid protein is hypothesized to interact with Gurken mRNA to regulate the dorsal/ventral axis of the egg. Squid has been shown to both localize Gurken mRNA to the dorsal-anterior side of the oocyte and to silence the expression of Gurken throughout the remainder of the egg. To determine if Squid and Gurken interact, two unique plasmids will be constructed. One plasmid will contain Squid and half of the green fluorescent protein Venus and the second plasmid will bring the other half of the Venus Fluorescent protein to Gurken RNA. Transgenic Drosophila ovaries will be generated that contain both of these molecules. Venus will not fluoresce unless the two halves of the molecule are reunited. If Squid does interact with gurken mRNA as predicted, the two halves of Venus should complement each other and produce fluorescence.

NAFTA'S Negative Effects on Rural Mexico

Dawn-Chamane Bush, International Studies

Mentor: Dr. Ivani Vassoler, Political Science

I am submitting a research paper that I will be presenting at the MACLAS (Mid Atlantic Council on Latin American Affairs) conference on March 26th-27th, at John Hopkins University. My topic focus on the NAFTA's negative impact on Mexico.

The North American Free Trade Agreement (NAFTA) is an international trade agreement between Canada, Mexico, and the United States. NAFTA has been causing problems for farmers and other rural peoples living in Mexico. Part of this is because of the loss of land, and the overall environmental degradation to it. In addition, the reliance on unfair jobs within the maquiladora industry has led many of the citizens in rural Mexico to continue to face lower living standards. In order to make sure that this free trade agreement is fair, there is a necessity to revise NAFTA so that those living in Mexico can see the benefits from this treaty.

Flow and Motivation During Leisure and Work Activities

Amanda Caldwell, Psychology

Mentor: Dr. Jack Croxton, Psychology

An aspect of positive psychology that, when studied, will likely have a positive impact on one's everyday life is Mihaly Csikszentmihalyi's concept of flow. Flow is a momentary experience during which one is completely absorbed in a task, is not aware of the passing of time when engaged in this task, and loses his/her sense of self-consciousness during the task. The state of flow occurs during activities that require an individual to use his/her skills to their full potential. The impact of flow has been studied for individuals in work related and leisure settings. Though individuals are likely to enter a flow state when the task that they are engaged in is intrinsically rewarding, external rewards may still motivate an individual to choose to engage in a particular task. An individual's personality, or personal motivation concerning life in general, may further influence how readily that person achieves the flow state.

USITT

Jennifer Lynn Carlson, Theatre and Dance

Mentor: Steve Rees, Theatre and Dance

I will be presenting information about the USITT (United States Institute of Theatre Technology) conference. I will also be explaining the educational value that students receive from attending, as well as the opportunities it presents to college students that are pursuing a career in the entertainment world.

Analysis of several 2S1/2 Rydberg Systems using the long range model

Cody Chambers, Physics

Mentor: Dr. Erica Snow, Physics

When an electron is highly excited but still weakly bound to a positive ion core it is known as a Rydberg state. High-angular-momentum (high-L) Rydberg state electrons follow nearly circular orbits. Since the excited electron essentially does not penetrate the ion core the system can be described nearly as would a hydrogen atom, for which we have a known exact solution. The measurable difference from the hydrogenic analysis is due to properties of the positive ion core such as polarizabilities and permanent multipole moments. The long-range polarization model can be used to extract these fundamental properties from the measured Rydberg energies. The polarizability of an atom, molecule, or ion is directly correlated to other properties such as lifetimes, dielectric constants, and index of refraction. A presentation of the analysis of several 2S1/2 Rydberg systems with 1S0 ion cores using the long-range model will be given.

A Retrospective Analysis of Wegman's

Katie Christian, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of the abstract page under Psychology

Harmony in the Medley of ESL Classrooms

Barton Colmerauer, TESOL

Mentor: Dr. John Liontas, TESOL

For ESL educators, creating differentiated lessons for diverse classrooms can be difficult. However, when facing lessons with knowledge of sociolinguistics and the multiple intelligences, teachers should encourage students to use English to explore their

differences. This presentation reviews various pedagogical applications of sociolinguistics as well as the multiple intelligences and provides specific activities for embracing the diverse needs of ESL classrooms.

Disease in Atlantic Port Cities

Lauren Cook, History

Mentor: Dr. Nancy Hagedorn, History

My topic is about Atlantic port cities and how they are a good place for disease outbreaks to occur. I look at factors such as the coming and going of ships and brothels to show how diseases were spread in port cities. I also look at what the port cities did to try and prevent disease outbreaks, such as quarantining ships, and whether or not these actions were successful.

Typha latifolia versus phragmites australis: the competitive abilities of typha against phragmites to test whether typha would be a good reintroduction species in areas of phragmites invasion

Michael Cross, Biology

Mentor: Dr. Jonathan Titus, Biology

Phragmites australis has recently become a problematic invasive species in North American wetlands. Once Phragmites has invaded and established it can cause detrimental effects to the habitat, native plants, and animals. There are some treatments in use such as cutting and herbicides but these treatments leave rhizomes behind. Little is known or tested as to whether a native species present before invasion could be reintroduced in these areas. The reintroduction of a native species could help to heal the affected wetlands by improving wetland functions and increase wetland health. A species that could be tested is Typha latifolia or broadleaf cattail. Since both species spread vegetatively by rhizomes, we would utilize greenhouse and field experiments testing the competitive abilities of Typha versus Phragmites using rhizomes.

Gatorade vs. Propel

Gwendolyn Curtis, Sport Management

Mentor: Mr. Todd Backes, Sport Management

The purpose of our research is to examine how two common hydration methods affect exercise performance of Division III female athletes. Subjects will be split up into a Gatorade group and a Propel group. The rationale for Gatorade and Propel is that although these two drinks may both be chosen as common hydration method they have different nutritional profiles. Propel is a zero calorie drink whereas Gatorade provides carbohydrates for energy.

The drinks will be given to the women prior to practice. The data collection will take place over a five week time period. The data collected will include but not be limited to: urine (glucose, specific gravity, pH, and protein levels) at both pre and post practice points. Data will also be collected for a performance variable (1mile run) for both Gatorade and Propel groups.

Our hypothesis is that the Gatorade will have more affect on mile times.

Using H1N1 Vaccination Data to better prepare for emergency situations

Valerie Cutt, Public Health

Mentor: Dr. Linda Dorsten, Sociology

The Chautauqua County Health Department (CCHD) works to keep everyone in the county aware of opportunities that they have to stay healthy and the benefits that are offered. Through the H1N1 vaccine clinics available to the residents of Chautauqua County many potential lives were saved. Efforts of many different people have been put in to help keep Chautauqua County healthy and safe. The Health department works with other agencies such as emergency services, police departments and nurses.

Through our analysis of the H1N1 vaccination data collected by the CCHD more lives can be saved. With the CCHD I will be analyzing the data (for example gender, age, geographic area) and making comparisons about who received the vaccine the most, who had the vaccinations most accessible and where the best areas to have more clinics would be. Through this we will be able to project for future events what a good course of action would be and where would be the most beneficial and accessible sites for clinics, and also hopefully reach out to groups or areas that did not get enough coverage.

My Criminal Justice major connects with this topic by coordinating police with the Department of Public Health to ensure safe, easy access to vaccination for future events. Preparedness is a major aspect of Public Health and Criminal Justice, so keeping clinics organized is an added benefit. Planning and keeping Law Enforcement informed about clinics geared toward places such as malls or schools can be beneficial by keeping the clinic controlled by the local police officers.

Digital Image Watermarking

Jacob Darling, Computer and Information Sciences

Mentor: Dr. Ziya Arnavut, Computer and Information Sciences

Image watermarking is used every day and it becoming more popular as we move toward a digital world. Creators want credit for their works and need watermarking to be able to identify themselves in a controversy. My poster will be a representation of several

different techniques for digital image watermarking. I will compare the differences between them and show the effect they have on image quality. I will use what is known as least significant bit substitution and discrete cosine transformation as the techniques.

A Retrospective Analysis of Unity Health Systems Total Sports Experience

Brett Davis, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of the abstract page under Psychology

Design in Washington DC Poster

Daniel Dayton, Megan Price, Derek Piccola, Katie Latson, David Hunt, Kim Steinhilber, Aaron Bueg, Rachael Walden, Tom Storm, Jackie Bowser, Visual Arts and New Media

Mentor: Ms. Margaret Urban, Visual Arts and New Media

The group of AIGA is going to create a poster describing the design world in Washington DC, while showing pictures and explaining what we saw while visiting the nation's capitol.

Mental Health Stereotypes about Gay Men

Michael Dejesus, Psychology

Mentor: Dr. Guy Boysen, Psychology

This study examines stereotypes about the mental health of gay men. One sample of gay and bisexual men and three samples of college students were each given a variation of the mental health stereotype questionnaire (Boysen et al., 2006). The survey asked participants to rate behaviors on one of three areas, how stereotypical of gay men, how stereotypical of women, or how negative. Results indicate that gay men and bisexual men share a common stereotype about the mental health of gay men with college students while the overall stereotype of gay men shared a majority of behaviors with the stereotype of women. Results suggest that the mental health stereotype about gay men is more negative than positive and more feminine than masculine.

Illuminating the Misrepresentation of Women within the Literary World by Giving Voice to "Unheard Women" through Poetry

Ashley Dejohn, English

Mentor: Dr. Adrienne McCormick, English

Throughout history, women have been oppressed through the demoralized actions and mentalities of men and their patriarchal institutions. The term "Angel in the House" has been identified as being a reoccurring theme and model that is often used for comparison when defining the ideal roles of a woman. The term "Angel in the House" came to be used in reference to women who embodied the Victorian feminine ideal: a wife and mother who was selflessly devoted to her children and submissive to her husband. The phrase "Angel in the House" is derived from the title of an immensely popular poem by Coventry Patmore, in which he holds Emily, his angel-wife, up as a model for all women to follow (Gilbert and Gubar 2: 245). The ideal nineteenth-century woman is "an angel who has been 'killed' into passivity. The Angel dwells inactive in a domestic heaven, with the implicit suggestion that those who leave the domestic heaven are fallen angels" (Heniger 23). In her essay "Professions for Women," Virginia Woolf attempts to explain the characteristics associated with the phrase "Angel in the House":

She was intensely sympathetic. She was immensely charming. She was utterly unselfish. She excelled in the difficult arts of family life. She sacrificed herself daily. If there was chicken, she took the leg; if there was a draft she sat in it—in short she was so constituted that she never had a mind or wish of her own, but preferred to sympathize always with the minds and wishes of others. Above all—I need not say it—she was pure. Her purity was supposed to be her chief beauty—her blushes, her great grace. In those days—the last of Queen Victoria—every house had its Angel. (Rosenbaum 276)

In addition to these defining characteristics, men have often found it necessary to falsify and mystify the role of women by portraying their wives as being a mere object of exchange that was infantile, weak, and mindless in order to establish themselves as the dominant sex in a patriarchal society. Due to the pervasive misrepresentation of women within the literary world many individuals have been influenced to perceive any aspect of women's abilities and personalities within a biologically determined framework. However, women writers such as Carol Ann Duffy and Helene Cixous have demonstrated the idea that women, particularly wives, have the ability to ameliorate their situation by unveiling the body as a vehicle to speak, to communicate, to write, and to assert femininity into the patriarchal arenas of society and literature.

Anthrax

Alicia Dill, Biochemistry

Mentor: Dr. Matthew Fountain, Chemistry

Anthrax has three components of interest: the cellular receptor for the anthrax toxin, the toxin protective antigen, and anthrax lethal factor. Tripartite toxin secreted by *Bacillus anthracis*, the causative agent of anthrax, helps the bacterium evade the immune system and can kill the host during a systemic infection. The receptor, ATR (anthrax toxin receptor), is a type I membrane protein with an extracellular von Willebrand factor A domain that binds directly to the protective antigen (PA). After proteolytic activation of the ATR on the host cell surface, PA forms a membrane-inserting heptamer that translocated the toxic enzymes, oedema factor and lethal factor into the cytosol. Lethal factor (LF) is a highly specific protease that cleaves members of the mitogen-activated protein kinase

kinase (MAPKK) family near to their amino termini, leading to the inhibition of one or more signaling pathways. For a complete understanding all three of these proteins must be explored both independently and collectively.

Public Health and Infection Control

Elaine Dillon, Public Health

Mentor: Dr. Linda Dorsten, Sociology

The Infection Control Department at Brooks Memorial Hospital provides an important contribution to Public Health. Working with a diverse population, the Infection Control Department promotes the health of patients, visitors, and staff both in the hospital and in the community. My shadowing experience in this department was intended to expand my knowledge of infectious diseases, regulations of the CDC and OSHA, data analysis, and engagement with the public.

Through my experience, I was able to observe in-services provided for hospital staff on infection control. I was also able to learn to implement flu clinics and learn about the planning necessary for community outreach.

It has been very interesting seeing the correlations between my major, Social Work, and Public Health. Both of these fields have a strong focus on people and their well-being. These two areas together can be a powerful change agent.

Development of Stream profiles using GIS methods in comparison to traditional hand-developed profiles

Tim Dillon, Geosciences

Mentor: Dr. Ann Deakin, Geosciences

Traditional methods of creating stream profiles involve many painstaking hours measuring distances and elevation changes on a topographic map, the data is plotted on a graph to create a 2D representation of the stream. This method is time consuming and takes careful precision to make the analysis as accurate as possible. A solution to this time consuming problem maybe solved using GIS technology.

Many different methods of developing a stream profile are done using ESRI's ArcMap software, which integrates data into a user friendly interface where it can be manipulated. The Spatial Analysis Toolbar provides ways to extract stream data like distances and elevation to be used in an Excel spreadsheet.

Other methods that are considered for comparison are onscreen digitizing, where XY coordinates are plotted over contour boundaries, and the use of a software program TauDEM (Terrain Analysis Using Digital Elevation Models) that was developed by Utah State University.

Music as an art and Entertainment

Marianne Drzymala, Johnetta Kenner, Foreign Languages

Mentor: Dr. Vivian Garcia

We are focusing on Reggaeton and Bomba music. We chose to focus on reggaeton music because while we were in Puerto Rico, we heard it daily. When we were walking down the street, someone would drive by with it blasting from their car or when we went to different places on the bus, the bus driver would be playing it. We also chose to focus on the bomba music because when we went to Pinones to learn the bomba we walked away with a deeper knowledge of the music along with the history of bomba. We are doing a PowerPoint with facts about each style of music and some pictures of instruments and famous artists in Reggaeton and Bomba music. We are going to try and make a mix cd with some reggaeton songs that we like and some bomba songs that we will play at the presentation.

Springing into Poetry with the Advanced Poets of ENGL 460

Alex Durringer, Cais Jurgens, Jordan Long, Andre La Crout, Jennifer Mirabella, Glen Kauffman, Don Brenner, Hailey Guard, Scott Malkovsky, Ayla Dziduch, Shannon McGovern, Eddie Novara, Ingo Hutzenlaub, Julie Denero, Jennifer Peters, Brittany Krise, English

Mentor: Ms. Aimee Nezhukumatathil, English

The students of ENGL 460, Advanced Poetry Writing, will display and informally talk about the presentation and craft of visual poetry. The poems presented will be from a selection of contemporary poems we have studied during the semester. Each visual poem was "written" with a writing instrument (and often ink!) of their own making to further highlight the process of re-visualizing poems in new and surprising ways. Students will also present their collected works from the semester into a chapbook (small book of poetry) that they designed and bound themselves.

Volcanic Eruptions and Anthropology: the Human Response

Katherine Dvorak, Sociology

Mentor: Dr. Joy Bilharz, Sociology

The effect of volcanism on human populations has been neglected until very recently with the development of interest in natural disasters and the human response. There are two schools of thought associated with a natural disasters effect on a population; one is that the total collapse of the population's social structure or a population's flexibility and recovery after such a disaster. The eruption itself can determine whether a population will be able to recover or collapse. Throughout this paper there will be an

explanation of the different types of eruptions that volcanoes are capable of as well as the material that is expelled from or near the volcanoes. The human response to the eruption and hazards will then be examined from multiple areas concerning different types of volcanoes.

Redefining polygons of the High Peaks region of New York

Katherine Dvorak, Geosciences

Mentor: Dr. Ann Deakin, Geosciences

The Bedrock map for New York State was compiled and edited by Yngvar W. Isachser and Donald W. Fisher in 1970 taking data that had been collected over years of surveying. After its compilation other areas were surveyed in large scale detail and published. The material available for public use on ESRI ArcMap is based upon the 1970 map. This study was done to reconfigure the 1970 based digital map available from the New York State Museum and incorporate the larger scale map of the Au Sable area of the High Peaks region.

Three Dimensional Structure of a Tri-Thymine DNA Hairpin Loop, s(GCGCTTTGCGC)]

Daniel Dyrka, Chemistry

Mentor: Dr. Matthew Fountain, Chemistry

Recent studies have shown that europium could be used as a potential probe to determine metal binding sites in nucleic acids. Although europium and magnesium have slightly different chemical properties, it is believed that they both to bind to nucleic acids in a similar fashion. One benefit of using europium as a probe is that, unlike magnesium, europium is spectroscopically active. Since europium is a paramagnetic ion, pseudocontact shift analysis can be performed in nuclear magnetic resonance (NMR) experiments to determine binding site interactions. The DNA molecule studied in this experiment was a 11 nucleotide tri-thymine DNA hairpin loop, [s(GCGCTTTGCGC)]. Two-dimensional NMR (NOESY, TOCSY, and DQF-COSY) experiments were performed on the unbound DNA hairpin loop to generate the molecular distance restraints. The restraints were entered into a molecular refinement program to determine the three dimensional structure of the unbound DNA hairpin loop.

A Retrospective Analysis of The National Sports Academy

Ian Evans, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of the abstract page under Psychology

Council for Exceptional Children National Conference

Daniel Figliole, Jessica Santa, Language, Learning, and Leadership

Mentor: Dr. Kathleen Magiera, Language, Learning, and Leadership

We will have a poster presentation of materials and photos of the different workshops that we attended while at the CEC national conference. We will have examples of teaching tools and resources for teachers.

Using a book club to increase reading scores at a federal correctional facility

Joseph Fisher, Psychology

Mentor: Dr. Dani McKinney, Psychology

This study involved inmate students from MCI McKean Federal Institution. Students were given the ability to choose books as a group from a list of books, which were provided. The students were instructed to read the books and to come to class with responses based on the characters, plots, and themes, which were portrayed within each book. The students were expected to develop greater reading and writing skills through completing the books and writing assignments. After a one-month period the student's ability to comprehend the reading and writing tasks was assessed. In addition, students in the book club completed questionnaires about their interest in the books, the writing assignments, and how well they liked the concept of the book club as a whole.

Is This a Date or Not? Lesbian Expectations of Dating Relationships

Rachel Foltz, Psychology

Mentor: Dr. Jennifer Dyck, Psychology

Current script theories in lesbian dating are the friendship script, the romantic script, and the sexually explicit script. In the friendship script, two women begin a relationship as friends, in the romantic script a dating relationship quickly escalates to romantic involvement, and in the sexually explicit script there is an initial physical attraction and the focus is on sexual activity rather than a relationship. Demographics and dating expectations were collected via on-line and paper surveys. Sample questions included "How old were you when you first started dating women?" and "What were your expectations for this first date?" Results supported the friendship and romantic scripts when establishing a dating relationship. Little support was found for the sexually-explicit script. Answers may indicate that lesbians prefer a longer courtship. This information contradicts stereotypes of a rapid progression from friendship to dating to couple status, and may help redefine societal perceptions of lesbian relationships.

Interest In and Use of Podcasts in Classes of Various Disciplines

Nicholas Hellmer, Psychology

Mentor: Dr. Dani McKinney, Psychology

Increasingly college campuses are incorporating iTunes U into their media presence on the web. Many college professors are exploring using this new medium to get repeats of lectures out to students, or are using it to offer completely new material as a supplement to material presented in class. Some professors are worried this will decrease attendance, and perhaps lessen the impact of the classroom experience. This study examines student perceptions of the usefulness of podcasts in their classes and their own perceptions of how it will impact their classroom attendance.

A Retrospective Analysis of Olympia Sports

Chip Francoforte, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of the abstract page under Psychology

Factors Predicting Second Grade Children's Decoding Skills

Kong Gao, Psychology

Mentor: Dr. Andrea Zevenbergen, Psychology

This study investigated the relationship between second grade children's decoding skill, and child temperament and elements of parent-child shared book reading such as the proportion of informational vs. narrative text that they have read together. We predict that there will be a positive correlation between the proportion of informational text that the parent and the child have read together and the child's decoding skill. We also predict that child decoding skill will be positively correlated with parents' overall level of satisfaction in reading with the child and how often they read together. We also predict that there will be a positive correlation between the level of child persistence and decoding skill. Children were given the WRAT-4 reading subtest to assess their decoding skill and the parent was given the TABC-R to assess their child's temperament, as well as questionnaires regarding elements of shared book reading. The results will be discussed.

A Retrospective Analysis of Fredonia Men's Club Volleyball

Nick Gentile, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of the abstract page under Psychology

Does Proficiency Level Affect Classroom English Use

Sarah Georgian, Language, Learning and Leadership

Mentor: Dr. Barbara Mallette, Language, Learning, and Leadership

This paper presents the results of a quantitative research study examining K-5 general education teachers' perceptions of ELLs' use of English in various classroom activities including, but not limited to, asking and responding to questions, participating in classroom discussions/ presentations, and reading aloud.

These teachers were given a survey and requested to note the frequency with which ELLs participated in or avoided these and other classroom activities. Frequencies were tabulated and raw data was converted to ratio form, showing the percentage of students avoiding or participating in various activities per proficiency level. To that end, the presenter will summarize her research findings, draw conclusions and pedagogical implications for teachers of ELLs, and propose research-based strategies for helping ELLs succeed in activities that appear to pose difficulties. Finally, the connection between level of activity difficulty and language pedagogy will be addressed to help participants draw connections for their own classrooms.

Women as Merchants in Charleston, SC

Shannon Gill, History

Mentor: Dr. Nancy Hagedorn, History

My research for the Capstone Seminar in Atlantic Port Cities will be focused of Charleston, South Carolina. I am interested in presenting this research in poster form for the OSCAR seminar as well. The social factor I have chosen to further research is women. I want to gain a further understanding of the effect the women of Charleston, South Carolina had on the economic and political life. I would most like to focus on woman and the role they played throughout this city during the 18th and 19th centuries. I may take into account slave women, free colored women, or white women, or any combination thereof.

Most of the sources I have located thus far directly deal with women as merchants. I am interested to further research the roles they played in the economy. Topics thereof may include further researching what they were making and selling. It will also be interesting to examine who they were trading with within the city. Most importantly, as the minority gender, it will be interesting to see if there were any limitations and regulations placed on what the women could sell or who they could sell with, etc. I will also analyze and discuss whether or not these women were treated differently than their male counterparts. And if there was not a difference in treatment, were the women merchants reliant on men?

Politically, I am interested in the laws that were in place at the time that further positioned women as inferior. I am curious to know if there were laws that promoted their businesses as separate from the men, or laws that belittled women in business and promoted the isolation and success of only male proprietors.

Yield Rates and Capital Budgeting

Melissa Gorzynski, Mathematical Sciences

Mentor: Dr. Lan Cheng, Mathematical Sciences

Yield rates are frequently used as an index to measure how favorable or unfavorable a particular investment may be. I studied yield rates and used it to make financial decisions with five capital budgeting techniques: yield rate method, net present value method, profitability index, payback period, and modified internal rate of return. I applied these techniques to different bonds and found out the ones that met investor's needs. I also used these techniques to help customers choose a payment option when purchasing a car.

NFL Fan Attribution Patterns

Jared Gould, Daniel Schantz, Psychology

Mentor: Dr. Bruce Klonsky, Psychology

The current research evaluates identification and attribution patterns of fans following their teams wins and losses. The researcher's recorded post game radio broadcasts that allow fans to speak about the game. With these recordings, we evaluate the reason(s) the caller gives for the win or loss of that team. We hypothesize that NFL fans will attribute wins to internal factors, and attribute losses to external factors. Results will be presented at time of conference.

Preschoolers Categorize Animate Objects Better in the Presence of a Dog

Jared Gould, Ashley Wagner, Psychology

Mentor: Dr. Nancy Gee, Psychology

Participants in the current study included seventeen preschool children, both typical and identified. The children were asked to categorize animate and inanimate pictures into three environments (Farm, Ocean, and Circus) (Circus was used as a distracter task) in each of three conditions (Real Dog, Stuffed Dog, and Human). The results revealed a main effect of animation in which the children categorized animate exemplars significantly more accurate than inanimate exemplars. The animation variable interacted with condition, in which animate exemplars were significantly more accurate than inanimate exemplars.

Effect of therapy dog on memory task performance

Jennifer Grabski, Jonell Belcher, Psychology

Mentor: Dr. Nancy Gee, Psychology

This experiment examines the effect that the presence of a therapy dog has on preschool children's performance of a memory task. This experiment represents an extension of previous research which focused specifically on number of instructions that children require to complete a simple memory tasks. The performance data revealed a ceiling effect, indicating that the task was too easy for the children. The current experiment manipulates the number of distracters (1 versus 4) presented to the child at test in order to examine the impact of an increase in task complexity. The independent variable is whether the co-participant is a real dog, a stuffed dog, or a human. The dependent variables are accuracy and number of instructional prompts (task specific and general) given to the child to complete the task. Data collection is currently taking place and results have not yet been obtained.

Forgiveness as a Function of Mood and Transgression

Leanna Greenberg, Psychology

Mentor: Dr. Jack Croxton, Psychology

The goal of this research was to investigate the impact of mood and level of transgression on people's willingness to forgive. Previous research has found that mood can affect various social behaviors such as altruism and aggression. We hoped to determine whether mood might also influence reactions to a transgression. We also manipulated whether the transgression was significant or relatively minor. Data was obtained from both American and Russian students. Among Americans, the effect of mood was minimal but responses differed significantly depending on the nature of the transgression. Subjects were more affected by the extent of the transgression when they were in a happy mood than when they were not. The data from Russia will be presented and the overall implications of our results will be discussed at the Exposition.

A Review of Self-Expansion Through Interpersonal Closeness

Leanna Greenberg, Rachel McMahan, Psychology

Mentor: Dr. Jack Croxton, Psychology

There has been a significant breadth of interesting research concerning the notions of attachment and interpersonal closeness as factors for self-expansion. Self-expansion is the increase of self-esteem and self-efficacy within a person due to a notion of increase in resources, characteristics, or perspectives. These three sources of increased self-expansion are rapidly increasing during times of establishment of a close interpersonal relationship. This accounts for the idea of "the honeymoon period" in romantic relationships, which are the highest source of self-expansion. After a certain period of time, self-expansion levels off within these relationships accounting for the myth about relationships that the "magic" has fizzled out. Studies have shown that engaging in self-expanding

activities with one's significant other can help "re-spark" feelings of intimacy and engagement by increasing self-expansion in both individuals, while each is associating these feelings with their significant other. More information on research, a closeness inventory invented based on this theory, and possible future implications will be presented at the Expo.

Trident Presentation & Reading

Alexander Gripe, English

Mentor: Mr. Dustin Parsons, English

Our proposal includes two separate parts: A display area for the recently published version of The Trident: a student-run and student-populated magazine published by the ENGL 261: Intro to Literary Publishing class. The display will include a historical look at the magazine as well as free copies of this year's copy of the magazine.

The second event is a reading from the work included in the recently published magazine from the contributing authors. The reading should last 40-45 minutes.

Atmotag.com

Nicholas Gunner, Environmental Science

Mentor: Dr. Sherri Mason, Environmental Science

Atmotag.com is a social networking experiment that allows weather enthusiasts and everyday people to contribute to user generated weather maps, forums, and what we are calling "wiki-forecasts". By collecting data from everyday people it is believed that hyper precise weather information can be compiled. The site is also intended to educate people about environmental issues and how they play into the weather/climate. The development site is up and running and the official release and promotion will happen in mid March.

Variable Myths and Misconceptions; A Study of Students Misconceptions of Variables

Constance Hadley, Mathematical Sciences

Mentor: Dr. Keary Howard, Mathematical Sciences

This study was designed to identify 8th grade mathematics students' misconceptions when asked to simplify algebraic expressions. It is hypothesized that 8th grade students, when asked to simplify algebraic expressions (with variables), will exhibit the greatest difficulty in problems that require: a) multiple step simplification and b) the distribution of the negative sign.

Students will be given have been given an assessment as a review for the 2010 New York State 8th Grade Mathematics Assessment. Each student's work has an error analysis performed to identify specific misconceptions, and to recognize if error is due to multiple steps rather than understanding. The anticipated categories for error were distributing operations and terms, combining like terms, and order of operations. However there were unanticipated errors, creating an even more interesting study.

Required Parenting Education in Secondary Schools: An Investigation of Current National Statistics and Reasons to Mandate It

Brian Hall, Psychology

Mentor: Dr. Andrea Zevenbergen, Psychology

Studies have clearly shown that the education of secondary school students in subjects such as health has led to increases in knowledge about topics like human sexuality, potential consequences of substance abuse, and hygiene. Though health education is generally viewed to be of vital importance during adolescence, many times parenting education, as a component of health education, is not given very much weight. A study conducted in 2005 found that only 10 states in the United States required parenting education for graduation from high school (Singer & Zevenbergen, 2005). This study will look at that statistic for 2010, and relate it to reasons why parenting education is an important aspect of secondary school education and should, in fact, be mandatory.

Cues of Fighting Ability in the Aggressive Songs of House Crickets

Kristina Halliman, Biology

Mentor: Dr. William Brown, Biology

Male house crickets (*Acheta domesticus*) engage in aggressive contests over resources and produce aggressive songs. Previous studies have found these songs contain information indicative of male fighting ability and size. More recent evidence expands on these findings, suggesting that the presence or absence of calling affects a male's winning ability and that males respond differentially to different call strengths.

This evokes the question, do males respond differentially to variations of a song characteristic? If so, to which characteristics do males respond with the greatest intensity? It is hypothesized that the level of aggression and frequency of bouts will decrease with perception of a stronger rival male.

Although data are still be collected and analyzed, the initial analyses suggest that the call parameters of chirp interval and pulses per chirp do not affect fight structure. There is the suggestion that pulse duration is important, especially when males are similar in size.

Necessity: Prostitution in Charleston, SC and Seville, Spain

Charles Hayward Jr, History

Mentor: Dr. Nancy Hagedorn, History

The port cities of Charleston, South Carolina and Seville, Spain had many things in common as was often the case in those areas classified as "port cities". However, the role and prevalence of prostitution in these two cities varies greatly for a number of social, political, and economic reasons. By examining these differences it is possible to discover why prostitution in Seville was so much more important than in Charleston.

Environmental Health

Brittany Heatherington, Pasquale Leone, Public Health

Mentor: Dr. Linda Dorsten, Sociology

The field of Public Health offers a wide range of jobs and responsibilities. By shadowing Chautauqua County Environmental Health Department we were able to take an inside look at one of the many branches dealing with the Public Health field. As Biology majors and Public Health minors we were able to apply our skills and knowledge to further expand our understanding of the field through hands on environmental testing.

With the use of technologically advanced equipment, ethical standards and codes of conduct, we had the ability to use our keen observation skills to exam a wide range of possible environmental threats. Our testing and inspections included everything from restaurant food, water and soil contaminates, as well as addressing threats domestic and wild animals may pose. Taking on low-level responsibilities under direct supervision we were able to learn by carrying out specific testing procedures.

The opportunity of shadowing an environmental worker has allowed us to gain a better understanding of some of the jobs and responsibilities associated with the branch of Environmental Public Health. Through the duration of our shadowing of the Chautauqua County Environmental Department we have both become aware of the importance in maintaining high levels of environmental safety.

The African American Experience in Chautauqua County: An Underground Experience

Amine Hechehouche, Krissie Herman, Zakary Woodruff, History

Mentor: Dr. Emily Straus, History

As part of the Senior History Capstone 495: Urban History at the Local Level, Students Amine Hechehouche, Zakary Woodruff, and Krissie Herman are going to look at the African American working experience in Dunkirk and Jamestown, NY.

We have found that there is very little written textbook history about the African Americans in the town, our research is taking us to look deeper within archives, journals, personal stories and narratives to start a process that will hopefully continue for future Fredonian historians.

A Retrospective Analysis of Fredonia Place

Jessica Henry, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of the abstract page under Psychology

There Once Was a Baby

Michael Hernandez, Visual Arts and New Media

Mentor: Ms. Jill Johnston-Price, Visual Arts and New Media

This project was done for my Intro to animation class held this past fall, and it is a recreation of there was an old lady who swallowed a spider. The project uses stop motion animation with cut out illustrations to give a new perspective on how the book influences children. Instead of having the books intended meaning of memory retention, I twisted the plot and characters to give a type of dark dream sequence of a child devouring his playful animal friends. over all I believe that this is a very interesting piece that makes the viewers question some of their childhood stories that they had enjoyed in their younger years.

Art in Puerto Rico

Elizabeth Hitchcock, International Studies

Mentor: Dr. Vivian Garcia

While studying in Puerto Rico I observed several artistic features. These attributes inspired me to learn more about the art culture in this area and how it compares and differs from the art in the northern United States. I am proposing to do my Oscars on art in Puerto Rico were I will present examples and indicate how art is illustrated in everyday life.

The O.A.S.; the Almost In Fame OAS

Lorena Holguin Gomez, International Studies

Mentor: Dr. Ivani Vassoler, Political Science

This paper investigates to what extent the OAS is achieving the goals outlined in its foundational documents. Created in 1948, the OAS is the most prominent intergovernmental organization of the Americas, with a membership that includes all countries of the continent, with the exception of Cuba. Since its inception, the OAS has held innumerable ministerial meetings and produced a series of documents focusing on relevant issues, among them, hemispheric security, democracy and promotion of human rights. But, what has in fact been accomplished? As with any international organization, the OAS, in principle, is a tool for cooperation among nations; yet, it has been sometimes a source of conflict. Why? Is the presence of the United States, the world superpower, a support or an obstacle to the OAS efforts to promote hemispheric cooperation? What is the real impact of the OAS on the solution of problems that in one way or another affect countries in North, Central and South America? What would the world look like without it?

Philadelphia's Yellow Fever Epidemic of 1793

Christopher Holmes, History

Mentor: Dr. Nancy Hagedorn, History

In 1793 French refugees were forced to flee Santo Domingo, and many of them arrived at Philadelphia. Unfortunately for the citizens of the city, the refugees brought with them a pool of those infected with "Yellow Jack." Philadelphia, being one of the muggiest coastal cities, was a breeding ground for mosquitoes, which got a hold of the infected refugees and spread the disease. Philadelphia was like any other Atlantic port cities, where sailors interacted with servicemen, and shaped the function and structure of the city. The Yellow Fever epidemic forced the vacating of the city and tolls on the number dead, undoubtedly changing how the port city functioned – its layout, its trades, its services, its overall economy.

A Retrospective Analysis of The Rochester Rhinos

Chris Huber, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of the abstract page under Psychology

Issue Tracking with Sharepoint 2007

Greg Jackson, Computer and Information Sciences

Mentor: Dr. Ziya Arnavut, Computer and Information Sciences

I used Sharepoint 2007 to design an issue tracking list for Cliffstar Corporation located in Dunkirk NY. It was a great experience for me and a great program for Cliffstar. They are planning to launch it to the IT department May 1st and eventually company wide! Sharepoint has many features available and I would like to present this one feature and how customizable it is. There is a designer that I used that works directly with it called Sharepoint Designer 2007. This is where most of my work was done. It's a coding/drag and drop user interface. I did a lot with both but I felt more comfortable most of the time using the code side. I don't think many people know about sharepoint, so I would like to present my project and show how powerful it is. I would say that the most powerful part is that it runs multiple jobs in the background (workflows) every time anything is created or modified. This is a lot of work if 25-50 items are created daily.

Festivities around the Christmas Season

Shannon Jantzi, Modern Languages

Mentor: Dr. Carmen Rivera, Modern Languages

I am proposing to display the information I have gathered while studying abroad in Puerto Rico. While I was there, I was very interested in the holidays surrounding the Christmas season. I spent a lot of time comparing and contrasting the traditions to how we celebrate in the United States. I will be displaying my information with the use of a tri-fold poster board. I have done research on the holidays outside of Puerto Rico as well. I look forward to taking the information I have learned and sharing it with others that see my presentation that day.

Race, Religion, and the Atlantic

Brittany Jimerson, History

Mentor: Dr. Nancy Hagedorn, History

A dynamic of any culture is the way it interacts with peoples from varying religions and races. I wish to explore these dynamics within the context of the Atlantic and its differing Port Cities. I will start with an in-depth look at Boston as a port city and its interaction with other races and religions. I will also look at Charleston, South Carolina in the same manner. I wanted to be able to compare a Northern state to a Southern state which is why I decided on Boston and Charleston. I will also be comparing American race relations with Amsterdam and Genoa's race relations.

The Complexity of Complex Fractions

Hallie Johns, Mathematical Sciences

Mentor: Dr. Keary Howard, Mathematical Sciences

This study examines the errors students commonly make while working with fraction and complex fractions. It is hypothesized that students are more likely to make mistakes when evaluating an expression that involves a fraction than when evaluating an expression involving only integers. Also, students are more likely to make mistakes when completing a problem that involves complex fraction in comparison to solving problems involving simple fractions with or without the use of calculators.

A Literature Unit Surrounding Speak

Jessica Kalny, English

Mentor: Dr. Jeannette McVicker, English

This is a three-week literature unit that is centered on Laurie Halse Anderson's novel *Speak*. During this time, students will not only read the novel and answer discussion questions, but they will go beyond this one text. They will analyze, interpret, and annotate, Dickinson's "I am Nobody" and Angelou's "Still I Rise" as well as compare these poems and the situations faced by the narrator to the novel's narrator. They will discuss the issue of date-rape as it relates to their lives. Students will discuss the text from different perspectives within literature circles. Students will help create the online study guide to coincide with the unit so that they may have access to the guide at any time. Students will discuss the literary elements that are present within the novel and discuss each element's importance to the improvement of the novel. Students will write a midpoint essay with a chosen topic of conflicts within the novel or research of an area of interest within the novel. Students will complete a final essay which deals with the themes, symbols, and motifs present in the novel.

A Retrospective Analysis of Basil's Restaurant

Doug Keller, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of the abstract page under Psychology

Youth Filmmaking in Turkey

Jesse Kerns, Megan Erbacher, Allyssa Kline, Kimberly Krenzer, Kristen McDonald, Anna Robins, Jon Simmons, Communication

Mentor: Dr. Ted Schwalbe, Communication

The seven students who participated in the U.S. State Department project dubbed "Youth Filmmaking in Turkey" will display their participation in the project as well as their experiences in Turkey. The presentation will include the videos created by the Fredonia students that were screened in Turkey, pictures and short explanations of their time spent in the three cities that were visited, and a slide show of the travel pictures taken by the students.

Swedish Immigration from Jamestown, New York

Kevin Kline, Will Reynolds, History

Mentor: Dr. Emily Straus, History

Our group project will demonstrate and inform individuals on the Swedes impact on the city of Jamestown, through social organizations and industry. These will include, but will not be limited to, orphanages, churches and other religious groups, Scandinavian organizations, and different industrial frameworks. Our goal is to better understand how the Swedes utilized their culture and backgrounds to either enhance or hinder the community and city of Jamestown through their specific organizations.

The Kinship Factor

Carolyn Klotzbach, History

Mentor: Dr. Nancy Hagedorn, History

My project and presentation will focus on kinship ties in Atlantic port cities, my case study being the Winthrop family. Between Britain, North America, and the West Indies, the Winthrops had ties and connection around numerous ports that helped the family grow into a powerful influence. My main question is how specifically the family benefited from the connections and how deep did the ties truly go. Although unique individuals, these kin members were tied together in a network that would always be the central, most important aspect in their life. Through the family journals and papers I will create a presentation that addresses these ideas, and ties the entire network together through primary evidence and visual material in hopes of showing how key kin was in the Atlantic system.

Causes of Stigmatized Behavior

Julie Knupfer, Psychology

Mentor: Dr. Guy Boysen, Psychology

Mental illnesses are often stigmatized, especially when they are perceived as controllable. However, research has shown that increasing belief in low-control, biological causes does always reduce stigma. Biological information may reduce blame but not reduce desire for social distance. To examine the effect of biological vs. free choice explanations of behaviors, college students (N=113) read one of two fabricated news articles depicting either an invasive sexual behavior or a noninvasive eating behavior, as well as an explanation of the behavior as either caused by biological reasons or free choice. Participants rated their blaming and social distancing attitudes about the behavior. The results indicated that both blame and social distancing were significantly higher when

participants believed the behaviors were caused by free choice rather than biology, and sexual behaviors led to more stigma than eating behaviors. The results suggest that both the behavior and its cause affect stigma.

National Council on Education for the Ceramic Arts (NCECA) Through a Student's Eyes

Susan Kornacki, Kim Brandl, Visual Arts and New Media and English

Mentor: Hide Sadohara, Visual Arts and New Media

In a visual presentation, we will illustrate the concepts and demonstrated skills we learned at the conference in Philadelphia through images of the ceramic and sculptural artwork we saw, photographs of our experiences, and text that explains the imagery and sums up the content of the lectures, demonstrations, and panels we attended. We will also showcase ceramic work that we have made that was inspired by content viewed at the conference.

Honesty or Deception? Is there an opportunity for deception in the aggressive call of the male house cricket (*Acheta domesticus*)?

Alex Ladowski, Andrea Solano, Biology

Mentor: Dr. William Brown, Biology

In evolutionary communication theory, deception occurs when the information in a signal causes a response that benefits the signaler and is disadvantageous to the receiver, but models of animal communication have shown that on average, communication systems must remain honest. However, occasional dishonest signaling may be part of an evolutionary stable signaling system. Crickets are well known for their acoustical communication systems. Much of the information that female crickets receive from potential mates and male crickets receive from rival males is obtained via song. The focus of my study will be on the aggressive song and behavior of the male house cricket (*Acheta domesticus*). In this study, I will address two questions. First, do males change their calls in response to the perceived competitive ability of their rival? I will examine this by recording and analyzing male response to synthetic "winner" and "loser" calls during contests over mating opportunities. Second, if males alter aggressive songs to better match rivals, does this indicate true escalation of the contests (a willingness to fight) or is it a deceptive bluff?

NCTE Conference: Professional Development Opportunity

Joseph Lantz, Julie Pannoni, English

Mentor: Dr. Anne Siegle Drege, English

The National Council of Teachers of English (NCTE) conference held in Philadelphia in November 2009 provided preservice English teachers from SUNY Fredonia an opportunity to interact with experienced English teachers from around the USA, to participate in seminars/lectures about teaching and new approaches to English Language Arts, to discuss topics affecting the future of English Education, to gather educational resources for their future classrooms, and to experience historic sites of Philadelphia; most notably the Edgar Allan Poe House. The preservice English teachers would like to share their experiences of attending the NCTE conference to encourage other students and current professionals to take full advantage of professional development opportunities that SUNY Fredonia offers.

Chautauqua County Home: Finding Links Between Sociology and Public Health

Shannon LaPoint, Public Health

Mentor: Dr. Linda Dorsten, Sociology

The purpose of my job shadow experience is to gain awareness of Public Health out in the community. Through the mind map I've created representing the ties and connections between Sociology and Public Health. While at the nursing home I was up in the Physical Therapy unit. Many of the individuals have had strokes, fractured bones, or had joint replacements. The Physical Therapists are working to rehabilitate them back to health.

Through this experience I have learned that there are many differences in actually being out in the field and learning in the classroom. It is very rewarding to see the progress the individuals have made through their therapies.

Innuendo and Denial effect on Implicit and Explicit Attitudes

Kathleen Larkin, Psychology

Mentor: Dr. Guy Boysen, Psychology

People are often forced to make denials that include saying they do "not" possess negative characteristics. However, denials have an innuendo effect; specifically, denials can lead to negative explicit attitudes about a person. We sought to demonstrate if innuendo and denials have a significant effect on implicit attitudes as well. Participants learned about a fictional character through a conditioning procedure using positive facts, negative facts, or denials of negative facts. Other participants simply read a short paragraph containing a denial of negative behavior made by a person who knows the fictional character (i.e., innuendo). Participants then self-reported their impression of the character (explicit attitude) and completed a subtle measure of bias against the character (implicit attitude). Results showed that conditioning using denials did not lead to an innuendo effect, but they suggested that denials coming from an individual who knew the character can negatively affect both explicit and implicit attitudes.

Freetown as a relocation for captured slave

Rebecca Lawrence, History

Mentor: Dr. Nancy Hagedorn, History

During the 1800's, Freetown Sierra Leone was used as a "dump site" for captured slaves on slave ships that were confiscated by the British Navy following the outlaw of the slave trade in the Atlantic. My research will be aimed at finding the underlying factors that decided why Freetown was the initial spot chosen to relocate the slaves, and why/how the city came into being?

Geoconservation on the Erie Lake Plain

Megan LeBarron, Geosciences

Mentor: Dr. Ann Deakin, Geosciences

Geoconservation is concerned with saving geologic features, particularly those that have potential to be mined. Although an established concept overseas, geoconservation is a relatively new concept in the United States. It's particularly appropriate for the Erie Lake Plain because of competing land uses in the form of vineyard agriculture and gravel mining. This study has analyzed a variety of spatial datasets, including digital orthoimagery, soil polygons from the National Resources Conservation Service, parcel data indicating land use from the Chautauqua County Industrial Development Agency, gravel mine locations from the New York State Department of Environmental Conservation and the Pennsylvania Department of Conservation and Natural Resources. GIS (Geographic Information Systems) was the primary analytical tool used to quantify the potential for loss of Pleistocene glacial gravel deposits due to mining. This study seeks to point out the value of conserving the local geology by maintaining vineyard agriculture in the area.

Beowulf

Brendon LePage, Visual Arts and New Media

Mentor: Ms. Jill Johnston-price, Visual Arts and New Media

Beowulf is a four part mini series depicting certain parts of the story of Beowulf. The setting of the work is futuristic mixed with certain aspects of the original time in which the story took place. It is a pen and ink medium on 4 separate pieces of illustration board. The reason for this choice was my enjoyment of both the medieval period with classic tales of chivalry and fighting beasts, and the futuristic theme with its new technology and design work.

Paradigms in Nature

Daniel Lewandowski, Joe Eckstrom, English

Mentor: Dr. Emily VanDette, English

For Dr. VanDette's Senior Seminar class, groups worked closely with libraries to make interventions in public domains of discourse. My partner (Joe Eckstrom) and I will be presenting on our critical interventions. We focused primarily on how humans interact with nature and their surroundings. Our work also moves to consider the current paradigm shifts regarding nature. In literary history, we've seen where the Romantics, Victorians, and Realists take nature, but where is this trend going?

Wii Fit as an Exercise Program

Daniel Longo, Sport Management

Mentor: Mr. Todd Backes, Sport Management

As my Senior Project, I have put together a study to find out if Wii Fit is an adequate workout program if somebody wishes to lose weight. I will be putting together all my results and displaying them on posters boards. The popularity of Wii Fit is astounding, so this study will give some insight if people are wasting their money or not.

Mathematics Lesson with Potential form Mathematics Teachers with Potential Lesson Plan Topic – Geometric Construction

Robert Longtin, Trevor Nelson, Robert Rappole, Mathematical Sciences

Mentor: Dr. Keary Howard, Mathematical Sciences

From fractions to calculus and plenty in between, plan to view highlights of award winning lesson plans in middle and secondary mathematics classrooms. Creativity and innovation are featured in these lessons presented by senior Fredonia student teachers. The lesson plans were selected for presentation at the Association of Mathematics Teachers of New York State (AMTNYS) state-wide conference in Buffalo, NY.

Chautauqua County Health Department

Alexandra Lugo, Public Health

Mentor: Dr. Linda Dorsten, Sociology

Working with Cathy Burgess, at the Chautauqua County Health Department, I will be experiencing a shadowing opportunity with public health workers within the Health Department. The Chautauqua County Health Department oversees many public services such as family planning services, immunization and STD clinics.

A Retrospective Analysis of Sigma Gamma Phi Sorority

Lauren Macleod, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of the abstract page under Psychology

Marketing for Awareness

Sara MacLeod, Megan Riley, Biology

Mentor: Dr. Linda Dorsten, Sociology

Public health is a public service field devoted to the maintenance and improvement of health on a macro scale. Public health focuses on aspects such as environmental cleanliness, emergency preparedness, preventative care and many more. There are many correlations between biological sciences and the field of public health, specially referring to health sciences. Knowledge provided from scientist such as lab technicians and health care providers such as physicians is used by public health workers when trying to make progression in their field.

As biology majors and public health minors our work reflects directly upon the relationship between the fields of public health and biological sciences. We have taken on a project with the Chautauqua County Health Department striving to market the altruistic services they provide to the public. We have focused specifically on their free birth control clinics they provide in Jamestown and Dunkirk. The objective of our project was to reach out to college students and others of that age group using media market techniques learned in class in order to make them aware of these services.

Stock Market

Douglas Malayny, Jacob Roncone, Business Administration

Mentor: Dr. Tai Yi, Business Administration

We plan to present our investments in the stock market with stock-trak. We have invested 500,000 dollars into a stock market and we will present our gains and losses as well as our investment strategy.

A Retrospective Analysis of Ellicottville Brewing Company

Erin Mansfield, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of the abstract page under Psychology

A Retrospective Analysis of Wegman's

Peter Martinez, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of the abstract page under Psychology

Tradition Through Religion

Megan Maxfield, History and Spanish

Mentor: Dr. Vivian Garcia

I will be talking about how through the history of Puerto Rico, the people and their culture are guided through religion and how it controls a large amount of society.

Delta Mu Delta Honor Society Biennial Conference

Mary Meyer, Faith Wester, Business Administration

Mentor: Dr. Nina Shah, Business Administration

The purpose of our exhibit is to summarize and present on the topics covered at the conference and what we took from the conference and experience.

Androgyny and the Self Portrait

Christopher McCleary, Visual Arts and New Media

Mentor: Mr. Stephen Komp, Visual Arts and New Media

This project is a series of androgynous self portraits created during the Fall 2009 semester in Intro to Photography with Stephen Komp. They mood of the images is dark, and the theme was gender neutral high fashion/glamour. I was inspired by the shock performance art of Marilyn Manson and Stefani Germanotta (Lady Gaga), as well as Robert Smith of The Cure. These photographs can be seen as a satire our sexualized media culture that pushes the boundaries of gender expression.

Social and Environmental Justice Issues Surrounding Mountain Top Removal Coal Mining

Joseph McGrath, Rachel Radicello, Katie Tyczynski, Jaclyn Hoffman, Lauren Piche, Amy Salsbury, Brian Bishop, Jeannette Chun, Andrew Craigie, Aimee Lindner, Adam Malchoff, Renee Solly, Alex Staunch, English and American Studies

Mentors: Dr. Christina Jarvis, English and Dr. Jonathan Titus, Biology

We received OSCAR Funds for 12 students to take a trip to southwest Virginia for Mountain Justice Spring Break. It's an action camp which teaches college students about the coal mining processes and history in Appalachia as well as the rampant abuse surrounding the industry. The camp also has a large civic engagement section in which students learn about nonviolent direct actions as well as other forms of political engagement. The issue of mountain top removal is something that our group feels very passionately about and would love to share our experience as well as the finer points of the issue with the rest of the campus. On the poster we plan to show the MTR process as well as the Carbon Capture and Sequestration process that many coal fired power plants are introducing. We will also be presenting on the social and environmental justice aspects of the practice of mountain top removal mining.

A Retrospective Analysis of The Registrar's Office

Rachel McMahon, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of the abstract page under Psychology

A Retrospective Analysis of Brooks Memorial Hospital Admissions Department

Chelsey Merrill, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of the abstract page under Psychology

Puerto Rican Military History

Jacob Michaels, Spanish

Mentor: Dr. Vivian Garcia

For my OSCAR presentation I will be presenting on Puerto Rican Military History, mainly dealing with the old Spanish Colonial forts of San Felipe del Morro and the Castillo de San Cristobal. These two fortifications are some of the oldest remaining of the old Spanish Empire. Their locations in relation to one another and on the island optimize protection of the original port settlement at San Juan. The defenses built into these fortifications reflect the contemporary elements of warfare at the time of their construction.

Not only will I be exploring the history of those two particular forts, but also the military importance of the geography of the island itself. Puerto Rico is the closest of the Greater Antilles in relation to Europe, making it the gateway to the Caribbean. Control of this island has been important in Caribbean history since the 16th Century.

Chautauqua County Home: Integrating Biology and Public Health

Clare Miller, Sociology

Mentor: Dr. Linda Dorsten, Sociology

I have created a mind map representing the connections in the community, work force and the whole of society between Biology (my major) and Public Health (my minor). My intentions in doing this job shadowing were to learn more about how the public health industry uses resources to better people's health and lives. I also wanted to create awareness on how the area of public health could be related so much to other fields.

While at the Chautauqua County Home, I was able to shadow employees and partake in activities that help support the mental health of the residences there and some of the disabled. I learned many different aspects of caring for a person and how to go about caring in different and unique ways, overall bettering their quality of life.

Through my experiences I have also learned just how much Biology and Public Health go hand and hand and how these two fields working together can really help bring a brighter future for many people.

Are Male Little Brown Bats, *Myotis lucifugus*, Biased When Choosing Females for Mating Based on Scent?

Katelyn Rose Miller, Biology

Mentor: Dr. Karry Kazial, Biology

Scientists know little about the mating ritual choices of Little Brown Bats. Do they choose certain females (sex, age, size, scent) over the others? We can begin to better understand the impact mating has on Little Brown bats.

We need to better understand the Little Brown Bats mating choices to replenish the population from impact of White Nose Fungus. Used a total of 13 (little brown) bats 5 male bats for each run and round 3 different female bat scents used for each run.

A Retrospective Analysis of The Fredonia Men's Basketball Team

Kyle Mitchell, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of the abstract page under Psychology

Commedia dell'Arte Practice and Performance

Ariel Mombrea, Kyle Blount, Cara Consilvio, Ian Cook, Rick Doetterl, Shawn Farrell, Charlotte Foster, Rachel Kodweis, Lauren Gismondi, Andrew Herr, Matthew Nersinger, Elizabeth Ruff, Emma Traubert, Michael Valvo, Theatre and Dance

Mentor: Mr. James Ivey, Theatre and Dance

This demonstration/performance will examine the various masks and techniques of the Italian improvisational theatre style known as commedia dell'arte. Commedia is often considered the beginning of the professional theatre in the western world. It has informed comedy familiar to us from Abbott and Costello to Loony Toons. This style continues to influence current actor training all over the world. The standard commedia characters such as Pantalone (old man), the Zanni; such as Arlecchino, Pedrolino, and Brighella (servants), Dottore (a charlatan), Flavio and Isabella (the lovers), and Capitano (a braggart warrior) will be demonstrated in performance by a group of students currently studying the form under Dr. James Ivey. The performance will examine the different techniques employed by the stock characters and a canovacci (prepared scene).

Mathematics Lesson with Potential form Mathematics Teachers with Potential Lesson Plan Topic – Polar Coordinates

Brian Moorish, Shane Hood, Rianne Steenhoff, Mathematical Sciences

Mentor: Dr. Keary Howard, Mathematical Sciences

From fractions to calculus and plenty in between, plan to view highlights of award winning lesson plans in middle and secondary mathematics classrooms. Creativity and innovation are featured in these lessons presented by senior Fredonia student teachers. The lesson plans were selected for presentation at the Association of Mathematics Teachers of New York State (AMTNYS) state-wide conference in Buffalo, NY.

Polish-American in Dunkirk

Daniel Morton, Andrews Glover, History

Mentor: Dr. Emily Straus, History

What were the factors that drew Poles to Dunkirk. Why did Poles establish numerous social clubs in Dunkirk but not Jamestown.

Cultural Interactions in Puerto Rico

Allison Nachman, Kristie Dunham, Foreign Languages

Mentor: Dr. Vivian Garcia

I propose to create an exhibit showing the information I learned on the topic of cultural differences and similarities that I found between a peer group in the United States compared to the same peer group in Puerto Rico. After participating in the SUNY Fredonia Study Abroad J-term program I was able to see how areas like politics, sports, music, free time, school, work, religion, holidays and travel differ and compare in the lives of the people from both countries. I learned what it means, according to some, to be "a real Puerto Rican" and how this relates to the general Americanization that they feel is affecting their culture. This is largely affected by common ideals, aspirations and memories of the past, present, and future of their island. I was interested in studying my own age group because I felt I would be able to compare certain cultural ideas to that peer group better than an older or younger one simply because that is the one to which I belong and I would have a good point of reference. Also, I am acquainted with a fellow student who lives and has grown up in Puerto Rico; it is from him and his friends that I drew many of my conclusions and research. The exhibit will display pictures as well as text describing my findings.

Minorities in Jamaica 1600-1850

Patrick Newell, Andrea Emerling, History

Mentor: Dr. Nancy Hagedorn, History

Panel will present on information pertaining to minorities in Jamaican port cities including Kingston, Spanish Town, and Port Royal between 1600-1850. Topics will include the political rights and legal status of port jews, the mercantile activities and restrictions regarding trade of port jews, and the social structure and interactions regarding free blacks.

Should We Teach SMS Jargon in Class?

Nicole Nichter, TESOL

Mentor: Dr. John Liontas, TESOL

Short Messaging Service (SMS) Jargon among students is on the rise in America. SMS can be a source of motivation for English language learners (ELLs) to acquire their second language through social interaction, however, little of it is grammatically correct.

The presenter covers the attitudes of students and teachers toward SMS jargon and the impact it has on English language acquisition. Pedagogical implications are presented and outcomes discussed.

Genetic Analysis of Fecal Bacteria from Lake Erie Beach Waters

Michael O'Hara, Pasquale Leone, Biology

Mentor: Dr. Ted lee, Biology

Lake Erie beaches have been frequently closed due to fecal pollution. Bacteria such as Escherichia coli are used as indicator organisms of fecal contamination of beach waters. Our study has been focused on identifying the sources of fecal bacteria in the beach waters. The project has been genetically characterizing E. coli strains collected from the lake and known fecal sources from gulls, goose, cows, deer, cats, dogs and humans for multiple years. Genomic DNA was isolated from all isolated E. coli samples and genetic finger prints were generated and analyzed using the amplified fragment length polymorphism technique. The data shows that E. coli in the beach waters and local tributaries do not appear fecal in origin and might be naturalized strains. This shows that E. coli is not a good indicator for fecal pollution. Recently, we have begun to look for the presence of bacteria from the Bacteroides genus as an indicator organism of fecal pollution since members of this genus are anaerobic, only found in warm blooded mammals, and are found in high concentrations in fecal matter. We have amplified DNA isolated from lake waters to look for the presence of Bacteroides in the samples. We are using primers specific to human Bacteroides strains to see if there is any indication of human fecal pollution in the beach waters. The preliminary results of these experiments will be presented at the conference.

8-bit ALU

Rocco Oliverio, Computer and Information Sciences

Mentor: Dr. Junaid Zubairi, Computer and Information Sciences

Our project entailed designing a combinational 8-Bit ALU that operates on a 3-bit opcode. Therefore with a 3-bit opcode, there are 8 possible operations. These operations included AND, OR, NOT A, XOR, ADD, SUBTRACT, SHIFT LEFT, and SHIFT RIGHT. A number will be loaded into an 8-bit input, A, and an 8-bit input, B, and then the opcode will be applied to the ALU. The ALU will then perform one of the operations above based on the opcode applied and the result of the operation will be loaded into an 8-bit output, Result, and then displayed.

US Foreign Policy and the Macedonian-Greek Name Dispute

Zhikica Pagovski, International Education

Mentor: Ms. Mary Sasso, International Education

This presentation will focus in the US support of the official name of the Republic of Macedonia in the name dispute with Greece. It will define the US role as negotiator in the process of resolution. It will also shortly present Obama's foreign policy approach towards South East European countries.

Hitler: A Monopoly over the Third Reich

Zhikica Pagovski, International Education

Mentor: Ms. Mary Sasso, International Education

Nowadays, most historians agree that Adolf Hitler was a charismatic leader, good public speaker, and fanatical visionary. However, the question of whether Hitler was a "Master of the Third Reich" or a "Weak Dictator" generates a debate among many of them. While Rich and Bracher try to prove that the National Socialism was Hitlerism, Mommsen argues that Hitler was just one simple figure in the whole Nazi triangle.

The correct positioning of Hitler's role in the Third Reich will enable people to understand who was responsible for the success of the Nazi movement in 1933, the expansion and the destruction of Nazi Germany, and the occurrence of the Holocaust.

This presentation will asses and locate Hitler's role in the domestic (the Nazi party, the state leadership, and the government), social, economic, military, foreign, and racial policy sectors in Nazi Germany.

RComparative Student Governance: Student Association SUNY Fredonia vs. Student Government American University in Bulgaria

Zhikica Pagovski, International Education

Mentor: Ms. Mary Sasso, International Education

The presentation will asses comparatively the main elements (Constitution, functioning, history) of student governance of the Student Association at SUNY Fredonia and the Student Government American University in Bulgaria. I will use my experience in Student Governance (2 years at the American University in Bulgaria and a semester here at Fredonia) to empirically support my arguments.

Study Abroad: The American University in Bulgaria- Feel the Magic of Bulgaria and Southeastern Europe

Zhikica Pagovski, International Education

Mentor: Ms. Mary Sasso, International Education

This presentation will promote the study abroad program in the American University in Bulgaria. There will be a short 7 min movie about the university and 4-5 Power point presentation about the type of education, the conditions, and the benefits of studying at Bulgaria.

A Retrospective Analysis of A High School Football Team

John Pape, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of the abstract page under Psychology

Differences in Psychological Strengths Between Social Classes

Samuel Planck, Psychology

Mentor: Dr. Jack Croxton, Psychology

Optimal human functioning is affected by an individual's psychological strengths, which includes skills, knowledge, values, motives, roles, and ideals. All of these factors are strongly influenced by the socialization of the individual into a social class. This literature review outlines social class as a psychological construct, identifies the psychological strengths of each social class, and examines how classism and class mobility affects the expression of social class-based psychological strengths.

Video Clips and Attitudes

Samuel Planck, Psychology

Mentor: Dr. Guy Boysen, Psychology

According to injunctification theory, terror management theory, and the psychoanalytic concept of defense mechanisms, messages which assert that a person lives in an inequitable society and/or contributes to this inequity elicits anger, anxiety, and derogation of the messenger. These dynamics help perpetuate social inequity because it is necessary to recognize a problem before it can be addressed.

According to B. Fredrickson, positive emotions undo negative emotions and broaden thought-action repertoires. This study will use positive emotion inductions to determine if positive emotion can mitigate the anxiety and anger caused by learning about racism and White privilege. If this occurs, it is hypothesized that this will lead to reduced derogation of the messenger and enhanced attitude change.

A short Course on Puerto Rico

Brian Pope, Spanish

Mentor: Dr. Vivian Garcia

When most of us travel for pleasure we tend to plan our trips around our interests. For those with an interest in history, Puerto Rico should be on your list for a future excursion. Puerto Rico is more than just an island in the Caribbean Sea teeming with the evening chirp of Coqui's; this tropical landing is as integral to Afro- Caribbean history as any other. In order to get the most out of a vacation to Puerto Rico one must attempt to invest some time in understanding this island's rich past. As an American observer of historical influences, I have compiled a respectable quantity of academic notes on Puerto Rico. My interest in teaching has led my proposal for this project: what would I teach about Puerto Rico if given an opportunity to compile a historical mini unit. The tri-fold I will have prepared for April 27 will accommodate the New York State Core Curriculum guide to accomplish the goal of this mini unit. I will use my recent study abroad experience at University of Puerto Rico at Rio Piedras to draw historical and cultural background.

A Taste of Puerto Rico

Mark Pringle, Hannah Bentley, Modern Languages

Mentor: Dr. Vivian Garcia

After researching the beautiful island of Puerto Rico, I have had the opportunity to experience many of the authentic flavors that represent the many different walks of life that have had influence on the 'Rich Port'. Many of the flavors and spices used reflect the immigration patterns that have occurred over the course of history. I hope you will join us in learning about the history and traditions regarding the many flavors of Boriquen cuisine! Prepare your taste buds for a journey you will not regret!

Historical Housing pattern and destruction of Urban Renewal: The Italians of Dunkirk and Jamestown

Ryan Quinn, Emily Carpenter, History
Mentor: Dr. Emily Straus, History

Our History 495 Capstone project will focus on the Italians of Dunkirk and James and the ethnic's groups immigration and housing patterns. The primary focus will be on urban renewal of the two specified areas and how it was detrimental to the stability of Italians.

Game Development And College-Level Curriculum with Direct X 10

Samuel Raghunath, Computer and Information Sciences
Mentor: Dr. Reneta Barneva, Computer and Information Sciences

Video games have fascinated the young and old alike for decades. Direct X, the software development kit of Microsoft has been the tool for professional developers for countless mainstream games. This poster describes to on-lookers the ways how their programming skills can be put to the test through Game Development. Innovative ideas involving sprite drawing, collision detection, and turn-based combat are explored through the fully functional 2D game "Spellweave". The observer will learn the design behind Direct X 10, such as Initialization, the 3D rendering pipeline and utilities such as DirectInput and DirectSound. All of this is incorporated to propose a future course in Game Development, along with example lessons and assignments.

Integration of Biology and Public Health

Jennifer Reese, Public Health
Mentor: Dr. Linda Dorsten, Sociology

The intention of my job shadowing experience was to get a better understanding of how public health is linked with Biology and the healthcare field, and also to experience what someone in a public health position does within the hospital. I gained these experiences and understandings at Brooks Memorial Hospital.

While at Brooks Memorial Hospital I shadowed an LPN who worked in Infection Control and Employee Health. For a community outreach program with the rural ministry I was able to recognize the community's biggest health problems. I was also able to work with the hospital on the Eat Well, Live Well program, National Healthcare Decisions Day, a take the stairs initiative, and also learning about the process of applying for and receiving a grant for the stairs program.

As a result of the experience, I have learned the community health problems and what it takes to initiate health programs for the hospital and the community. I was able to link the public health experience with my Biology major by realizing the type of personal healthcare, hygiene, and diet that's required to be a healthy person, along with the wellness testing conducted in the community outreach.

ILLUMINATION

Erich Reynard von Hasseln, Brandon Prinzi, Heather Personnett, Visual Arts and New Media
Mentor: Ms. Jill Johnston Price, Visual Arts and New Media

ILLUMINATION is a short stop-motion film project created for Jill Johnston-Price's 3D Animation class over the course of the Fall 2009 semester. It employs model animation techniques used by recent major films such as Fantastic Mr. Fox, Caroline, and James and the Giant Peach and combines several traditional, hand-crafted art mediums as well as digital film-making and animation techniques.

The film was created by three students in the Animation/Illustration department - Heather Personnett, Brandon Prinzi, and Erich von Hasseln.

Youth's Access to Health Information

Amada Richards, Public Health
Mentor: Dr. Linda Dorsten, Sociology

As an Exercise Science Major I was able to see what aspects of pertaining to a certain age or demographic group of individuals may be inhibiting and limiting when trying to give them access to certain health care systems. This shadowing experience at the Chautauqua County Department of Health has given insight on how teens and young adults access information about health concerns they have. I accomplished this goal by creating a survey that asks about access to pre-teen and young adults health care issues. Many young adults access online sources (such as twitter, MySpace and Facebook) to gain knowledge of health care.

By creating a survey that targets young adults and pre-teens the Chautauqua County Department of Health will be able to market their services via these outlet that these individual's are using to gain access to health care. This allows the Chautauqua County Department of Health to help out young adults and pre-teens to gain the health care they are seeking to better the health of the public.

The Effects of Innuendo on Impression Formation

Theresa Richir, Psychology
Mentor: Dr. Guy Boysen, Psychology

Previous research has established that people's self-reported judgments and attitudes about others can be affected by insinuations of impropriety (i.e., innuendo), and this study explored the more subtle effects innuendo has on attitudes. Participants' task was to form an impression of a fictional character, Bob, by watching a videotaped description that included positive and negative behaviors. Participants were randomly assigned to 1 of 3 conditions: negative, innuendo, or neutral. In the negative condition participants heard a statement that Bob had committed sexual assault. In the innuendo condition participants heard that Bob had not committed sexual assault. The neutral condition contained no information on sexual assault. Implicit attitudes were gathered using an IAT (Implicit Association Test) and explicit attitudes were collected by a semantic differential process. We hypothesized that subjects who participated in the innuendo condition would have a stronger negative implicit attitude than subjects who participated in the neutral condition.

Android Game Application

David Rizzo, Michael Ruggieri, Computer and Information Sciences
Mentor: Dr. Reneta Barneva, Computer and Information Sciences

We are developing a game for the Android operating system. This game will be available for certain mobile phones.

At the Chautauqua County Public Health Department: Learning How to Prepare a Community

Victoria Roberts, Public Health
Mentor: Dr. Linda Dorsten, Sociology

The intention of my job shadowing was to develop an emergency guide for victims of natural disaster within the county. The guide was to be a resource for victims to use in their time of need.

My time with the Public Health department, working on this emergency guide has enabled me to put my public health knowledge to use in order to better prepare and assist people affected by natural disaster. It also allowed me to use my major, Public Relations, in determining what was done in the past as far as an emergency guide, why it was ineffective, and the changes to be made to the guide in for it to be helpful.

The emergency guide will be a useful tool in the future for those in the county affected by natural disaster. It also showed me what it's like to work in the public health field. It was a very valuable experience.

British Cities: A comparative Look

Alexander Rogers, History
Mentor: Dr. Nancy Hagedorn, History

In this presentation I will be comparing the urban planning of the cities of New York and London during the colonial era to determine if New York was modeled after the home country or if the New World had an impact on New York. I will focus on the use of space and the design of the cities themselves to determine if this is true or not.

Chautauqua County Home

Haley Roe, Public Health
Mentor: Dr. Linda Dorsten, Sociology

My experience at the Chautauqua County Home has been an excellent learning experience. The Chautauqua County Home is an in care home for elderly people who are either there for rehabilitation or long-term care. I was in the activities department for residents in the long-term care.

Through my experience I learned what types of activities that take place for different units within the home, as well as how the safety for patients and employees is incorporated. As a Medical Technologist major, I was also able to learn about the health issues that may affect residents, which could then affect the employees.

The Chautauqua County Home is made up of many different departments that all work together for the same purpose, to help the residents remain healthy and active both physically and mentally.

Black Life in the Atlantic World

Kevin Rose, History
Mentor: Dr. Nancy Hagedorn, History

I will be researching the difference between the lives of black in Charleston, South Carolina and Kingston, Jamaica. The research will compose of how the lives of blacks compared and contrasts in the two different port cities. How did they interact among each other and what type of relationship did they have with the European whites and other ethnicities.

PUERTO RICO: Traditions, Beliefs and Legends of People

Linda Ruiz, Modern Languages
Mentor: Dr. Beth Huerta, Modern Languages

The first black Africans were brought to Central America during the colonial slave trade to meet the needs of domestic work and hard labor. After purchasing their freedom, the migration of blacks to Puerto Rico began to be permanent, and very valuable, as they have left traces of their race, work, and habits in the Latin American identity.

Native African tradition is evidenced in various aspects of Puerto Rican life: clothing which overflows with color and beauty, a language that is a living example of ethnic and cultural unity, varied and rich regional cuisine, wonderful contributions in the fields of sports and literature. These have been the architects by means of which the black population may feel rightfully proud of the positive contribution they made in the historical development of this region.

Puerto Ricans are predominantly Catholic. Their beliefs, rituals, and practices often stray outside the orthodox boundaries of Catholicism. Puerto Ricans do not generally differentiate between official Catholicism and their rituals and beliefs and give little credit to African and Latin American influence on their religion. In addition to the rich homage paid to saints, as is common throughout Latin America, parts of the island still host beliefs in the "evil eye", miracles made by saints, faith healing, and witchcraft. Catholic icons are common in Puerto Rican households, often intermingled with photographs of family members and clusters of ceramic and porcelain figures. Protestant sects—particularly the Pentecostal church—have converted a small portion of the population.

Puerto Rican culture is a series of visual manifestations and interactions with the environment that make both the region and its people different. There is a mixture of cultures and races. During the early 18th century, in order to populate the country Spaniards took native Taino Indian women as brides. Later on as labor was needed to maintain crops and build roads, African slaves were imported. This was followed by the importation of Chinese immigrants and immigration continued with the arrival of Italian, French, German, and even Lebanese people. American expatriates came to the island after 1898. Long after Spain had lost control of Puerto Rico, Spanish immigrants continued to arrive on the island. The most significant new immigrant population arrived in the 1960s, when thousands of Cubans fled from Fidel Castro's Communist state. The latest arrivals to Puerto Rico have come from the economically depressed Dominican Republic.

All of these racial mixtures have made Puerto Rico a population of varied beliefs, myths and legends that form the culture of this Caribbean region.

A Retrospective Analysis of Charlotte Russe

Catherine Salisbury-Ruf, Psychology
Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of abstract page under Psychology

Nineteenth Century Coopering

Matthew Sanbury, History
Mentor: Dr. Eileen Lyon, History

I plan on showing through pictures and artifacts the process of coopering during the nineteenth century in America. I will be using a poster board with pictures and titles as well as actual pieces.

Hist 495

Matthew Sanbury, History
Mentor: Dr. Nancy Hagedorn, History

I will be investigating the theory behind the collapse of Port Royal and the movement of its population to the nearby city of Kingston. The effects of this movement and the changes of the population during the mass movement.

Genetic Evidence Supporting Male Site Fidelity in Smallmouth Bass (*Micropterus dolomieu*) in Lake Erie

Nicholas Sard, Biology
Mentor: Dr. Ted Lee, Biology

Previous research suggests smallmouth bass in Lake Erie spawn within the lake itself and its tributaries. Despite behavioral evidence for male bass spawning in the same location each year researchers have not presented genetic evidence supporting these behavioral data. My research will compare genetic data from 219 bass from the lake in an effort to provide genetic evidence for this male behavior. I will compare maternally inherited mitochondrial genes to nuclear genes which are inherited in both sexes. Using these genetic markers I will test my hypothesis which is when males spawn in the same location each year and females disperse, divergence in the nuclear genome will be present and mitochondrial genome data will suggest little or no divergence. The results from my research will contribute to a more thorough understanding of the evolutionary mechanisms at work within the smallmouth bass population present in Lake Erie.

FUSITT Trip to USITT

Samantha Sayers, Theatre and Dance
Mentor: Mr. Steve Rees, Theatre and Dance

The technical theatre group FUSITT is going to the United States Institute of Theatre Technology conference. I am a freshman BFA Technical Theatre major and I would like to attend and then make a presentational poster to explain my experience. I feel that this is a great opportunity and would love to show others what USITT is all about.

Deontic Logic: A Study of Obligation and Duty

Eric Schwob, Brian Weltz, Philosophy

Mentor: Dr. Neil Feit, Philosophy

Deontic logic is an area of logic that is used to study and formally represent statements that make claims about obligatory and permissible actions. This is exciting due to its relationship with ethics and statements about morality. We wish to show the public that while this system of logic has some issues that it is more than workable. We have been examining a well known problem for deontic logic, Chisholm's paradox and have been attempting to reconcile it with new and innovative approaches. One of the exciting aspects of deontic logic is our ability to summarize what some normative ethical systems say into symbolization that we can then utilize to talk about their strengths and weaknesses.

A Retrospective Analysis of The Family Foundation School

Christopher Scott, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of the abstract page under Psychology

Problem Based Learning

Christopher Scott, Psychology

Mentor: Dr. Dani McKinney, Psychology

This study looks at students' (n=30) ability to solve a problem in a non-traditional setting. Students were taught information on the background of recidivism, parole, re-entry, and some of the problems that are associated with each of these aspects of criminal justice. They were given a task to design a re-entry program for ex-offenders in Chautauqua County. Students could use any resources they found to develop programming independent of help from the professor. The project was presented to community stakeholders in criminal justice. A peer review was completed to evaluate how the groups worked together, as well as a overall project evaluation. Results are discussed in light of research of problem based learning in a classroom setting.

Cryptography & Terrorism

Michael Seay, Computer and Information Sciences

Mentor: Dr. Anatole Ruslanov, Computer and Information Sciences

Cryptography and cryptographic software algorithms have been used by organized crime, including terrorists in recent years for their illegal activities. A "good" method of encryption can take years to break. The time taken to decrypt encoded messages leaves terrorists ahead of government agencies and computer scientists attempting to protect the public around the world. In this study, the authors assess the algorithms used by rogue elements, study how secure these algorithms are, how long they will remain secure, and if open source encryption software is in fact fueling terrorists with a means of communication.

A Retrospective Analysis of Wal-Mart

Caitlin Shea, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of abstract page under Psychology

El Yunque Rain Forest

Maria Siderakis, Spanish

Mentor: Dr. Vivian Garcia

Who knew that there was a tropical rain forest in the United States National Forest System? This beautiful tropical rain forest is located on the eastern side of the enchanting island of Puerto Rico. El Yunque is tropical paradise that is home to 240 different species of plants and animals unique to Puerto Rico. Come with me as we explore the history and all of the flora and fauna of the wondrous El Yunque Rain Forest.

A Retrospective Analysis of Fredonia State Women's Lacrosse

Amy Simon, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of the abstract page under Psychology

The Synthesis and Analysis of PCDEs

Scott Simpson, Rebecca Zimmerman, Chemistry

Mentor: Dr. Michael Milligan, Chemistry

Polychlorinated diphenyl ethers (PCDEs) are hazardous compounds that are known pollutants in the environment. PCDEs have been found in several environmental samples that include fish tissue, sediment, wildlife, and human tissue samples. PCDEs that are found in the environment have a few known sources: chlorophenol production, the chlorination of phenoxyacetic acids, and municipal waste incinerator emissions. PCDEs have also been suspected of being produced in the environment by reactions of humic acid with oxidizing agents (such as sodium hypochlorite).

Efforts towards identifying hazardous chemicals of concern, such as PCDEs, and perhaps new and emerging chemicals of concern may be facilitated by investigating the products from the reactions of humic acid and sodium hypochlorite.

Despite the growing concern of these pollutants, very few standards exist to quantify the amount of PCDEs in the environment. Several PCDEs have been synthesized, and characterized by GC/MS and GC/ECD. By comparing the retention times of the prepared PCDEs to PCDEs produced in a reaction between formic acid and bleach using GC/MS and GC/ECD, these new and emerging chemicals of concern can be identified and quantified in the environment. The goal of this experiment is to produce PCDE standards that will be compared to PCDEs produced in a reaction between formic acid and bleach using GC/MS and GC/ECD.

Math is Mean

Allison Spencer, Mathematical Sciences

Mentor: Dr. Joseph Straight, Mathematical Sciences

An ellipse can be defined as the locus of points in a plane with a fixed average distance from two fixed points (the foci for the ellipse). Here, the "average" used is the "arithmetic mean," which is the usual mean people use to average two numbers x and y : $(x + y)/2$. We explore what happens when different means are used, for example, the geometric mean of x and y is the square root of x times y . We also explore what happens when there are more than two foci.

Effects of Differing Hydrology and Substrate on Germination of Woody Plants in a Swamp Environment

Alexander Staunch, Johnathan Sleeper, Biology

Mentor: Dr. Jonathan Titus, Biology

An experiment was carried out to determine the effect of moss and soil substrates on seed germination of three common swamp tree species under varying moisture conditions. Greenhouse experiments were conducted involving Freeman's maple, American elm, and green ash. Three hydrologic conditions of wet, moist and dry were coupled with three substrate treatments of the mosses *Hypnum imponens* and *Thuidium delicatulum* and soil. Germination was significantly higher under wetter conditions than drier. Overall germination was higher on soil than on moss for ash and elm. The results illustrated that moss increases germination in wet environments and decreases germination in drier environments. This appeared to be due to increased drainage and uplift of seeds above the water. Germination suppression by moss in dry environments is perhaps due to increased drainage and water competition. The three trees exhibited different regeneration niche spaces in relation to differing hydrologic conditions.

How Much is Enough? A Study of the Effect of Homework Length on Homework Completion and General Achievement in the High School Mathematics Classroom

Justin Steger, Mathematical Sciences

Mentor: Dr. Keary Howard, Mathematical Sciences

What is an optimal amount to have my students complete the assignment and achieve on the test. This research examines several effects of homework length, and how to maximize the effectiveness of homework. It is hypothesized that length of the homework has no real effect on the achievement of the student, as long as the key concepts are presented and practiced.

The experiment has been conducted over a period of eight weeks, which is forty school days. The experiment took place in a 9th grade pre-algebra course. These forty days will be split into five different periods, where each period is determined by a further reduction of homework length. So week 7 will have shorter homework than week 6.

The information collected will be used to in an attempt to determine an effective homework length that maximizes homework completion and test achievement. This is something that a lot of teachers would like to know. How much homework is enough?

OASIS BORDER TOWNS: Studying Ethnic Minority Communities in Western China

Chengcen Su, Sociology

Mentor: Dr. Linda Dorsten, Sociology

Oasis towns in western China are communities that encircle the Taklamakan Desert, the world's second largest "sand sea," in Xinjiang Uyghur Autonomous Region. The Taklamakan is considered one of the most dangerous, empty, inhospitable and yet beautiful places on earth. Because of the area's extreme environmental conditions and geographically remote location, it is the oasis communities that sustain the people, plants and animals. These oasis towns are populated by residents with historical and trade ties to bordering nations of Pakistan, Kazakhstan, Tajikistan and Afghanistan, among others, as well as by ethnic minority groups from other areas in China and Han Chinese majority.

We examine data from 1% Sample Population Survey Data in Xinjiang Uygur Autonomous Region in 2005 for 15 oasis border towns in Xinjiang Region. Descriptive data include migration patterns, kinship and marriage patterns, and occupational status, among others. These data provide comparative profiles for our ongoing research on ethnic minorities in China.

The Royal Navy, Shipbuilding, and Economics of Portsmouth England

Andrew Szuba, History

Mentor: Dr. Nancy Hagedorn, History

For my presentation, I will develop a poster that represents the Royal Navy, Shipbuilding, and Economics in Portsmouth England as part of a larger research topic for my HIST 495: Atlantic Port Cities capstone course. The overarching theme of this poster (and my research project in general) will be that the three topics are interconnected and largely representative of the development of Portsmouth, England as an urban center during the early eighteenth century. To articulate this presentation effectively, I will incorporate the use of primary and secondary sources that tie the three aspects of the navy, shipbuilding industry, and economy together under one larger theme of urban development.

A Retrospective Analysis of John G. Ryan Distributing

Mark Tarkett, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of the abstract page under Psychology

A Retrospective Analysis of SPX Lightnin Mixers

Julianna Taylor, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of the abstract page under Psychology

A Historical Examination Of The Relationship Between The Chautauqua County Vineyards And Latino Populations

Andrew Tod, Ryan Davis, History

Mentor: Dr. Emily Straus, History

We will examine the historical wine industry located within Chautauqua County and present the historic links of the survival of the vineyards and the Latino population in Chautauqua County. We will look at industry records, as well as census and population data to help our case. Additionally, we plan on consulting a variety of other sources to link the connection between the industry and populations.

Does Knowing Real-Life Mathematics Help? A Relationship between Comparison of Solution Strategies and Achievement in Isomorphic Word/Numeric Problems in 8th Grade Mathematics

Wesley Tubba, Mathematical Sciences

Mentor: Dr. Keary Howard, Mentor

Would the 8th graders successfully answer word problems or isomorphic numerical problems? This research focuses on using real-life applications in mathematics lessons to help students have a better understanding of mathematics use outside of the school. When giving students a typical math assessment, the problems range from numerical to real life word problem/ to puzzles and tricky questions. Ultimately, the focus of this study is to determine if the students will successfully solve isomorphic mathematics problems whether it is word problem or real life application or numerical problems.

Retrospective Analysis of First American Tobacco

Elizabeth Vail, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the bottom of the abstract page under Psychology

Animations by Matt vanLieshout

Matthew vanLieshout, Visual Arts and New Media

Mentor: Ms. Jill Johnston-Price Visual Arts and New Media

I would like to present two works of animation I have done recently at school. The first is a rotoscope animation done in Photoshop. The second is an animation done in aftereffects. I would like to talk about how these tools are key to becoming a successful animator and setting a personal of style.

The Independence of Exchange: Trade Relations between Philadelphia and Havana

Samantha Vaughn, History

Mentor: Dr. Nancy Hagedorn, History

The poster I would be presenting would be a visual display of my research paper for HIST 495: Atlantic Port Cities. My thesis runs along the lines of figuring out whether or not the trade between Philadelphia and Havana benefited the American port city enough to make them economically stable, giving them the ability to work toward independence.

Stock Trak Project

Eric Vohwinkel, Phil Fratelli, Business Administration

Mentor: Dr. Tai Yi, Business Administration

For financial investments, our class had to register on a online trading website for students. We incurred many of the basic ways of trading along with some complex topics. We dealt with stocks, options, futures, mutual funds, bonds etc...Some transaction types included buying, selling, shorting, covering, stop orders, limit orders, writing etc...My partner and I will explain our investment strategy and our profits/losses throughout this semester long project.

Sex trade in port cities

Courtney Ward, History

Mentor: Dr. Nancy Hagedorn, History

Prostitution was one of the leading industries for women and slaves in Atlantic port cities. This project will focus on NYC port and Spanish port cities. It will take an inside look at the feme covert and feme sole laws that hindered women from other areas of work.

Macbeth Video Project

Michael Wayman, English

Mentor: Dr. Jeannette McVicker, English

These lessons are meant to teach students the process of creating an adaptation. In these lessons Macbeth will be used as a text to guide our discussions and learning. Throughout the unit students will need to rethink certain scenes in the play and perform their own versions. It requires extensive discussion about the decision making process that will be require. As a culmination of the unit students will be grouped and tasked with creating their own adaptation of Macbeth as a video project. This will require that students know how to use video and audio editing software, which will also be dealt with in this unit. Upon completion of this unit the adaptations will be screened and a final discussion will take place addressing the issues faced while creating these adaptations.

Synthesis of Combretastatin

Lindsey Wittmeyer, Chemistry

Mentor: Dr. Mark Janik, Chemistry

Combretastatin A-4 is an anti-cancer drug that has shown effectiveness in clinical trials. By binding at the colchicine binding site of tubulin, it prevents mitotic cell division leading to cancer cell death. In order to obtain optimum biological activity, analogues of Combretastatin need to be synthesized. These analogs will help determine the drug-tubulin interaction potentially leading to more clinical useful drugs.

Molecular Structure of Oestrogen Receptor Protein

Lindsey Wittmeyer, Chemistry

Mentor: Dr. Matthew Fountain, Chemistry

A group of steroids known as Oestrogens are crucial hormones involved in the homeostasis, growth and development of tissues. A protein known as the oestrogen receptor is a transcription factor. It has a specific ligand binding domain within its structure to which the hormones bind. When binding occurs, multiple chemical signaling events take place by either activating or deactivating this transcription factor. Transcription of the necessary coded genes then occurs. Through methods of agonism and antagonism, the oestrogen receptor can be chemically tricked into either producing or inhibiting the need of estrogen in the body. Structural images of the oestrogen receptor's ligand binding domain were studied to determine how both the agonist 17 β -estradiol and the antagonist raloxifene altered the protein. Further understanding of this protein and binding abilities could potentially lead to treatment of oestrogen-related diseases.

A Retrospective Analysis of TJ Maxx

Clara Wright, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of the abstract page under Psychology

A Retrospective Analysis of Fredonia Men's Soccer

Brett Wysocki, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of the abstract page under Psychology

Model European Union

Kevin Wysocki, Brian Bishop, Edward Campbell, Andrea Dankert, Daniel Figliole, Richard Rogers, Chloe Tsernovitch, Political Science

Mentors: Dr. Alex Caviedes and Mr. Ray Rushboldt, Political Science

Members of Model European Union club participate in a simulation of the EU every year. This year the simulation was in Limerick, Ireland. We took on the roles as politicians in the EU and of representative countries and then argued on the behalf of our constituents. This simulation enhanced our ability to communicate with our colleagues, articulate our ideas, and research. The best part of the conference is meeting people from other countries and sharing our experiences with our peers at Fredonia.

Student Perceptions of Computer Science

Andrew Yolevich, Computer and Information Sciences

Mentor: Dr. Anatole Ruslanov, Computer and Information Sciences

A group of college students has been surveyed for their perception and knowledge of computer science. Ignorance of the field was observed. The data obtained suggest inadequate instruction and career counseling, particularly at the high school level. The survey results imply that high schools could do a better job educating the students about career opportunities in computer science fields.

A Retrospective Analysis of a Track and Field Team

Brian Zarley, Psychology

Mentor: Dr. Jack Croxton, Psychology

See abstract at the end of the abstract page under Psychology

Big Read in Brocton

Ashley Zengerski, Elizabeth Christopher, English

Mentor: Dr. Emily VanDette, English

I have worked with a partner to create Big Read programming for the Ahira Hall Memorial Library. We were responsible for everything from exhibits, events and advertising. We created a series of six events that included contra dancing and a community quilt building project. The other four events were readings and discussion of My Antonia. Our exhibit topics were the Life of Willa Cather and Cooking of the Prairie.

Psychology Abstract

Organizational Psychology: Retrospective Analysis Projects

Students in PSY 347, Organizational Psychology, were required to critically analyze an organization that they were previously a member of or one that they are currently affiliated with. First they provided an overview of the organization, followed by a description of their role within the organization. Then they analyzed it, using a set of concepts from the course. Finally, they provided a set of recommendations for improving the organization. Their presentations are taking place throughout the day and all begin with the title, "A Retrospective Analysis of..."