CELEBRATE CARROLL
THE UNIVERSITY’S ACADEMIC CONFERENCE
Co-sponsored by The University Scholars Center, Student Senate, and The Honor Society of Phi Kappa Phi

SENIOR ART EXHIBITION
POSTER SESSIONS
PRESENTATION SESSIONS
FACULTY PRESENTATIONS
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Dr. Douglas Hastad, President

Carroll University is a special place. We are blessed with many multi-talented students who keenly value their academic prowess. Celebrate Carroll is designed to showcase their splendid work. We are proud of their accomplishments and are delighted that you have taken time to participate in this event. Enjoy!

Dr. Joanne Passaro, Provost and Vice President for Academic Affairs

I am proud to welcome you to the eighth annual Celebrate Carroll conference, which showcases the scholarship of students, faculty and staff. This event embodies the excitement of Carroll's rich and engaging learning environment and deepens our commitment to the discovery of knowledge. We hope each of you will join us in celebrating the dedication of our outstanding faculty and staff and applauding the scholarly achievements of our undergraduate and graduate students.

Dr. Charles Byler, Dean, College of Humanities and Social Sciences

Congratulations to all participants in Celebrate Carroll 2012. Your presentations and performances remind us of what talented students we have at Carroll University. Celebrate Carroll is an opportunity for us to learn from one another and to recognize the creativity and hard work of members of the Carroll community.

Dr. Jane Hopp, Dean, College of Natural and Health Sciences and Business

The College of Natural Sciences, Health Sciences and Business students, faculty and administration extend a warm welcome to all as we Celebrate Carroll. We look forward to many spirited discussions and interchanges today that will lead to exciting new ideas, projects and partnerships tomorrow.

Dr. Theresa Barry, Dean of Students

Welcome and congratulations to all of the 2012 Celebrate Carroll participants. Thank you for your willingness to share your academic gifts with the Carroll Community. We are blessed to have students with talent such as yours. Thank you for your hard work and dedication.
The Pioneer Scholars Program has helped me learn more about an issue I care about – world poverty and its causes – while I gained experience in research and writing that will be useful for the rest of my academic career. I am more confident in my abilities and I appreciate the chance to gain insight into the topic itself, as well as the methodology of philosophy and the opportunity to work alongside my mentor.

Roxanne R Bluhm
Major: Music Liberal Arts
Hometown: Helenville, Wis.
Title: Billie Holiday and Her Legacy: A Genealogy of "Strange Fruit"

The Pioneer Scholars Program granted me the opportunity to go back to the genre I love most in music, the jazz genre. I was able to learn about jazz and Billie Holiday's impact under the guidance of my mentor, Dr. Kristina Boerger, which I would not have been able to do under the school's curriculum. I greatly enjoyed this undergraduate research program.

Kelly Fingland
Major: Photography
Hometown: Winnebago, Ill.
Title: What's for Lunch: A Photographic Conversation

The Pioneer Scholars Program benefits students by allowing freedom – with the supervision of an instructor – to research and delve deeper into a subject they have an interest in. Getting one-on-one time with an instructor at Carroll helps you learn more than any class ever could.

Jessica Gall
Major: History, Secondary Education Minor
Hometown: New Berlin, Wis.
Title: From Co-Eds to Feminists: Second Wave Feminism on Wisconsin College Campuses

The Pioneer Scholars Program gives students the opportunity to do an extensive research project at the undergraduate level. Undergraduates do not traditionally get these opportunities and it can help them decide whether or not they would like to go on to graduate school. The program also allows students to work one on one with a professor, which is a beneficial growing experience for both the students and the professors.

Taylor Kalmus
Major: Biology
Hometown: Kaukauna, Wis.
Title: Single Large or Several Small: the effect of meal size on gap-limited predators.

The Pioneer Scholars Program provided me my first opportunity to create and perform an experiment on my own. This opened my eyes to the demands and requirements of such research, some of which I did not expect. It also gave me the chance to work both in the lab with live animals as well as in the herpetology collection at the Milwaukee Public Museum.
Luke Miskov
Major: Biology with Pre-Med emphasis
Hometown: Hales Corners, Wis.
Title: In Utero and Lactational Exposure of Perinatal Sprague-Dawley Rats to Glycitein Disrupts Ovarian Follicle Maturation

The Pioneer Scholars Program was a great experience for me. It gave me valuable research and laboratory skills that I will be able to take with me as I continue my education and allowed me to establish a great relationship with my mentor, Dr. Baldridge. This experience will surely help me as I move forward in my education and be a highlight of my résumé.

Colton Pugh
Major: Biology
Hometown: Clintonville, Wis.
Title: Deletion of the G-Quartet Region in Neisseria gonorrhoeae to Conserve Piliation Phenotype

The Pioneer Scholars Program benefited me by giving me the opportunity to go and work in a laboratory setting and collaborate with Ph.Ds and graduate students working on their Ph.Ds in microbiology at UW-Madison. While at UW-Madison, I gained much insight in the field of microbiology research and what research is all about at a graduate level and at a premier research institution.

Brittany J. Reiland
Major: Nursing
Hometown: Hortonville, Wis.
Title: Assessment of maternal health-related indicators, barriers to care, and development of appropriate interventions in the Zacapa region of Guatemala.

The Pioneer Scholars Program has helped me in many ways on both a personal and academic level. Through this program, I was able to work side by side with a professor who was able to guide me and help me grow not only as a nursing student, but also as a researcher. This experience has helped me strengthen my knowledge base of another culture and will surely help me in all of my future endeavors in my career.

Kelly A. Scott
Major: History
Hometown: Hartford, Wis.
Title: Carving Out a Space for Freedom: Virginity and Widowhood in the Middle Ages.

Being a Pioneer Scholar has been very rewarding. It is great to work with a mentor who helps you and guides you toward a project that you would not have had the chance to do in the classroom. It also provides the opportunity for students to perform research on something of interest to the student. Also, the program is great because it is open to all types of research, and not just science-based research. Students who are liberal arts majors should definitely participate in the program because it demonstrates how well-rounded students are at Carroll University.

Joseph Zacharias
Major: Biology
Hometown: Green Bay, Wis.
Title: Economic and ecological trade-offs over six years of a long-term buckthorn removal experiment

I thoroughly enjoyed the Pioneer Scholars Program. It offered me an excellent experience to conduct research alongside a professor. Throughout my research, I have learned many different skills such as critical thinking and how to manipulate and design a project. I am certain that this program has helped me to better prepare for my future.
THE MISSION STATEMENT

We will provide a superior educational opportunity for our students, one grounded in the liberal arts tradition and focused on career preparation and lifelong learning.

We will demonstrate Christian values by our example.

We shall succeed in our mission when our graduates are prepared for careers of their choice and lives of fulfillment, service and accomplishment.

THE FOUR PILLARS

Carroll University’s educational philosophy is sustained by the four pillars of integrated knowledge, gateway experiences, lifelong skills and enduring values. These pillars undergird all that we do at Carroll. They support the Carroll experience and our vision for Carroll students to achieve a lifetime of potential.

**Integrated Knowledge** is the very foundation of a quality liberal arts program. The Carroll curriculum emphasizes breadth and depth of learning. Our purpose is to encourage students to recognize the interrelationships among ideas. We believe that students with this understanding will continue to learn, grow and succeed long after they leave the campus.

**Lifelong Skills** help students prepare for life and work in a world of rapid and constant change. We believe that graduates will continue to evolve and contribute to their communities long after they earn their degrees. To that end, our mission is to help students learn to think critically and creatively, adapt to changing technologies, work efficiently and effectively, collaborate with others, and communicate clear, compelling ideas.

**Enduring Values** help students to consider always the impact of their actions on the world around them. We believe that effective leaders draw their inspiration from strong personal value systems. Our goal, therefore, is to offer students multiple opportunities to make decisions and then to reflect upon their consequences.

**Gateway Experiences** occur both upon entering and upon leaving Carroll University. We believe that our educational responsibility extends beyond the classroom into every aspect of our students’ lives. That is why we place a special emphasis on preparing incoming students for college life and on helping graduates make successful transitions into their first jobs, or graduate and professional schools.
# Program at a Glance

## Highlighted Presentations

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## Celebrate Carroll Showcase

### Presentation Session I

- History
- Pioneer Scholars
- Politics and Global Studies

### Poster Session I

- Business
- International Education
- Physical Therapy
- Psychology

### Visual Arts Presentation Session I

- Senior Art Show
- Spare Time Art Show

### Presentation Session II

- Alliance
- History
- Pioneer Scholars
- Politics and Global Studies
- Theater

### Poster Session II

- Athletic Training
- Communication
- Psychology

### Visual Arts Presentation Session II

- Senior Art Show
- Spare Time Art Show
Presentation Session III  
Education  
Pioneer Scholars  
Politics and Global Studies

Post Session III  
Biology  
Communication  
Environmental Science  
Nursing  
Sociology

Visual Arts Presentation Session III  
Senior Art Show  
Spare Time Art Show

Presentation Session IV  
Business  
Pioneer Scholars  
Politics and Global Studies  
Psychology  
Sociology

Poster Session IV  
Chemistry  
Nursing  
Politics and Global Studies  
Sociology

Visual Arts Presentation Session IV  
Senior Art Show  
Spare Time Art Show

POST CELEBRATE CARROLL  
Education Presentations  
EDU 400 Research Seminar  
EDU 603 Research Colloquium

These presentations will feature the masters’ theses research of students enrolled in the Graduate Program through the Education Department. Student researchers will conduct roundtable presentations. Audience members will have the opportunity to attend sessions to hear the methods and results of multiple research projects.
ALLIANCE  Session II  Location: Main Hall

Oral Presentation

1:00 p.m.-2:10 p.m., Main Hall 201

Emily Groves, Shelby Wilhelm  Mentor: Karla Strand
Title: Building an Alliance: Increasing LGBTQA Inclusivity at Carroll
Abstract: After a brief introduction to Alliance, Carroll’s Lesbian, Gay, Bisexual, Transgender, Queer and Ally (LGBTQA) Learning Community, presenters will discuss building an LGBTQA-inclusive environment on campus. Presenters will offer practical suggestions of ways that students, faculty and staff can develop inclusivity on campus, as well as reasons why this environment is critical to cultural awareness on campus. LGBTQA terminology will be explained and resources for further exploration provided.

Marissa Haug  Title: Meniscus Tears  
Abstract: I will present on a meniscus tear found in a men's soccer athlete at the Naval Academy. Information will be given on the injury and goals of the athlete will be clearly stated. Also, I will include the rehabilitation program for the athlete.

Rebecca Mailand  Title: Case Study of an Acute Glenohumeral Shoulder Subluxation in a Division I Football Player

Megan Ulery  Title: Posterolateral Corner Repair in Division I Wrestler

ART  Sessions I, II, III, IV  Location: Rowe Art Gallery

12:00 p.m.-4:30 p.m.

Bridget Holtz, Emily Kundert, Jessica Martinez, Casey Scheuerell  Mentor: Susan Lewis
Title: Senior Art Majors Thesis Exhibition  
Abstract: The Senior Art Thesis Exhibition is the culmination of the capstone class. This exhibition will include a series of photographs and sculptures presented by senior art majors in Rowe Art Gallery and will be on display from April 22 through May 13.

BIOLOGY  Session III  Location: Stackner Ballroom, Campus Center

Poster Presentations

2:20 p.m.-3:20 p.m.

Hannah Able, Gretchen Syburg  Mentor: Susan Lewis
Title: Effective and Efficient Treatment for Upper Respiratory Tract Disease in Shelter Cats  
Abstract: Upper Respiratory Tract Disease (URTD) is a common respiratory infection in many felines that enter animal shelters. URTD is initially caused by a virus and usually results in a secondary bacterial infection. Clavamox, Doxycycline, Azithromycin and Amoxicillin are commonly used by shelters to treat the symptoms of the secondary bacterial infections that include nasal discharge, eye discharge, coughing and sneezing. Our research was conducted at the Humane Animal Welfare Society of Waukesha, Wis. Cats with URTD were randomly assigned a medication and shelter staff determined need for medication changes, euthanasia or movement to foster care or the adoption floor. Within our sample population, Doxycycline and Azithromycin were shown to be more effective treatments than Clavamox and Amoxicillin. A cost benefit analysis is presented.

Aimee Ambrose, Madeline Haven  Mentor: Cynthia Horst
Title: Genetic and Physical Characterization of Chlamydomonas reinhardtii Mutant Strain cmu1-1  
Abstract: Chlamydomonas mutant strain cmu1-1 was initially identified based on its unusual cell shape. Cells tend to be...
tear-drop shaped rather than ovoid like wild-type cells. Further investigation revealed the cell body microtubules in cmu1-1 are unorganized and frequently longer than those seen in wild-type cells, providing a possible explanation for the altered cell shape. Current studies show this change in microtubule organization also leads to changes in the distribution of organelles such as the pyrenoid. To determine pyrenoid position, the midplane of the cell was defined as the plane running from the base of the flagella at the anterior end of the cell to the cell’s posterior end, thus bisecting the cell. In 66 percent of wild-type cells, the pyrenoid is centered within 10 degrees either side of the midplane. In contrast, only 30 percent of cmu1-1 cells position the pyrenoid within 10 degrees either side of the midplane. cmu1-1 was created by insertion of mutagenesis to facilitate gene identification. The plasmid used was derived from pUC119 and contained nit1 and nar1 genes. Investigations into the identity of the defective gene in cmu1-1 revealed several rearrangements occurred during insertion. Consistent with the ability of cmu1-1 to reduce nitrate, almost all of nit1 was inserted. However, the 3′ UTR became attached to the 5′ regulatory region. All of nar1 was inserted except for part of the 3′ UTR. None of the pUC sequences were inserted. Investigations of the insertion site region reveal that two adjacent genes were knocked out by the insertion. Interestingly, both genes code for divergent cytoskeletal proteins. Current investigations are focused on using complementation to determine the relative contributions of the two knocked out genes.

**Abigail Happli, Elizabeth Smith**  
*Mentor: Susan Lewis*  
**Title:** Tracking Early Adolescent Behaviors in African Lion Cubs  
**Abstract:** Little research has been done regarding the development of behaviors in juvenile African lions in captivity with regards to time. The three African lion cubs at the Milwaukee County Zoo were observed to record changes in the frequency of active and non-active behavior, as well as what specific active behaviors and whether these behaviors were displayed with or without their mother. It was found that inactive behaviors that consisted of resting and sleeping increased over time, and time spent with their mother decreased as time went on as was expected.

**Ryan Hillmer, Joseph Meeuwen**  
*Mentors: Susan Lewis, Monika Baldridge*  
**Title:** The Hormone-Mediated Effects of Parasitism on Predator-Induced Aggregation in Amphipods  
**Abstract:** Environmental stimuli and hormonal changes can alter an organism’s behavior. The hormone-mediated effects of parasitism on predator-induced aggregation in amphipods were investigated using radioimmunoassay (RIA) analysis. Procedural methods included comparisons of serotonin concentrations between unparasitized and parasitized amphipods; and between unparasitized amphipods in control groups exposed to stickleback predators, and those exposed to recently deceased amphipods. We hypothesized that the hormone serotonin plays a role in amphipod aggregation, and that serotonin levels are impacted by acanthocephalan parasitism and the presence of predation cues. RIA analysis revealed that acanthocephalan parasitism of amphipods results in higher levels of serotonin (compared to uninfected amphipods). RIA results also reveal variations in serotonin levels of amphipods exposed to predation cues (i.e. stickleback fish and deceased conspecifics).

**David Koenig**  
*Mentor: Monika Baldridge*  
**Title:** The Effects of In Utero and Lactational Glycitein Exposure on Ovarian Follicle Development in Female Sprague-Dawley Rats  
**Abstract:** With the growing popularity of soy baby formulas and soy health foods, the consumption of phytoestrogens has increased. The most common class of phytoestrogens is the isoflavones (glycitein, daidzein, and genistein). By initiating cellular pathways, they create additional stimulus/suppression on the estrogen receptors, which can lead to abnormal development of ovarian follicles. In this study, we focus on the exposed mother’s (dam’s) female offspring to determine (1) if an in utero and lactational exposure to a low or high concentration of pure glycitein (L Gly, H Gly) exerts detrimental effects on ovarian follicle maturation; (2) if circulating estrogen concentrations are altered; and (3) if estrous cycles are modulated. The dams will be injected with LGly (0.5 mg/kg/day) and H Gly (5.0 mg/kg/day) for 42 days. After they are sacrificed on the 42nd day, their weaned female offspring will be kept to examine the recovery from an in utero and lactational exposure to glycitein. For 32 days, post puberty, the estrous cycle of the offspring will be recorded. Animals will be euthanized on postnatal day 115. During necropsy, ovaries will be excised, fixed, washed and prepped for histological analysis. Circulating estrogen concentrations in the serum samples will be determined by a radioimmunoassay. The data collected will elucidate the effects of an in utero and lactational glycitein exposure on the follicular development and hormone concentrations in female Sprague-Dawley rats.

**Steven Koprowski**  
*Mentors: Eric Thobaben, Jason Freund*  
**Title:** Effects of Riparian Zone Buckthorn Invasion on the Autochthonous Stream Input: A Methodological Analysis  
**Abstract:** The ferocity with which invasive species disturb the regular distribution of species in an ecosystem is unparalleled. Our primary focus is to analyze the presence of a stream-side invasive plant species (Rhamnus cathartica or common buckthorn) on the stream ecosystem. Since buckthorn produces enveloping canopy, increasing levels of shade could be affecting the growth of algae, the basis of the food chain in a stream. Here, we suggest a methodological schema for measuring the effects of buckthorn canopy on the growth of algae. The processes of weighing collected algal samples, extracting Chlorophyll components, and using visible spectrophotometry were all shown to effectively measure algae content and are described in detail.
Corey Lipperer  
*Mentor:* Eric Thobaben  
**Title:** Leaf Fall Composition in Genesee Creek, Waukesha, Wisconsin  
**Abstract:** Common buckthorn (*Rhamnus cathartica*) and glossy buckthorn (*Rhamnus frangula*) are invasive shrub species that can alter ecosystems by changing the chemical composition of the soil through the decomposition of their leaves. The impact of this trait on aquatic ecosystems is not yet understood. The purpose of this study was to determine what percentage of the leaf fall into Genesee Creek was buckthorn vs. native trees. At the Carroll University Greene Field Station, nets were hung over Genesee Creek to collect the leaf fall. Leaves were then sorted by species, dried and massed. Green ash constituted 67% of the leaf fall entering the stream compared to only 23% common buckthorn. More research still needs to be done on how leaf fall from buckthorn affects Genesee Creek.

Michael Wahoviak  
*Mentor:* Monika Baldridge  
**Title:** The Acute and Chronic Effects of Glycitein on the Reproductive Parameters of Male Sprague-Dawley Rats  
**Abstract:** Glycitein is a phyto-estrogen found in soy products that might have adverse effects on the reproductive system. This experiment studied the effects on the reproductive parameters in male Sprague-Dawley rats with in utero and lactational exposure to glycitein.

Shula Yang  
*Mentor:* Eric Thobaben  
**Title:** Quantifying the Amount of Rhamnus cathartica Leaf Litter to Native Species Found in the Streams  
**Abstract:** Common buckthorn (*Rhamnus cathartica*), a native plant of Eurasia, is an invasive species that dominates many of the forests in the Midwestern United States. Common buckthorn changes the availability of nutrients in forest soils, but less is known about how buckthorn leaves might affect stream ecosystems. At the Carroll University Greene Field Station, we deployed nets over Genesee Creek to collect the leaf litter reaching the stream. Common buckthorn contributed 24% of the total leaf fall biomass to Genesee Creek, while green ash (*Fraxinus pennsylvanica*) contributed 67%. These findings suggest that common buckthorn contributes a significant percentage of the total leaf biomass entering Genesee Creek, but much less than green ash.

BUSINESS, ACCOUNTING & ECONOMICS  
**Session IV**  
**Location:** Main Hall  
**Oral Presentation**  
3:30 p.m.-4:30 p.m., Main Hall 116  

Nathalie Arredondo, Allison Hall, Samantha Kasmer, Karly Pearson  
*Mentor:* Michael Levas  
**Title:** Charity: Water Promotional Campaign  
**Abstract:** We present an advertising and marketing campaign geared toward promoting the involvement of students in Charity: Water through print advertisements, billboards, magazine advertisements, online website, campus groups and other promotional tools.

BUSINESS, ACCOUNTING & ECONOMICS  
**Session I**  
**Location:** Stackner Ballroom, Campus Center  
**Poster Presentation**  
12:00 p.m.-1:00 p.m.  

Ali Vadeboncoeur  
*Mentor:* Michael Levas  
**Title:** Chillin' Buddy  
**Abstract:** My presentation will be a summary of my Marketing Research class project. I am working as an intern for Napkin Innovations, where I am completing marketing research for a new product, the Chillin' Buddy beverage cooling system. My presentation will summarize the work that I did for Napkin Innovations and an update of where the product is currently at in the market. (Presentation of the Chillin' Buddy has been approved by Napkin Innovations).

CHEMISTRY  
**Session IV**  
**Location:** Stackner Ballroom, Campus Center  
**Poster Presentations**  
3:30 p.m.-4:30 p.m.

Elizabeth Ebensperger, Katelan Hall, Michael Harland, Jamie Platz  
*Mentor:* Gregory Marks  
**Title:** Chemistry for All Ages at Carroll University  
**Abstract:** To increase the awareness of chemistry in our lives, it is important to get people interested in science at a young age, and then reinforce this connection throughout life. This year, our club focused on getting people of all ages excited about chemistry. At the elementary level, hands on experi-
ments, such as the whoosher bottle and making slime were done with Girls Scout and local elementary schools. We met with high school students to help them learn about future options available with a chemistry degree. We then reinforced the connection to chemistry with college age students on our own campus by holding activities such as Combustion Day, Periodic Table Bingo, and a Liquid Nitrogen Ice-cream Social. To tie all ages together, demonstrations were offered to all age groups during Family and Sibling Weekend. These activities all promoted Carroll University’s Chemistry Club and chemistry to all age groups.

**Sara Gonzalez**
**Mentor:** Michael Schuder

**Title:** Measurements of NO2 and O3 Near Elementary Schools  
**Abstract:** Recent studies suggest a relationship between high levels of pollutants near schools and new-onset asthma in children. This project focused on determining the levels of two pollutants, O3 and NO2, in areas immediately near four elementary schools – two suburban schools and two urban schools. Pollutant specific Palms-type diffusion tubes were utilized to collect data. The O3 tubes were analyzed via ion chromatography on the HPLC with reference to a standard nitrate solution calibration curve. The NO2 tubes were analyzed via UV/Vis spectrophotometry with reference to a standard nitrite solution calibration curve.

**Andrew Koopman**
**Mentor:** Joseph Platt

**Title:** Optimizing the Extraction Purification of Emodin from Rhamnus cathartica and Rhamnus frangula: Uniform Design Theory, HPLC-UV  
**Abstract:** Optimizing the extraction and purification of emodin from Rhamnus cathartica (common buckthorn) and Rhamnus frangula (glossy buckthorn) has applications in both medical and environmental research. Buckthorn is an invasive species that contains the compound emodin, a 3-ringed anthraquinone. A Uniform Design Theory procedure was used to determine optimal experimental parameters for the extraction of emodin. Extraction factors included the solids ratio of biomass to solvent, extraction time, temperature and solvent composition (acetone/methanol). Each of the factors had a range of five levels or set points obtained from Uniform Design Tables. Uniform Design Theory dictated that for each plant species (common and glossy), only five experiments needed to be conducted using a combination of the four factors and five levels. The extractions were followed by filtration and quantitative analysis using reverse phase HPLC/UV. Analytical responses were processed using a forward regression analysis to find a polynomial function that described the relationship between variables and responses. From the polynomial function, the experimental conditions that provided the most efficient extraction inside the experimental domain considered were determined.

**Chasue Lee**
**Mentor:** Kevin McMahon

**Title:** Intramolecular Photocycloaddition of Ester and Amide-tethered alkenes to Aromatic Ketones

**Abstract:** [2+2] Photocycloadditions of oxygen-tethered alkenes to aryl ketones have been previously carried out in the presence of ester and amide substituents. In this study, we have examined similar cycloadditions of alkenes tethered to the aryl ring by an ester or amide linkage. We will discuss the versatility of this approach in formation of complex ring systems.

**John Ludwig, Shannon Melcher**
**Mentor:** Gregory Marks

**Title:** Binding Affinity and Structure of Glycitein with Rattus norvegicus Estrogen Receptor beta  
**Abstract:** Estrogen receptors are steroid transcription factors with comparable function, but show cell localization and binding affinity variation for different ligands. Phytoestrogens are plant estrogens with similar structures to 17b-estriol and bind to mammalian ERs, altering the expression of genes that trigger changes in aging, contribute to cancer, and disrupt of the reproductive system. The least characterized of these is glycitein. Our goal was to determine the specific effect of glycitein on rats through binding affinity and structural methods. We subcloned the LBD of ERb, expressed it in E.coli, and then purified it. Our lab hopes to experiment with crystallizing ERb with other phytoestrogens which we will adapt for determining the x-ray crystal structure and combine with ITC to determine the binding constant.

**Rachael Reinhard**
**Mentor:** Michael Schuder

**Title:** Titanium Dioxide Thin Film Microfluidics  
**Abstract:** Traditional microfluidic devices have long been used in diagnostic testing, but fabrication and operating costs have made these devices inaccessible to developing nations. This research aimed to create inexpensive 2D microfluidic devices from titanium dioxide thin film materials. Devices were investigated for their ability to demonstrate substrate adhesion, wicking capability, mixing, and antibody affinity. Light Microscopy demonstrated adhesion of titanium dioxide paste to sandblasted-frosted glass and chemically-frosted glass substrates. Scanning Electron Microscopy showed pore formation and surface cracks that aid in wicking capabilities. Food color tests confirmed wicking capabilities and mixing in the zigzag geometry deposited via doctor blading on sandblasted-frosted glass. X-Ray Photoelectron Spectroscopy of silanized samples showed the presence of nitrogen groups on the surface of the device, indicating antibody attachment is possible.

**Timothy Schluetermann**
**Mentor:** Michael Schuder

**Title:** Synthesis of Molecular Nanomagnets with Azide Bridged Manganese (III) Triangles  
**Abstract:** Molecular nanomagnets have important uses in molecular spintronics, information storage, and quantum computation. The particular small molecule magnets in this study were based on the manganese six triangles formed with salicyaldoxime ligands. The molecules that have been made previously contain two triangles, each of which has three manganese (III) metal atoms bound by a central oxygen atom. The two triangles are subsequently held together by the sali-
cyaldoxime ligands. The overall structure of this metal complex was retained and the only changes to be made were on the top and bottom of the molecule. Two of the reactions produced new molecules. One had an azide bridging center of two triangles and the other an azide bridging between the triangle and a sodium atom.

Melissa Skibba
Title: Detection of Nitric Oxide Release in Cell Medium through Surface Enhanced Resonance Raman Scattering
Abstract: Uncontrolled cellular nitric oxide production can often be indicative of aberrant enzymatic activities in vitro. Therefore the ability to monitor the release of nitric oxide in a sensitive and specific manner is highly demanded. Herein, diaminofluorescein dyes were used as nitric oxide sensors whose detection from a cell medium was demonstrated through surface enhanced resonance Raman scattering.

Stephanie Tesch
Title: Shortages in Today’s Pharmaceutical Industry
Abstract: In the United States today, there are serious problems within the pharmaceutical industry concerning drug shortages. The FDA, government and researchers are having a problem pinpointing a specific reason behind these shortages and, therefore, are lacking a solid solution to the problem. My project looks at the main two theories behind the shortages: the mere downfall of manufacturing processes, and the economics behind the situation and whether the shortages result from an attempt to raise the profitability of select firms in the market. I will also discuss possible solutions to the current crisis.

Megan Wargolet
Mentor: Kevin McMahon
Title: Synthesis and Structural Characterization of N-Heterocyclic Carbene (NHC) Vanadium (V) Oxo-Halide Complexes
Abstract: A series of vanadium (V) oxohalide complexes supported by monodentate and bidentate N-heterocyclic carbene ligands of the composition [VOCl3L1-2 and VOF3L1-3] (L1=1,1’-di(mesityl)-3,3’-methylene-diimidazolin-2,2’-diylidene (1), L2=(N,NE’,N,N’E)-N,N’-(ethane-1,2-diylidene)bis(2,4,6-trimethylaniline) (2), L3=1,3-bis-(2,6-diisopropylphenyl)imidazol-2-ylidene (3)) were prepared and characterized via air-sensitive synthetic techniques and a range of spectroscopies. Early transition metals such as vanadium are known to give complexes that are very active alkene metathesis catalysts, but are often unstable. By using N-heterocyclic carbenes as bulky ligands, the high oxidation state vanadium center was stabilized creating a steric profile. The structure and composition of complexes 1-3 were characterized through the combined analysis of the IR, NMR, and mass spectra.

COMMUNICATION Session II & III
Location: Stackner Ballroom, Campus Center
Poster Presentations
1:10 p.m.-2:10 p.m.
2:20 p.m.-3:20 p.m.

Chelsie Alf
Title: The Real World: A Qualitative Analysis on the Stereotypes Presented
Abstract: The purpose of the study was to determine what types of stereotypes are being consistently portrayed through the popular reality television show “The Real World.” The research assessed a season of “The Real World” every 10 years since its beginning in 1992. The cast members of the three seasons chosen were analyzed using a coding sheet for their character traits, verbal action and nonverbal action. The results showed similarities between the types of stereotypes cast for the show throughout its 20-year existence.

William Alward
Title: Athletes and Twitter
Abstract: This study researched how athletes are viewed on Twitter by two different groups. The two groups in this survey were people who followed athletes on Twitter and people who did not follow athletes on Twitter. The survey was created on surveymonkey.com to see how people viewed athletes who are on Twitter. The group that followed athletes on Twitter was found to have a more favorable perception of those athletes. Most of the people who did not follow athletes had a neutral feeling toward athletes being on Twitter. In regards to players being controlled on when or what to tweet by leagues or teams, the majority of both groups felt that there should be no control by either league or team.

Thomas Beck
Title: Computer Mediated Communication During Online Discussions
Abstract: As technology evolves in the 21st century, Computer Mediated Communication continues to become an increasingly utilized tool for work and social interactions. This study, which was conducted on Blabbermouth.net, a music news website where members can post comments, analyzed the frequency of both positive and negative types of initial postings, as well as the types of responses they received. The results demonstrated that negative or inflammatory comments are more frequently posted than positive or affirming comments relative to article topic or the users of the website. Respondents more frequently react in an inflammatory manner when the initial posting was a direct attack on them or other users of the website, rather than if the comments were topically related.
THE UNIVERSITY’S ACADEMIC CONFERENCE

Caleb Conn
Title: Preferences for Self-Disclosure as a Function for Seeking Help in Depression Scenarios
Abstract: Self-disclosure was tested for first-year students based on help-seeking behaviors for depression-related symptoms. Participants were asked to rate the likelihood they would self-disclose to a professor, best friend, family member, professional counselor, or orientation mentor. One hundred and seven first-year students were surveyed, revealing that, in both low and severe cases of depression, students rated being more willing to disclose to parents and friends. Also students in high-severity depression were more likely to seek help from professional counselors than those in the low-severity depression condition. Implications include that if this shift in self-disclosing habits is due to a misperception for causes of depression, then college students are at risk for a decreased desire to seek help from a professional counselor.

Krista Helbing
Title: Cultural Competency and Travel
Abstract: Cultural competency is growing in importance in the growing global economy. Similarly, individuals are traveling more for reasons such as leisure as well as business. This study aims to research the relationship between cultural competency and travel. I hypothesize that as travel increases, cultural competency increases. Participants in the study were from a Midwestern university and a pharmacy local to that university. A Pearson's correlation was conducted and found there was a .481 correlation between travel and cultural competency, with significance of p < .001. From this correlation, it was concluded that for this sample, as travel increased, so did cultural competency.

Kristina Ljujic
Title: Musicians and Bands on Facebook and Twitter: Why It Matters to Listeners
Abstract: With more than 800 million active users on a social networking website like Facebook, it's no wonder that musicians and bands use it as a way to connect with their fans. Surveys distributed to 92 college students in and around Milwaukee (70 of which were useable in the study) asked what kind of information they looked for on musicians' and bands' Facebook and Twitter pages, how they used that information, and why it was important to them. This study will focus on their responses to those questions and what motivates them to look for specific information, as well as attempt to determine whether or not their reasoning for wanting this information varies based on their genre of choice.

Mallory Luedtke
Title: Communication Through the Use of Social Networking in Long Distance Romantic Relationships
Abstract: Social networking is becoming more and more popular in today's society due to the expansion and improved knowledge of technology. This study examines the types of communication in long-distance romantic relationships (LDRRs) through the use of social networking through Facebook, MySpace and Twitter. Many relationships are separated by distance because couples are leaving for different colleges. It is important to see the value of social networking in these types of relationships. A survey was distributed to gain knowledge on ways couples in LDRRs maintain these relationships. Communication is a challenge in these types of relationships and this study observes the benefits and detriments of using social networking in a LDRR.

Kelley Moran
Title: The Use of Different Communication Techniques to Motivate College Athletes
Abstract: A vast amount of research in the field of athletics focuses on success and winning. A problem that arises with that is there are some teams that can be successful and win without having a coach who motivates the athletes. For a good team to become great, it is vital for the coach to motivate his/her athletes. When coaches use different communication techniques, it impacts their athletes' motivation positively, negatively or not at all. This study used a questionnaire compiled from multiple situations and statements aimed at college athletes that asked them to rate their motivation in regards to different communication techniques. The results showed significant differences in athletes' motivation and communication techniques in the following criteria: gender, sport played and year in school.

Allison Nastoff
Title: Child-Parent Communication Apprehension
Abstract: The purpose of this study was to determine whether living arrangements affected college students' relationships with their parents and whether living arrangements affected the likelihood of conflict between college students and parents over power structure and changing family roles. Results showed no significant differences in the parent/child relationship based on living arrangements.

Lisa Parisi
Title: A Person’s Reason for Being on Facebook and Their Use of Facebook Chat (Instant Messaging)
Abstract: This study was conducted to gain a better understanding of a person's use of Facebook along with Facebook Chat (instant messaging). Following a quantitative survey of 100 Carroll University students (ages 18-24), respondents were placed into three different categories of Facebook Chat users: seekers, receivers and the turn-offs. The seekers thought of themselves as people who look for friends or family online to have a conversation with. The receivers waited for friends or family to reach out to them to have a conversation. Then there were people who chose to turn off the Facebook Chat application completely. In this study, a conversation was considered chat interaction between two people with more than five responses between one another in a single sitting. This study was conducted to gain a better understanding on how Facebook Chat is being used today by college students.

Laura Pelnar
Title: How the Communication of Learning about Sexual Intercourse Influences Children
Abstract: This study was designed to see if a certain communicator has more of an impact on a child's decision-making
Regarding sexual intercourse, based on what was taught to that child the first time he/she had a sexual intercourse discussion. One hundred college-age participants were examined through a survey that ranged from questions about who taught them to the relationship they had with his/her first sexual partner. The study looked at three hypotheses and a research question that resulted in the findings that peers are the most influential sexual intercourse communicator. Also, there are more college students that have been sexually active than not, and the most common lesson learned during these discussions with the communicator was to abstain from sex or use protection.

Daniel Polaski
Title: Identifying College Students’ Perceptions of the Importance of Proficient Communication Skills
Abstract: The purpose of this study was to determine what undergraduate college students perceive their majors are telling them about the importance of proficient communication skills. The participants in this study were 213 undergraduate college students enrolled in an upper-level course in five of the largest academic programs at a small private university in the Midwestern United States. Participants in each course completed a questionnaire designed to rate the effectiveness of three aspects of each major: professors, course materials and course assignments. Overall results indicated that students in these majors have a moderate to high understanding of the positive impact proficient communication skills have on future success, as well as signify that students have been afforded ample opportunities to develop the oral and written communication skills necessary for future achievement. Further results show that transferring into the university did not severely alter students’ perceptions of the importance of communication skills, demonstrating that these five disciplines are successfully incorporating ongoing communication instruction. Suggestions for further research and educational practices are discussed.

Jordan Reyes
Title: A Qualitative Analysis of Self-Disclosure between Law Enforcement Officials and Their Significant Other
Abstract: The main purpose of this study is to determine how law enforcement officials communicate with their significant others. Using a Revised Self-Disclosure Test and a series of interview questions, data was collected from 10 law enforcement officials from Wisconsin and Illinois. Qualitative analysis of the interviews revealed that not only do law enforcement officials disclose to their significant other, but the officials cater some of what they disclose to the other. It was also found that both positive and negative aspects about work are discussed; while most conversation is general and not in-depth. Limitations, as well as implications and directions for future research, are discussed.

Alexandra Steele
Title: How Siblings Communicate Their Emotional Connection
Abstract: Sibling relationships are the longest relationships that most people will have in their lives. This research is important to find out whether or not the age difference between siblings makes a difference in their emotional connection and how they communicate that closeness. The research asks whether there a difference in the way siblings communicate their emotional connection based on the age difference of zero to two years versus when the age difference is over five years. This study was conducted by surveying 100 participants. The participants answered questions relating to the sibling that they felt the closest to. The results showed no significant difference in emotional closeness based on age difference.

Eric Taylor
Title: Associations Between Text Messaging Use and Relationship Satisfaction
Abstract: The purpose of this study is to discover associations between text messaging behaviors and relationship satisfaction among romantic couples. The participants in this study were 100 college students at a private Midwestern university. To participate, students were required to own a mobile phone, use text messaging and be involved in a romantic relationship at the time of survey distribution. Participants completed a 12-question survey. The survey consisted of questions regarding gender, text messaging behaviors, and a relationship satisfaction measure. Results showed no distinct correlations between certain text messaging behaviors and relationship satisfaction. However, some patterns of text messaging use emerged. Sixty-eight students sent 50 or fewer text messages per day to their relationship partners, but these results were spread evenly across the relationship satisfaction spectrum.

EDUCATION Session III
Location: Main Hall

Oral Presentations

2:20 p.m.-3:20 p.m., Main Hall 201
Alexis Burns, Elizabeth Berg, Genevieve Berg, Courtney Kagy, Casey Klosterman, Nicole Leden, Jodie Moore
Mentor: Kathrine Kramer
Title: The Spirit of Diversity: How Cultural Immersion Impacts Perspective
Abstract: This interactive presentation explores the impact of a two-week cultural immersion experience in the Racine Unified schools and the surrounding community. Students participating in the immersion experience will share insights related to pre/post perspectives of teaching in an urban setting. This presentation includes transformative stories and facilitated discussions that explore how personal connections impact and inspire multiple perspectives. Please join us as we reflect on the ways in which our interactions with students, teachers and other community members influenced a better understanding of intercultural sensitivity.
Kimberly Brown  
**Mentor:** Sandra Shedivy  
**Title:** "The Real World": More Opportunities than Reality Television  
**Abstract:** Education is a rewarding occupation that promotes helping students and changing lives. However, being a teacher is not always a profession that is desired by all education students. This study will discuss the various opportunities that a student can pursue with a degree in educational studies. There will be an analysis of several occupations outside of the traditional K-12, the conditions, salaries and overall outlook of the careers. An investigation will evaluate how the Carroll University's guiding principles correlate with the different professions. The presentation will also include an inside look from a first-hand account of a practicum placement at a church.

**ENVIRONMENTAL SCIENCES** Session III  
Location: Stackner Ballroom, Campus Center

**Poster Presentation**

2:20 p.m.-3:20 p.m.

**Joseph Beckstrand**  
**Title:** An Environmental Assessment of the Proposed High-Capacity Well near Copper Creek in Crawford County, Wis.  
**Abstract:** Copper Creek is within the non-glaciated area of southwestern Wisconsin in Crawford County. It is classified as a class 1 trout stream by the Wisconsin Department of Natural Resources, and is under the potential threat of a proposed high-capacity well within 500 feet of the North Branch of Copper Creek. The property is owned by Dr. Darrell Long, of Lima, Ohio. The well originally was proposed to be used for emergency use only, but was later discovered to be for bottled water use and sale. This project will assess the potential environmental impacts of the proposed action and possible alternatives.

**Stephaney Hesselgrave**  
**Mentor:** Jason Freund  
**Title:** Management Plan for the City of Waukesha's Parks System  
**Abstract:** The City of Waukesha Parks, Recreation and Forestry Department has provided a project that encompasses information about all the parks within the city. There are 47 parks addressed in this management plan, amounting to 1079.79 acres. This project will be used as the guideline needed for the city to gain national accreditation from the National Park and Recreation Association. The goal of accreditation is to show a department's excellence in providing all public needs in park systems. This project is focused on section 7.8 of the national accreditation, which is the Natural Resource Management and Environmental Stewardship. The goal of this plan is to gain accreditation and to create environmentally sound policies and procedures to promote the natural and cultural background of the city of Waukesha for citizens and visitors to this community. This project has addressed environmentally unique areas, with the main objective to protect and preserve all natural areas, as well as endangered species.

**Christopher Murison**  
**Mentor:** Jason Freund  
**Title:** Management Plan for Powers Lake, Kenosha County, Wis.  
**Abstract:** This is a lake management plan on Powers Lake, Wisconsin, located in the southeastern part of the state in Kenosha and Walworth counties. The objective of this management plan is to target five main issues and concerns pertaining to Powers Lake: 1) public recreational water use, 2) water quality, 3) aquatic plant management, 4) land use and acquisition, and 5) lake outflow. Invasive species have also been a problem in the lake, which most of the management plan will be concentrating on managing these invasive species pertaining to the other five issues and concerns in the lake. Proposed actions of the plan are to find solutions to manage, reduce and hopefully eliminate the invasive species present in the lake. Alternatives of the plan are to use other native species known to Wisconsin watersheds that could eliminate or feed on the invasive species.

**Heather Ramirez**  
**Title:** Management Plan for Milwaukee County, Wis.

**Katelyn Rauhut**  
**Mentor:** Jason Freund  
**Title:** Management Plan For Pebble Creek Park, Waukesha, Wis.  
**Abstract:** Waukesha Park Recreation and Forestry has acquired a piece of property known as Pebble Creek Park. The property is within Waukesha, Wis., and the size of the property is 62.65 acres. The major issue with the Pebble Creek Park is the abundance of buckthorn, which is consistently growing throughout the property. The city of Waukesha would like to see the buckthorn treated and removed, which would allow the area to go back to its natural course, allowing the area to be turned into a nature park for the community. However, the main goal for this property is to develop a management plan that would allow the department to start the process of cleanup and removal.

**Jason Riemer**  
**Mentor:** Jason Freund  
**Title:** Management Plan for Family Land Including Lake Emiline, Watersmeet, Mich.

**Kaitlin Tarquino**  
**Mentor:** Jason Freund  
**Title:** Management Plan for Flint Creek Savanna South, Barrington, Ill.  
**Abstract:** My project will be focused on a property called Flint Creek Savanna South in Barrington, Ill. It is owned by a non-profit organization called Citizens for Conservation, and is a 41-acre property that is part of the Upper Fox River Basin of northeastern Illinois. Part of an important groundwater recharge location, its hosts many endangered species.
Management Plan for the property. Proposed Actions: Restore native plants and remove invasive species, while reducing runoff from roads and nearby municipalities. The goal is to restore and preserve it as a natural corridor from Route 22 to US Highway 14. Alternative: Focus more on working with homeowners to expand the property through easements to protect more land. Alternative: Leave area as is and make into a wildlife preserve.

Casie Timm  
**Mentor:** Jason Freund  
**Title:** An Environmental Assessment of the Former Rainbow Springs Golf Course property, Mukwonago, Wis.  
**Abstract:** My project is an environmental assessment of a Wisconsin Department of Natural Resources property in the township of Mukwonago. This property, the former Rainbow Springs golf course, is 970 acres. It was purchased by the WI DNR in 2008 with funds from the Knowles-Nelson Stewardship Fund. The Mukwonago River runs through the northern section of the property, and is considered an exceptional water resource, because it is both clean and biologically diverse. This property also contains important floodplain and wetland habitat. The goals for this property are habitat restoration and protection, and to allow for public recreation.

Brittany Voeks  
**Mentor:** Jason Freund  
**Title:** Management Plan for Scout Lake County Park, Milwaukee County, Wis.

**HISTORY**  
**Session I & II**  
**Location:** Main Hall  

**Oral Presentations**

**12:00 p.m.-1:00 p.m., Main Hall 201**

**Justin Almquist**  
**Mentor:** Abigail Markwyn  
**Title:** We Are What We Are: The Positive Influence of Theatre Toward the LGBT Community  
**Abstract:** In the United States, LGBT activism has been influenced by many things, including the theatre. Theatre allows viewers to encounter controversial ideas in a non-confrontational way. From 1980 to 2000, queer theatre did just that, as seen in “Last Summer at Bluefish Cove,” “La Cage Aux Folles,” “Falsettos,” and “The Laramie Project.” These shows brought up issues important to the queer community during the time they were written, and often formed a more inclusive discourse on LGBT rights than traditional queer activists. Queer theatre became a type of LGBT activism, from 1980 to 2000, that allowed audiences to connect with queer issues on a more personal level and with a positive reaction, while traditional forms of LGBT activism did not always have the same effect.

**Peter Rothbart**  
**Mentor:** Abigail Markwyn  
**Title:** How the Media and Public Distorted the Hippie Movement of the Late Sixties  
**Abstract:** In response to the intense conformity of the 1950s, the hippie movement became popular in the early ‘60s. Hippies originally sought solitude in enclaves like the Haight-Ashbury district in San Francisco. Soon, pop culture depictions of hippies attracted tourist and imitators to these neighborhoods. As these “plastic hippies” overwhelmed the original hippies, the media’s image of the hippies transitioned from positive to one that portrayed them as detrimental to American society. By the early ‘70s, the hippie population was dwindling and their communities were void of any real or original hippies. This paper argues that the media, and particularly popular printed sources of the time, were responsible for the initial popularity and later public disgust that contributed to the end of movement’s short, decade-long life.

**Lauren Sadler**  
**Mentor:** Abigail Markwyn  
**Title:** Constitutionalism and Militancy: The Evolution of Irish Nationalism  
**Abstract:** The interminable Anglo-Irish conflict affectionately dubbed “The Irish Question” by British politicians has been the subject of many an historical study for the last century. Historians and political analysts alike have dissected the process of the evolution of the Irish Nationalist movement that created the “Irish Question” almost immediately following the merging of the British and Irish Parliaments in 1800. The Nationalist movement in Ireland essentially sought to achieve for their country a measure of autonomy from British control; however, the movement and its policies looked vastly different after the First World War than it did during the movement’s initial formalization in the 1880s.

**Timothy Shannon**  
**Mentor:** Abigail Markwyn  
**Title:** Slavic Separation: An Analysis of the Tito-Stalin Split  
**Abstract:** This presentation seeks to explore and explain what caused the political separation between the leader of the Soviet Union, Joseph Stalin, and the leader of the newly formed communist nation of Yugoslavia, Josip Broz Tito, shortly after the end of World War II. The research behind this presentation revealed that at the heart of this schism lay fundamentally differing intentions concerning the future of Yugoslavia and Tito’s involvement in that Yugoslavia.

**INSTRUCTIONAL TECHNOLOGY**  
**Session II**  
**Location:** Web.Alive Environment  

**1:10 p.m.-2:10 p.m.**  

**Andrew Peterson, Michelle Schulte**  
**Mentor:** Theresa Johnson  
**Title:** Technology on Campus: The Voice of Students  
**Abstract:** We will video interview students from different majors about technology. Some questions will be: How well does Carroll faculty engage technology in the classroom? How
should Carroll faculty be using technology in the classroom, according to students’ desires? Generally what technology do students think could benefit the learning experience? Interviews will provide an idea on what technology Carroll students are using and which technologies they wish to use. The presentation will be done through WebAlive and will feature video footage of students being interviewed along with statistics to support the findings. The findings will support changes that Carroll students desire and what technology might be suggested to benefit a student's academic and social life.

INTERNATIONAL EDUCATION  Session I
Location: Stackner Ballroom, Campus Center

Poster Presentation

12:00 p.m.-1:00 p.m.

Anh Tran Xuan
Mentor: Katherine Hammett
Title: Ao Dai - A History, A Legend
Abstract: Ao Dai (“Long Dress”) is the most recognizable Vietnamese traditional dress, actively worn throughout the country during celebrations and formal occasions. The beauty of the women dressed in their Ao Dais always leaves a deep impression on visitors. Developed from the 1930s, throughout many changes, Ao Dai still remains its symbolic elegance and grace. This poster introduces a legendary history of Ao Dai, including its origin from the Chinese court clothing and the Western influences on its design. The legend of Ao Dai profoundly reflects Vietnamese history, culture and people.

NURSING  Session III
Location: Stackner Ballroom, Campus Center

Faculty and Student Poster Presentation

2:20 p.m.-3:20 p.m.

Linda Phillips, Brittany Reiland
Mentor: JoAnn Browne
Title: Guatemalan Women's Maternal Risk Factors and How to Help
Abstract: In May 2011, we traveled to Guatemala, collecting information on basic health care and maternal risk factors in three villages. We utilized a formal survey that had been validated in Guatemala and were able to collect a large amount of information that has given us a very detailed look into the situation and problems in the three villages. Although we focused on maternal risk factors, many things impact a safe pregnancy and delivery. The interviews we conducted with Guatemalan mothers, as well as village health care workers and leaders, revealed that the three villages, although they were from the same department or area, were vastly different. Focused intervention and teaching, developed as part of Nursing 341, will be based on this data.

NURSING  Session IV
Location: Stackner Ballroom, Campus Center

Faculty Poster Presentation

3:30 p.m.-4:30 p.m.

Joyce Ennis
Title: Does Dehydration Contribute to Fall Risk in Older Adults? A Systematic Review Critique for Evidence-Based Practice
Abstract: Cost related to falls continues to climb in the United States, despite current prevention programs. Use of the Cochrane Effective Practice Organization of Care Group (EPOC) serves as the tool to evaluate a systematic review of dehydration for scientific merit for evidence-based practice (EBP) in falls prevention. No universal definition of dehydration exists. Studies correlate clinical measures of axillary moisture, intraocular pressure, laboratory values, and intracutaneous pressure. Methodology unique to Level I research analysis of EBP reveals deficits in scientific rigor and scholarship for application to falls risk assessment. With a Quality and Safety in Nursing Education (QSEN) curriculum, contextual analysis of current evidence supports student learning outcomes and recommendations for clinical practice. Scholarship supporting the Carroll theme of water addresses a vulnerable population.

NURSING  Session IV
Location: Stackner Ballroom, Campus Center

Presentations

3:30 p.m.-4:30 p.m.

Morgan Agnew, Camila Anderson-Fernandez, Kristin Aucutt, Stephanie Blazek, Hilary Boyd, Emily Buettner, Edda Chacha, Emily Clippinger, Rachel Demerath, Dana DeYoung, Lauren Doherty, Danielle Fellin, Marissa Goelden, Abigail Haag, Jordan Johnson, Claire Liska, Emily Logterman, Rachel Luetzow, Jennifer Michalek, Lauren Morgan, Ryan Plourde, Kelly Prescott, Brittany Reiland, Adrienne Salazar, Serena Salentine, Kristal Schneck, Staci Sovva, Michael Swartwood, Sara Tabler, Alison Vander Pol, Meghan Wagner, Ashley Wangerin, Shawna Wilson, Elizabeth Wischer, Jessica Wright
Mentor: JoAnn Browne
Title: The Promotion of Safety for Children-Infant through School-Age
Abstract: These presentations will allow students to highlight their semester projects on various childhood safety topics and injury prevention. Students will present videos and brochures that they have prepared regarding different developmental ages, their risk for specific injuries, and ways to educate that population and their parents to prevent injury. Students will be on hand to give information about local resources and provide details regarding their chosen topic. The public is encouraged to attend this presentation, as a variety of beneficial tools and information will be available for parents and children.
Jessica Beckwith, Lauren Gillette, Jennifer Grams, Stacey Griswold, Allison Kjell, Abby Kommer, Jessica Louis, Eric Mach, Briana Micksch, Kaylee Moore, Samantha Moser, Nicole Paasch, Adrienne Salazar, Kristal Schneck, Kelsey Schuh, Cassandra Seefeldt, Sarah Stagakis, Anne Verhagen, Laura Wardercke

Mentor: JoAnn Browne
Title: Family planning - The Importance of Health and Knowledge Prior to Pregnancy
Abstract: This presentation will allow students to highlight their semester projects on contraception, family planning, risk screening, and complications of pregnancy to educate young adults about the importance of healthy lifestyles, safe choices and proper healthcare before putting themselves and risk for unplanned pregnancy or undesired complications of pregnancy. This presentation will focus on nutrition, risk assessment, screening information, contraceptive options, and education about potential complications that occur when pregnancy occurs without consideration of this information and related health care. Students will display WIKI presentations, teaching and screening tools, and fact sheets for attendees’ information. Students will be on site to answer questions regarding these topics.

NURSING Session IV
Location: Stackner Ballroom, Campus Center

Poster Presentations

3:30 p.m.-4:30 p.m.

Allison Baer
Mentor: Karie Kobiske
Title: Chameleon Healing
Abstract: Nursing students are surrounded by the ideas of nursing theorists and philosophers throughout their educational experience. However, it is imperative that each student develops his or her own philosophy of nursing to promote understanding of a professional nurse’s role. Through my “Chameleon Healing” poster project, I explored the idea that a nurse must constantly adapt his/her role to best care for their patient’s individual needs, similar to a chameleon’s capability of adapting to its environment. This fluid ability consists of acting as an educator, a facilitator, or a supporter to efficiently assist the patient on the road to recovery. This role variation helps the nurse focus on each patient’s unique case and helps promote the patient to their best possible state of health.

Emily Boerneke, Wendy Braun, Lia Geever, Savannah Shores, Susan Wesp
Mentor: Katharine Klink
Title: Advancing End-of-Life Care in Carroll University Nursing Students
Abstract: Death and dying is a difficult process for young nursing students to approach. The current curriculum surrounding death and dying is not supporting Carroll University nursing students to effectively and therapeutically help patients and their families through the dying process. Senior level nursing students will be conducting a pilot study to evaluate the effect of an educational intervention on first semester medical-surgical nursing students. This intervention will utilize didactic and experiential methods. If positive outcomes are achieved, this teaching tool will be incorporated into the Carroll University nursing curriculum.

Molly Falkner
Mentor: Karie Kobiske
Title: Health Optimization Ladder of Oncology Patients
Abstract: I examine a pathway to lead patients with cancer to their optimal health level using the example of massage therapy. The nurse supports each step to the top of the ladder. Only one step can be completed at a time before the next one can be started.

Stefani Fitzgerald
Mentor: Joyce Ennis
Title: Milwaukee County STI Rates: A Research Project and Pilot Study
Abstract: Milwaukee County ranks as having the second highest chlamydia rate and the 44th-highest gonorrhea rate of all counties in the United States. Through data generation, bacterial vaginosis and non-specific urethritis had more than a 72% incidence rate and over a 60% reoccurrence rate in the Keenan Health Center’s STD clinic, Milwaukee. A pilot study was conducted through an educational intervention consisting of take-home reference card booklets in the Keenan Health Center’s STD clinic. The goal of the intervention aimed to better educate clients on STIs to prevent recurrences. The results of the intervention showed that clients were more involved and asked more questions in their education and that healthcare providers were more satisfied with the education given to their clients.

Melissa Guagliardo, Antonio Soto
Mentors: Jamie Hansen, Katharine Klink
Title: Education Session: Depression in Older Hispanic Adults
Abstract: Through a community clinical at the Hispanic Resource Center, we were able to provide services primarily to the Hispanic community as well as other underserved individuals in the Waukesha area. The Hispanic population is expanding and the center provides education, referrals, classes, a senior citizen interactive group and many other resources for the community. The senior group we focused on is composed of a group that meets monthly for education, snacks and socialization. Due to behavioral, biologic, social and environmental factors, we observed there is an increasing disparity that exists in the Hispanic population in relation to depression. Therefore, our project provides an educational session on depression for the senior group that consists of information on depression, and ways to prevent and treat it.
**Mentor:** Emily Krcik, Emily Rudolph  
**Title:** Burmese Refugee Oral Health  
**Abstract:** Burmese refugees have been the largest refugee population arriving in Wisconsin for the last five years. Our clinical during the fall semester was at the Keenan Center in Milwaukee, where this specific population was prevalent. Throughout the semester, we worked exclusively with the Burmese refugees and over time, their lack of oral health became apparent. In collaboration with other nurses working closely with this population, we developed an oral health brochure. This teaching tool covers topics such as appropriately brushing and flossing as well as information regarding where patients can find dentist offices to provide oral care. We are hoping this brochure will be a helpful teaching tool to the Burmese refugee population.

**Tawny Nicoly**  
**Title:** Comfort Care for an Oncology Pediatric Patient  
**Abstract:** What is comfort to you? Pieces of a quilt are like a puzzle; putting each one in its place brings forth something beautiful. Many times, a nurse is faced with the need to piece together a puzzle, especially when it comes to providing one of the most basic necessities, comfort. Katherine Kolcaba and Florence Nightingale are two theorists who made providing comfort the forefront of their theories. Kolcaba and Nightingale gave us many ideas and methods to utilize in our careers as nurses. Our poster highlights that comfort care for a pediatric oncology patient and ways for nurses to manage situations that they encounter.

**Jennifer Ronsman**  
**Mentor:** Katharine Klink  
**Title:** Childhood Safety  
**Abstract:** This semester for Community Health Nursing clinical placement, we were placed in the Pediatric Specialty Care (PSC) unit in the Milwaukee Center for Independence (MCFI), an organization that helps individuals with disabilities. In the PSC, we provided nursing care and support for children ages 0-12 years who suffer from disabilities and were classified as Title 19 dependent. Throughout the clinical, assessment was conducted on areas that need improvement. One such problem was safety in child assessment and documentation in medical emergency situations and following up with the child's parent/guardian(s). The project we designed enhanced the staff's ability to properly document assessments/cares in emergency situations with school-age children and properly follow up with communication to the parent/guardian(s). Positive feedback was given from the nursing leadership within MCFI and implementation of the created documents took place immediately.

**PHYSICAL THERAPY** Session 1  
**Location:** Stackner Ballroom, Campus Center

**Poster Presentations**

**12:00 p.m.-1:00 p.m.**

**Jessica Addington, Andrew Ley, Kyle Sisler, Nicole Widder**  
**Mentors:** Mary Nawrocki, Christopher Hurley  
**Title:** Improving Lifting Mechanics in a Patient with Significant Joint Degeneration: A Case Study  
**Abstract:** This case study investigated the effects an exercise program on a 48-year-old father of four with an extensive medical history. An examination of key strength and range of motion measures, pain scores, quality of life rating, and video analysis of lifting his two youngest children was conducted pre- and post-intervention. A four-week intervention program implemented appropriate strength and flexibility exercises and patient education about body mechanics. The results following intervention displayed greater max hip and knee angles while lifting his children, increased hamstring strength, improved pain scores and quality of life measures. Subject reported greater body awareness with less pain and exertion in caretaker duties. In conclusion, the intervention protocol improved lifting mechanics, strength, pain and quality of life.

**Erin Bach, Jaclyn Blank, Andrew Mattes**  
**Mentors:** Christopher Hurley, David MacIntyre  
**Title:** The Effects of a Therapeutic Exercise Program on Balance in a Patient with CP and Marked Cognitive Delays: A Case Study  
**Abstract:** The purposes of this case study were to investigate the effects of a six-week home exercise program (HEP) on a 20-year-old patient with CP and marked cognitive delays exhibiting impaired balance. Pre and post data were collected for anterior/posterior, medial/lateral and total COG while bilateral standing with eyes open and closed and during a sit-to-stand motion; LE goniometric values; and coordination testing. The HEP focused on challenging the patient's balance, coordination and attention. The program was implemented for 2.5 weeks only, due to busy schedule and limited time. Results showed no improvements in all testing measures. Patient's decreased attention capabilities and lack of program adherence greatly affected the success of the program. Given a longer time period, authors conclude there might have been improvements in results.

**Laura Bartingale, Leslie Elliott, Kristin Fleischmann, Christopher Konle**  
**Mentor:** Christopher Hurley, David MacIntyre  
**Title:** Outcomes Following Physical Therapy Interventions for a Patient With Frequent Tension Headaches: A Case Study  
**Abstract:** Study was performed to determine effectiveness of physical therapy on tension headaches in a 26-year-old female. The intervention consisted of spinal manipulation and deep pressure massage by a licensed PT and a four-week home exercise program (HEP) of neuromuscular re-education, dual inhibition (alternating reciprocal and autogenic inhibi-
Abstract: Male With Chronic Shoulder Disability: A Case Study

Title: Geriatric Patient: A Case Study

Abstract: Angles During Reciprocal Stair Climbing in a 78-Year-Old

Mentor: Brianna DePietro, Eric Hall, Kendall Lewandowski

Abstract: The effects of Therapeutic Exercise on a 22-year-old male with left chronic shoulder disability. A four-week home exercise program focused on strength, flexibility, coordination and stabilization of the shoulder girdle. Pre- and post-outcomes were measured on the shoulder girdle, SC joint and cervical spine bilaterally using motion analysis, active and passive range of motion, and manual muscle testing, using a handheld dynamometer. Patient saw strength gains of the left shoulder that increased active range of motion, which is most likely due to a reduction in pain of the shoulder girdle. The results suggest that a home exercise program is an effective way to decrease shoulder pain and increase functionality.

Sarah Bernhardt, Derek Christiansen, Emily Harrison, Melanie Schroth

Mentors: Christopher Hurley, David MacIntyre, Mary Nawrocki

Title: The Outcomes of a Prolonged Hospital Stay Seen Through EMG: A Case Study of a Patient With an Ischemic Stroke who was Hospitalized for Three Weeks After a Stroke

Abstract: This case study determined the outcomes of hospitalization after a fall on muscle activation in a 45-year-old patient three years post CVA. Pre- and post-hospitalization levels were recorded for electromyography, AROM/PROM, and manual muscle testing on lower extremity muscles involved in gait. Aerobic capacity and quality of life were also assessed. Initially, a four-week intervention program was developed to strengthen the lower extremity muscles to improve gait; however, after a fall the patient spent three weeks in a hospital's rehabilitation program doing an hour of rehabilitation per day. The results showed decreased muscle activation and diminished aerobic capacity that negatively impacted gait. Our findings suggest there were deficits in cardiovascular endurance, EMG activation, strength and range of motion from his initial evaluation.

Kyle Boudreau, Mackenzie Clark, Eileen Grimm, Holly Lindroth

Mentor: Christopher Hurley

Title: Outcomes Following Therapeutic Exercise on Hip Angles During Reciprocal Stair Climbing in a 78-Year-Old Geriatric Patient: A Case Study

Abstract: The purpose of this case study was to examine the outcomes of a five-week exercise program for a grandmother with weak hip abductors. The home exercise program focused on increasing the strength and stability of the right and left hip abductors and hip flexors. The patient had an increase in muscle strength of the left hip abductor. Improvements were recorded in the post-measurements of active and passive range of motion for the hip flexors, knee flexors, ankle plantar flexors and dorsiflexors. These results show that a home exercise program that focuses on improving the strength and stability of the hip abductors will increase hip abductor muscle strength and increase range of motion of the lower extremity.

Amy Franson, Ann Kosmoski, Jami McAllister, Heather Whelan

Mentors: Christopher Hurley, David MacIntyre

Title: The Outcomes of a Five-Week Flexibility, Strength, and Balance Intervention on Gait and Overall Confidence: A Single Case

Abstract: The purpose of this case study was to describe outcomes of implementing a five-week flexibility and balance home exercise program (HEP) for an 81-year-old patient with no significant co-morbidities. The HEP focused on upper and lower extremity (UE/LE) strength and balance. Results showed increased LE flexibility with clinically significant gains in hip internal rotation AROM (R = 44%, L = 47.8% change) and PROM (R = 56%, L = 37% change), balance with a clinically significant (1100%) change in the eyes closed portion of the Romberg, and UE and trunk posture. No clinically significant findings were found in the sit-to-stand test or other ROM measurements taken. Following the five-week intervention program, the patient reported being more confident in gait and stairs.

Ross Jacques, Aimee Monka, Sarah Schmidt

Mentor: Christopher Hurley

Title: The Outcome of Therapeutic Exercise on a Community-Dwelling Elderly Patient: A Case Study of a Subject Sixteen Years Status Post-Left CVA With Dystonia

Abstract: This case study describes the outcome of a five-week home exercise program (HEP) on an 85-year-old patient with decreased function in her right upper extremity 16 years post left CVA with dystonia and hemiparesis. The focus was to improve manual dexterity of the right hand. Pre- and post-intervention data analyzed grip/pinch strength and upper extremity active/passive range of motion (A/PROM) with surface electromyography assessing a functional task. The results showed an increased in AROM and hand grip/pinch strength within the affected limb. The subject reported improvements in strength, control, flexibility and functionality. These findings suggest a simple HEP combined with patient education may be effective in empowering patients to regain functionality following a CVA and also work to minimize the effects of dystonia.

Brianna DePietro, Eric Hall, Kendall Lewandowski

Mentor: Mark Erickson

Title: The Effects of Therapeutic Exercise on a 22-year-old Male With Chronic Shoulder Disability: A Case Study

Abstract: The purpose of this case study was to examine the outcomes of a home exercise program for a 22-year-old male with left chronic shoulder disability. A four-week home exercise program focused on strength, flexibility, coordination and stabilization of the shoulder girdle. Pre- and post-outcomes were measured on the shoulder girdle, SC joint and cervical spine bilaterally using motion analysis, active and passive range of motion, and manual muscle testing, using a handheld dynamometer. Patient saw strength gains of the left shoulder that increased active range of motion, which is most likely due to a reduction in pain of the shoulder girdle. The results suggest that a home exercise program is an effective way to decrease shoulder pain and increase functionality.
Caitlin Kennedy, Lea Muche, Maja Thoma, Samantha Wierschke
Mentors: Christopher Hurley, David MacIntyre, Thomas Pahnke
Title: The Outcomes of a Trunk and Hip Strengthening Home Exercise Program (HEP) in a Female with Chronic Patellofemoral Pain (PFP) with Previous Surgical Intervention and Failed Physical Therapy: A Case Study
Abstract: This case study assessed the outcomes of a four-week HEP to decrease PFP in a young female with history of lateral release on the left knee. Findings revealed hip adduction and knee valgus during a lateral step down test and imbalanced core muscles during gait. An HEP focusing on core stabilization and hip strengthening was implemented. Pre- and post-test data were collected for core and LE ROM, strength, motion analysis of lateral step down, and muscle activation during gait, sit-ups and crunches. The results showed strength gains of muscles that control knee valgus and increased bilateral symmetry of core muscles. In conclusion, the HEP appeared effective for increasing bilateral core activation symmetry, bilateral LE strength and decreasing knee valgus during a lateral step down.

Abby Lang, Laura Nelson, Kevin Tielen, Breanne Zaremba
Mentor: Christopher Hurley, David MacIntyre, Kathleen Shields
Title: Outcomes Following a Balance and Lower Body Strength Home Exercise Program in a 50-year-old Female to Improve Deficits Caused by Posterior Reversible Encephalopathy Syndrome (PRES): A Case Study
Abstract: This case study was conducted to determine the effectiveness of a five-week home exercise program (HEP) implementing exercises to improve the balance and strength deficits, in a 50-year-old female, following tacrolimus neurotoxicity. Pre- and post-test data were collected for lower extremity (LE) strength, single-leg-stance time, timed up-and-go test (TUG), and EMG of LE while negotiating stairs. A qualitative analysis of the patient’s stair negotiation, sit to stand transfer, and gait was also performed. The results showed improved single-leg-stance time, TUG, strength, and increased EMG activation during stair negotiation. Qualitative analyses of patient’s stair negotiation, sit to stand transfer, and gait revealed increased speed and control. The five-week HEP appeared effective for improving balance and strength deficits caused by PRES.

Matthew Melotte, Jessica Ottow, Brittney Yunto, Melissa Zoerner
Mentor: Christopher Hurley
Title: The Outcomes of Therapeutic Exercise on Balance and Psychological State in a 53-year-old Male Patient with Peripheral Neuropathy and a Right Partial T
Abstract: This case study was conducted to describe the outcomes of implementing a balance training home exercise program (HEP) for a 53-year-old male with right peripheral neuropathy due to diabetes mellitus and a right partial transmetatarsal amputation. After an examination was conducted, a HEP focusing on lower extremity (LE) balance, strength and stretching was implemented. Pre and post data were collected for Functional Reach, Modified 10-Foot Timed Up and Go (TUG), Berg Balance Scale, and Force Plate analyses on anterior/posterior, medial/lateral sway and total center of pressure displacement for bilateral static balance, reaching down for 10-pound and 15-pound weights, and left unilateral stance. Results showed improved bilateral and unilateral stance balance, improved balance confidence, and a decreased risk for falls.

Therese Arkenberg
Mentor: Jennifer Moon
Title: The Demands of Kindness to Strangers
Abstract: Using an understanding of the positions of diverse ethical thinkers gained through research, I formulated a response to the ethical question of the responsibilities of citizens of developed nations with regard to international inequality and severe poverty. I argue that because policies pursued by the governments of developed nations disadvantage the poor in global economic competition, the responsibilities of citizens are stronger than mere charity. I propose a guiding principle of "equal respect" to determine the extent of obligations. Citizens of wealthy nations cannot show equal respect to the poor if they do nothing to confront a system that unjustly limits the capacities and well-being of the poor.

Roxanne Bluhm
Mentor: Kristina Boerger
Title: Billie Holiday and Her Legacy: A Genealogy of "Strange Fruit"
Abstract: "Southern trees bear a strange fruit, Blood on the leaves, and blood at the root..." Blues prodigy Billie Holiday is often remembered for her performances of this text in the antiracist song "Strange Fruit." Certainly her performances are considered groundbreaking in a time when speaking out against oppression and prejudice earned a person rejection, prison or worse. This "statement" music is used as a tool everywhere and its counter partner "entertainment" music exists simultaneously. Discover the differences between these two in a comparison of Ella Fitzgerald and Billie Holiday and the effects that Statement Jazz has in a particular study of "Strange Fruit" in the voices of Billie Holiday, Abbey Lincoln and Nina Simone and how their intentions for "Strange Fruit" come into play.

Kerry Fingland
Mentor: Jennifer Moon
Title: What's for Lunch: A Photographic Conversation
Abstract: This past summer, I worked with Professor Jen Moon on a photography project. We researched the way food has been represented in art, mostly based on the book "Food and Feasting in Art" by Mondadori Electa S.p. A. We read dif-
Dawley Rats to Glycitein Disrupts Ovarian Follicle Maturation

Wisconsin College Campuses

Foraging Strategies

Optimal foraging theory suggests that animals should select meals with the lowest cost-benefit ratio. It is well documented that relative prey size influences both the time and effort needed to consume a meal. However, it is not known why certain prey sizes are selected in comparison to others. The goal of this project is to determine which meal type is most costly – one large meal or several smaller prey of with equal total meal mass. For this project, cost refers to the time and energy (measured through pterygoid protractions) needed to consume a prey item. Preliminary data indicates that prey size does not influence the total amount of pterygoid protractions, yet the time needed to consume one large meal is significantly larger relative to several smaller meals.

Jessica Gall

Mentor: Abigail Markwyn
Title: From Co-eds to Feminists: Second Wave Feminism on Wisconsin College Campuses
Abstract: At three universities in southeastern Wisconsin – Marquette University, the University of Wisconsin-Milwaukee and Carroll (then) College – students participated in the activism surrounding second-wave feminism between 1968 and 1980. The activism was much more lively at UWM and Marquette than at Carroll, due to the more liberal, urban surroundings and the larger size of the two schools. However, even at a smaller institution in a suburban environment, students at Carroll were very aware of the women's movement. The big issues/trends that we found in the archival research included debates over women's dorm hours and co-ed dorms, abortion/birth control, the implementation of women's studies programs, and women's activism. After finding these trends, we decided to focus on newspaper analysis to get insight as to how the students reacted to the movement.

Taylor Kalmus

Mentor: Paul Hampton
Title: Single Large or Several Small: Prey Size Selection in Foraging Strategies
Abstract: Optimal foraging theory suggests that animals should select meals with the lowest cost-benefit ratio. It is well documented that relative prey size influences both the time and effort needed to consume a meal. However, it is not known why certain prey sizes are selected in comparison to others. The goal of this project is to determine which meal type is most costly – one large meal or several smaller prey of with equal total meal mass. For this project, cost refers to the time and energy (measured through pterygoid protractions) needed to consume a prey item. Preliminary data indicates that prey size does not influence the total amount of pterygoid protractions, yet the time needed to consume one large meal is significantly larger relative to several smaller meals.

Luke Miskov

Mentor: Monika Balridge
Title: In Utero and Lactational Exposure of Perinatal Sprague-Dawley Rats to Glycitein Disrupts Ovarian Follicle Maturation
Abstract: Physiologic effects of dietary phytoestrogens are not completely understood and ongoing research is suggesting that they can alter reproductive tissue development. Little is known regarding reproductive effects in offspring following an in utero and lactational exposure to phytoestrogens. This experiment expanded on research investigating the effects of soy isoflavones on developing reproductive tissue in Sprague-Dawley rats. Glycitein was administered subcutaneously in the dams in high (5mg/kg/day) and low (0.5mg/kg/day) doses during gestation through postnatal day 28. A unilateral ovariectomy was performed on the female pups. Estrogen levels were analyzed via RIA. The ovarian tissues were fixed and the follicles were counted. This experiment completes a three-part study testing the deleterious effects of in utero and lactational isoflavone exposure on ovarian tissue.

Colton Pugh, Adam Wied
Mentor: Nadia Dominguez
Title: Death Induction of Neisseria gonorrhoeae by Over-Expression of Neisserial Cryptic Plasmid Proteins
Abstract: Neisseria gonorrhoeae is a gram-negative bacterium found specifically in humans and is responsible for the sexually transmitted disease gonorrhea. N. gonorrhoeae is becoming increasingly resistant to antibiotic treatments and recently a strain has developed resistance against all antibiotic treatment options. More than 96% of Neisseria gonorrhoeae strains contain a 4.2 kilo-base pairs long cryptic plasmid that encodes 10 putative proteins. The function of the plasmid is still unknown; however, sequencing of the cryptic plasmid shows homologous DNA sequences in other bacterial species, which encode toxins, anti-toxins, mobilization proteins (MobA and MobB), and a replication protein RepA. Recent research has also shown in other bacterial species that over-expression of plasmid-encoded proteins can induce cell death. Based on these findings, we propose that over-expression of proteins located in the cryptic plasmid will cause cell death and offer an alternative treatment to antibiotics. In this study, neisserial cryptic plasmid protein sequences were cloned and overexpressed gonococci under control of the lac promoter. Growth induction assays performed under varying concentrations of IPTG consistently showed cell death in AW500, which over-expressed a RepA protein from the cryptic plasmid. In strains carrying an additional copy of the proteins, MobA, MobB, the antitoxin, or the toxin, IPTG induction did not lead to gonococcal death. Further studies should be conducted to determine whether over-expression of multiple putative cryptic proteins can induce gonococcal death and potentially serve as an alternative treatment for gonorrhea.

Brittany Reiland

Mentor: Linda Phillips
Title: Guatemalan Women: Maternal Risk Factors and How to Help
Abstract: In May of 2011, we traveled to Guatemala, collecting information on basic health care and maternal risk factors in three villages. We utilized a formal survey that had been validated in Guatemala and were able to collect a large amount of information that has given us a very detailed look into the situation and problems in the three villages. Although we focused on maternal risk factors, many things impact a safe pregnancy and delivery. The interviews we conducted with Guatemalan mothers, as well as village health care workers and leaders, revealed that the three villages, although they were from the same department or area, were vastly different. Focused intervention and teaching, developed as part of Nursing 341, will be based on this data.
Kelly Scott  
Mentor: Scott Hendrix  
Title: Carving Out a Space for Freedom: Virginity and Widowhood in the Middle Ages  
Abstract: Written works from Saint Paul, Saint Ambrose, Saint Jerome and Saint Augustine helped lay the foundation for the Church doctrines and treatises constructing some of the teachings and practices for the Church during the Middle Ages. These scholars helped motivate the construction of an identity for virgins and widows, in which a number of women adhered to the idea that virginity and widowhood was a way to build a closer relationship with God, as well as acquire both independence and equality in the Middle Ages. These three stages – virginity, widowhood and marriage – were further developed into concepts and behaviors, defining categories of women. These behaviors, in all cases, branch toward an overall identity to attain a relationship with God, as well as independence, and equality.

Joseph Zacharias  
Mentor: Eric Thobaben  
Title: Economic and Ecological Trade-offs Over Six Years of a Long-term Buckthorn Removal Experiment  
Abstract: Common buckthorn (Rhamnus cathartica) and glossy buckthorn (Rhamnus frangula) are invasive species that reduce the floristic quality of wetland communities in the Midwestern United States. Buckthorn removal was conducted along the Genesee Creek at the Carroll University Greene Field Station. Once adult buckthorn had been removed, seedlings were treated via 16 spring/fall combinations of the following four treatments: foliar herbicide, precision torching, manual removal, or no treatment. The cost of supplies and time spent treating seedlings were recorded and combined with Floristic Quality Index (FQI) values to estimate the cost and ecological impact of the different treatments. Treatments including foliar herbicide were least expensive and had the lowest FQI values. Foliar herbicide application appears less expensive, but generates plant communities of lower ecological value.

POLITICS Sessions I, II, III & IV  
Location: Main Hall  
Oral Presentations  
12:00 p.m.-4:30 p.m., Main Hall 101  

Lucas Bennewitz  
Mentor: Lynne Bernier  
Title: “Change” We Can Believe In: An Analysis of LGBT Policies During the Clinton and Obama Administrations  
Abstract: Lesbian, gay, bisexual and transgender (LGBT) issues have played an important role in the executive branch of the federal government over the past two decades, the most dramatic expansion coming from the Obama administration. This study seeks to explain why the Obama administration has focused on these issues more than Clinton’s administration, giving specific attention to Obama’s policies. Public opinion polls, voter responses to LGBT legislation, and special interest group activities reveal that LGBT issues have become more prominent in the public policy debate now than during Clinton’s administration. I expect that the public’s opinion, expectations and current events at the time of these policies have been the driving force that put LGBT issues at the top of the President’s agenda.

Kelsey Dahl  
Mentor: Lynne Bernier  
Title: Picture Perfect Presidency: An Examination of the 2000 Presidential Election  
Abstract: In this essay, I will explore and compare the application of business marketing principles (product, promotion, price and place) in the 2000 presidential campaigns of Al Gore and George W. Bush. To conduct this study, I will define the independent variables. Product will be the presidential candidate and the promotion aspects are the techniques used to sell and advertise the candidate. The price aspects are the campaign finances spent on promotion and place is the chosen locations to campaign and advertise the candidate. I will use the work of scholars such as Joe McGinnis and political advertisements to support my findings. I expect to find that George W. Bush won the presidential election because his campaign more appropriately applied the marketing principles.

Cindy Felix  
Mentor: Lynne Bernier  
Title: Drug Trafficking Violence in Mexico since Felipe Calderon’s Presidential Election in 2006  
Abstract: This study investigates the increase of Mexican Drug Trafficking Organization (DTO) related-violence since the election of President Felipe Calderon in 2006. Causal factors analyzed in this study will be corruption, government actions, drug cartels and weapons; they will be investigated by examining data from the Mexican and United States governments. Data available from conservative and respectable news sources and scholarly experts in the field of Mexican security relations will also be applied to investigate the DTO-related violence increase. The study hypothesizes that Calderon’s official policies have had a major impact on the increase of DTO-related violence since 2006.

Kristyn Francis  
Mentor: Lynne Bernier  
Title: Evolving Standards of Decency: A Look at the Eighth Amendment  
Abstract: What boundaries define “cruel and unusual punishment” in the Eighth Amendment and how have these boundaries shifted over time? This study investigates what explains the change in the interpretation of the Eighth Amendment in Supreme Court cases involving minors and the mentally disabled. It will look at how societal pressures and justices influence changes in Supreme Court legal reasoning. I use three specific cases – Stanford v. Kentucky, Atkins v. Virginia and Roper v. Simmons – to trace evolving standards of decency that reflect societal norms. These cases illustrate a progressive
Court that delivers decisions to reflect a social climate that holds adolescents and those with mental disabilities to lower standards of responsibility compared to others.

**Maggie Heffernan**  
**Mentor:** Lynne Bernier  
**Title:** Prostitution: What is a Developed State’s Role in Regulation, Protection and Prevention?  
**Abstract:** In this essay, I explore how a developed country addresses the issue of prostitution. By adopting Amartya Sen’s argument that development is freedom, I assert that a developed country would create conditions in which all citizens have alternatives to prostitution. Analyzing different views on prostitution, I decipher what social structures and economic circumstances are required for prostitute to be a true choice as opposed to a coerced choice. I then examine to what extent it is a government’s duty to prevent self-harm and whether paternalism is an infringement of liberty. I intend to conclude that it is a developed government’s responsibility to combat prostitution systematically and institutionally.

**Jericklee Kuester**  
**Title:** A Case Study of States’ Felon Voting Policy: Are Political Motives the Root Cause of Political Disenfranchisement?  
**Abstract:** In this paper, I will explore why states in the U.S. adopt differing felon voting policies. I will use political, social and economic factors as my independent variables. Using a two-step case study analysis, I will undertake a longitudinal analysis of felon voting policy in Florida since 2000. This will be followed by a comparison between Vermont, a state with very liberal felon voting policies, and Florida, a state with very conservative felon voting policies. I expect to find that, in both cases, political factors are the strongest predictors of states’ policies.

**Megan Luepke**  
**Mentor:** Lynne Bernier  
**Title:** Similar but Different: A Comparative Study of Federal Family Policy in the U.S. and Canada  
**Abstract:** In an increasingly competitive and globalized world, it can be a challenge for citizens to reconcile having a family with pursuing a career. This paper explores the federal policies of two similar nations—Canada and the United States—assisting citizens seeking that work-family balance. Using the social, political and economic factors present at the formation of the U.S. 1993 Family and Medical Leave Act (FMLA) and the Canadian Unemployment Insurance Act of 1970, this paper will determine why there is a lack of convergence in family policy between the two countries. I expect that all three factors were present at the formation of each policy, social and political factors played a stronger part in Canada, while political and economic factors dominated in the U.S.

**JohnMark McKoy**  
**Mentor:** Lynne Bernier  
**Title:** How has the Recent Collective Bargaining Bill Affected Wisconsin?  
**Abstract:** Collective bargaining rights are a highly contested issue throughout the nation. This research project will evaluate the recent collective bargaining law passed in the Wisconsin Legislature. The law limits the ability of public workers and teachers to bargain for workers’ rights through their unions. This bill was passed amidst a growing state deficit crisis in order to save money. I will explore how this law has affected many aspects of our society. Through this research, I will learn how the law influenced the private and public sectors and how our state’s budget is affected. Finally, I will look at any future impacts it will have on the state.

**Sarah Newkirk**  
**Mentor:** Lynne Bernier  
**Title:** Senators For and Against the League of Nations: Examining Borah and Hitchcock  
**Abstract:** In this paper, I examine the underlying factors behind senators’ decisions regarding the United States’ involvement in the League of Nations. Specifically, I explore the significance of their interest group support, states’ characteristics and political ideology. I will examine the senators’ participation with influential organizations and people to measure the influence of interest groups. I will study their constituency interests and public opinion, and compare it to the senators’ positions to measure domestic influence. To measure the influence of their political ideology, I will analyze speeches and public statements. I expect to find that the senators’ political ideology played the largest role in influencing and explaining why they opposed or supported U.S. involvement in the League of Nations.

**Shannon Schweinhagen**  
**Title:** Europe’s Economic Financial Crisis’ Effect on Political Parties: A Case Study of France, Germany, Italy and Greece  
**Abstract:** In this paper, I will use the cases of France, Germany, Italy and Greece to explore the changes that have occurred in state-level politics from the beginning of the financial crisis until December 2011. For those countries that have had elections since the beginning of the crisis, I will focus primarily on analyzing the voting results. In the case of those countries that have not had an election, I will look at public opinion polls. I will also take into consideration other forms of public opinion, such as opinion articles and instances of civil unrest. I expect to find that there has been a substantial shift in public support for those political parties that were in power at the time the financial crisis began.

**Evihn Vaszily**  
**Title:** Capitalism vs. Socialism in the Business World  
**Abstract:** In the modern world, national success is largely determined on an economic basis, and international businesses serve as a good example of economic prosperity. This research compares how differing government systems affect the success of international businesses bound by the laws, restrictions and benefits of the nations in which they are headquartered. A nation generally recognized as capitalist, the United States, will be compared to Denmark, a nation with many socialist programs. Businesses in each nation will be examined on variables such as return on equity, return on sales and market capitalization. Since capitalist nations put fewer restrictions on business, I expect that businesses in the
U.S. will have greater freedom to take necessary steps toward success.

**POLITICS**  Session IV  
Location: Stackner Ballroom, Campus Center

**Poster Presentation**

3:30 p.m.-4:30 p.m.

**Duy Nguyen**

**Title:** Government Intervention and Economic Growth  
**Abstract:** What is the role of government in the economy to promote growth? This paper aims to resolve that debate by using empirical evidences from economic history of West Germany and Great Britain during two periods of 1950s and 1970s. Both quantitative analysis between West Germany and Great Britain since 1950, and Great Britain in 1950s and 1970s, and qualitative analysis of Great Britain's economic policy will be employed. I find a strong negative relationship between government intervention and economic growth. As noted in the conclusion, this paper might lead to a much more ambitious and substantial finding.

**PSYCHOLOGY**  Session IV  
Location: Main Hall

**Oral Presentation**

3:30 p.m.-4:30 p.m., Main Hall 116

**Emily Callahan, Sarah Gorgol, Ryan Hillmer, Kelli Johnson, Elizabeth Mullen, Kelsey Navins, Allie Nigbur, Leah Wiercinski, Leah Wolfe, Carly Zimmerman**  
**Mentor:** Matthew Scheel

**Title:** Two- and Three-choice Probability-learning by Rats  
**Abstract:** The Matching Law (ML) predicts rats in two-choice probability-learning with correction procedures will match responding to each alternative with percentage of reward obtained from each alternative. Hence, a rat choosing between an option (A) that produces reward on 70% of trials and an option (B) that produces reward on 30% of trials should allocate 70% of responses to A and 30% to B. This study tests whether the ML extends to more than two choices by testing whether rats faced with a 70% option (A), a 20% option (B), and a 10% option (C) will allocate 70%, 20% and 10% to responses A, B and C, respectively.

**PSYCHOLOGY**  Sessions I & II  
Location: Stackner Ballroom, Campus Center

**Poster Presentations**

Noon-1:00 p.m.  
1:10 p.m.-2:10 p.m.

**Hilary Arthur**  
**Mentor:** Tara Schmidt  
**Title:** The Effect of Tattoo Content and Location on the Perception of Masculinity of Women

**Carly Barforth**  
**Title:** The Effect of Living Space Size and Privacy on Reported Roommate Conflict  
**Abstract:** The purpose of this experiment is to better understand the relationship between roommate conflict, privacy and room size. Participants consisted of 40 Midwestern university students living in residential halls with either large or small rooms and were randomly assigned to the alone or together group with their roommate and were given a survey to complete measuring roommate conflict. The results show that room size has no significant effect on roommate conflict and privacy.

**Nicole Beaver**  
**Mentor:** Tara Schmidt  
**Title:** The Effect of Family Alumni and Participation in Athletics on Willingness to Donate To University

**Amalia Becker**  
**Title:** The Effect of Religious Affiliation and Server's Comments on Tipping Behavior

**Emily Callahan**  
**Mentor:** Tara Schmidt  
**Title:** The Effects of Color on Human and Ape Face Recognition

**Heather Dugan**  
**Mentor:** Tara Schmidt  
**Title:** The Effect of Brand Type and Product Visibility on Perceived Self-Monitoring Behavior

**Heather Dugan**  
**Mentor:** Matthew Scheel  
**Title:** The Effect of Social Interactions on Activity Levels in Lab Rats  
**Abstract:** I will be determining if social interactions influence the activity level of rats. Activity level is measured by lever presses in an operant chamber. I hypothesize that social interactions will increase activity levels and there should be more lever presses when the rats are able to interact than when they are not. In the first part of the experiment, I will be shaping the rats to press the lever in the operant chamber by first shaping the sound of the magazine, then shaping the ability for the rats to press the level. In the second part of the experi-
ment, I will be housing the rats in the same enclosure for one week and then housing them separately another week (A-B-A-B design). I will then have students from PSY314 measure the amount of lever presses they push in a half an hour each day per rat for four weeks.

Laura Eirich  
Mentor: Tara Schmidt  
Title: The Effect of Work Space Decorations and Listening to Music on Perceived Sociability

Jennifer Fisher  
Mentor: Tara Schmidt  
Title: The Effects of a Critic’s Spelling Errors and Penmanship on Restaurant Desirability  
Abstract: The purpose of this study was to examine whether spelling errors and penmanship quality of a handwritten review, which was written by an unknown critic, could affect someone's desire to go to a restaurant. Sixty participants were randomly assigned to 1 of 4 review conditions; good penmanship with no spelling errors, good penmanship with spelling errors, poor penmanship with no spelling errors, or poor penmanship with spelling errors. After reading the review, participants completed a survey. It was found that good penmanship significantly impacted desire to go to the restaurant; however, spelling errors or their interaction with penmanship did not significantly impact desire to go to the restaurant.

Lauren Forystek  
Mentor: Tara Schmidt  
Title: The Effect of Socioeconomic Status and Political Attitudes on Perceived Activism

Andres Garcia  
Mentor: Tara Schmidt  
Title: The Effects of Marital Status and Relationship Exclusiveness on Perceived Commitment

Kaitlyn Goth  
Mentor: Tara Schmidt  
Title: The Effect of Parental Weight and Child Weight on Perceived Parenting Quality

Ryan Hillmer  
Mentor: Tara Schmidt  
Title: The Effect of Minor Cosmetic Modification and Openness to Experience on Perceived Likability

Ryan Hillmer  
Mentor: Matthew Scheel  
Title: The Effect of Glucose on "Mistake" Frequencies as a Measure of Impulsivity in Rats  
Abstract: Three rats were trained on a DRL-15 schedule until 100 pellets/hour were earned. Experimental trials consisted of DRL-15 testing after ingestion of either sugar water or plain tap water to display how glucose levels in the brain influence impulsivity. It was hypothesized that the sugar water treatment should influence decreased mistake frequencies. Data was collected for one-hour experimental sessions, and error ratios (presses made/pellets earned) were used as a measure of mistake frequencies, and thus impulsivity. The findings obtained from this experiment yield inconclusive data concerning the effects of glucose on impulsivity; however, experimental results suggest that mistake frequencies decrease with experience. Therefore, further testing under both baseline and sugar conditions could yield results that conform to the initial hypothesis.

Sean Hoe  
Mentor: Tara Schmidt  
Title: The Role of Reciprocity and Attentiveness on Helping Behavior

Noelle Jefferson  
Mentor: Tara Schmidt  
Title: The Effect of Anger and Blame on Experience

Keri Johnson  
Mentor: Tara Schmidt  
Title: Traveling with Autism

Marie Joves  
Mentor: Tara Schmidt  
Title: The Effect of Cosmetics on Men and Women’s Perceptions on Attractiveness and Promiscuity

Hallisey Kunde  
Mentor: Tara Schmidt  
Title: The Effect of Location Familiarity and Recall Cues on Recall

Casey McMahon  
Mentor: Tara Schmidt  
Title: The Effect of Health Level and Type of Healthcare on Perceptions of Healthcare Choice

Kaitlyn Meyrose  
Mentor: Tara Schmidt  
Title: The Effect of Smoking and Unhealthy Eating on Perceived Health

Sydney Miller  
Mentor: Tara Schmidt  
Title: The Effect of Professor Experience and Instructor Status on Perceived Student Learning

Elizabeth Opliger  
Mentor: Tara Schmidt  
Title: The Effect of Time Constraints and Boss or Coworker Presence on Employee Help Seeking Behavior

Margarida Rafael  
Mentor: Tara Schmidt  
Title: The effect of expressive writing and reflection on the creation of false memories
Devan Raishe  
*Mentor:* Tara Schmidt  
**Title:** Effects of Font Style on Recall between Sexes  
**Abstract:** The purpose of this experiment was to examine if font styles could affect recall of information differently for males and females. Sixty participants were randomly assigned to read an article about changing the name of high fructose corn sugar to just corn syrup and then completed a quiz on the reading. There was not a main effect of font style and memory, or a significant main effect of sex on memory. There was also no significant interaction between font style and sex. Continued research on the topic could help to eliminate font styles that complicate recall of information. More experiments done in a similar fashion, but switching font styles and changing up the recall information could help show significance.

Tyler Ratkowski  
*Mentor:* Tara Schmidt  
**Title:** The Effect of Gender and "Liking" a Facebook Friend’s Break-up on Perceptions of the Friendship

Kathryn Rheingruber  
*Mentor:* Margaret Kasimatis  
**Title:** Efficacy of Desensitization Strategies for Test Anxiety Management  
**Abstract:** This study compared anxiety levels of test anxiety workshop participants with anxiety levels of a waitlist comparison group. Fifty-seven self-referred undergraduate students were assigned to either a four-week intervention or a waitlist comparison group. Paired t-tests demonstrated more significant decreases in state, trait and test anxiety for the treatment group than for the waitlist group.

Brian Roscoe  
*Mentor:* Tara Schmidt  
**Title:** The Effect of Academic Achievement on Liking by Competitive and Noncompetitive Students

Mitchell Ruiz  
*Mentor:* Tara Schmidt  
**Title:** The Effect on Survey Score due to the Induction of Increased thought as a Function of Time and Question Vagueness

Victoria Schaewe  
*Mentor:* Tara Schmidt  
**Title:** The Effect of Group or Individual Sport Participation and Career Aspirations on Perceived Career Success

Maya Scherer  
*Mentor:* Tara Schmidt  
**Title:** The Effect of Perceived Entitlement and Age on Willingness to Help

Victoria Zajdel  
*Mentor:* Tara Schmidt  
**Title:** The Effect of Gender and Brand on Perceived Healthiness of Chocolate

Katie Zingg  
*Mentor:* Tara Schmidt  
**Title:** Gender Expression

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**SOCIOMETRY Session IV**  
**Location:** Main Hall

**Oral Presentations**

3:30 p.m.-4:30 p.m., Main Hall 201

Lucia Arboleda, Nelson Delgad, Jacqueline Moraza  
**Title:** Study Habits at Carroll University  
**Abstract:** The group presentation, based on research in the Methods of Social Research course, will the aspect of study habits at Carroll University, including hours studied, methods and environment used by students.

Melissa Edwards  
*Mentor:* Jennifer Huck  
**Title:** Bullying in the College Environment: Linking Past to Present  
**Abstract:** This study explores the college student’s experience with bullying and their perceptions of how past bullying relates to current bullying. The characteristics and types of bullying will be discussed including verbal, physical and cyber bullying. Carroll University students will complete a questionnaire about their bullying experiences to develop an appreciation for the types of bullying that occur on this campus.

Amanda Porter, Katherine Snow  
*Mentor:* Jennifer Huck  
**Title:** Cell Phone Policies in Classrooms: A Study of Carroll University Students and Professors  
**Abstract:** This study is about how professors’ cell phone policies and the situational environment impact cell phone use in college classrooms. A mixed-method approach will be employed with observations, interviews and surveys to determine the reason students use or do not use cell phones during classes. Few studies have explored cell phone policies and use in college classroom, and Carroll University provides a unique environment as a private, small university. This study should fill in a gap of past research to aid policy creation and student norms expectations.
THE UNIVERSITY'S ACADEMIC CONFERENCE

SOCIOLOGY Sessions III & IV
Location: Stackner Ballroom, Campus Center

Poster Presentations

2:20 p.m.-3:20 p.m.
3:30 p.m.-4:30 p.m.

Chelsie Alf
Title: The Role and Influence of Mass Media in Society
Abstract: Sociology allows us to analyze the roles and influence that different people, experiences and environment have in our lives. The mass media is continuously bombarding people with an agenda that has the ability to affect the way we think and the choices we make. This poster explores the various forms of media such as advertising, Internet and television, and seeks to explain how people construct their view of reality based on these media.

Carly Bolli
Mentor: Richard Coon
Title: Homeless Youth in Milwaukee
Abstract: This presentation will tell the truth and findings of homeless youth in Milwaukee. It examines statistics concerning where these youth are concentrated, the reasons they are so prevalent, and the programs that are helping this social problem. It will use sociology as a way to explain why youth have a troubled life at home and why this is a serious social problem. This presentation will show how important it is to attempt to address this issue in Milwaukee.

Thomas Carroll
Mentor: Richard Coon
Title: Population Growth: the Underlying Cause of Global Problems
Abstract: This poster will address the major global issues that the world faces today and how they are driven by one another through population growth. The most significant issues humanity faces because of population growth are environmental breakdown, inequality and global confrontation. These problems are all significant to humanity because life depends on the stability in these areas. Ideas from William Ogburn and Thorstein Veblen will show an understanding of why our past ideas regarding population growth have placed man in the predicament he now faces. Understanding both the risks mankind faces and the source of these risks will be used to show how new ideas can change humanity's future prospects.

Rebecca Hackel
Mentor: Richard Coon
Title: Joining the Peace Corps and the Role Sociology Plays
Abstract: The Peace Corps has always been an interest of mine, so I decided to look at how one can become involved by volunteering. I will look at the benefits of the volunteer as well as the benefits for the community. I will incorporate how a sociology degree would be beneficial to those who volunteer.

Melanie Marzahl
Title: Forensic Anthropology
Abstract: The presentation will focus on forensic anthropology as a sub-field of sociology. Forensic anthropology is a career field with a bright outlook. The poster will outline what forensic anthropology is, how it developed, and its importance to sociology. It will also detail career possibilities, job requirements and related course work. Additionally, a section of the poster features graduate school options for students pursuing an extended education. Ultimately, the goal of this presentation is to educate fellow students and the public on the importance of forensic anthropology, its positive future in relation to the job field, and how it pertains to sociology as a whole.

Jessica Pomrening
Title: Birth Control in Today's Society
Abstract: For this presentation, I will be looking at how birth control has changed and why it is an important aspect to society.

Samantha Sadowski
Mentor: Richard Coon
Title: Consumerism and Waste
Abstract: Today's American market is highly focused on consumerism. There is a high need to obtain objects that is a central part of many American's lives. Production has worked to keep up with that demand and, with technology, has surpassed that need. This over-production has led to huge amounts of waste in the world, waste with no place to go.

Stephanie Spengel
Title: Post-Traumatic Stress Disorder (PTSD)
Abstract: PTSD is an anxiety disorder that develops after a person experiences a traumatic event. This research studies PTSD in relation to social work and how a degree in sociology can help those working with people who have PTSD.

Kaitlyn Vollmer
Title: Non-Profit Organizations
Abstract: My presentation will explain the functions of non-profit organizations and how they work. Many people are unaware of what non-profit organizations do and this will help everyday people become more aware. At the end of the poster presentation, it will show how sociology is/ can be connected to non-profit organizations.

Kimberly Vukovic
Title: Social Work
STAFF ART SHOW  Sessions I, II, III & IV
Location: Stackner Ballroom, Campus Center

12:00 p.m.-4:30 p.m.

2nd Annual Spare Time Art Show
This juried art show will allow Carroll staff and faculty who not from the art or graphic design departments, as well as emeriti, to show off what they do in their spare time. Work will be presented in two- and three-dimensional categories, including photography and electronic images, painting and drawing, jewelry, ceramics and other fine crafts. Work will be juried by a panel, including an art faculty member and a staff member. Prizes will be awarded.

STUDY ABROAD  Sessions I, II, III & IV
Location: Stackner Ballroom, Campus Center

Video Presentations

12:00 p.m.-4:30 p.m.

Robin Kopec
Mentor: Jeannie Burns
Title: A Semester in Italy
Abstract: I will be creating a video describing my experience abroad in Florence, Italy. I will discuss the highs and lows, the differences between the cultures, and the things I learned. I want to give a full review of my experience to interest other students in study abroad and to help them understand what a great and challenging experience it can be.

Megan Luepke
Mentor: Jeannie Burns
Title: Living and Learning in London
Abstract: This short video presentation highlights the travels and experiences of my fall 2010 semester abroad in the United Kingdom through the Washington Center for Internships and Academic Seminars and CAPA International Education. Most notable of my experiences was the opportunity to live and work in London as an intern for the Commonwealth Policy Studies Unit (a research center devoted to solving development and democracy issues within the Commonwealth nations) at the University of London. It was the experience of a lifetime.

Stephanie Tesch
Mentor: Jeannie Burns
Title: Study Abroad-Philipps Universitaet Marburg
Abstract: I will be making a video presentation about my experience during my year abroad in Marburg, Germany. I will highlight important differences in the culture versus the American culture, differences in the structure of their education programs, and various other things I discovered throughout my time in Germany. The video will last 5-7 minutes and will be a collage of photos with my voice explaining the photos and previously mentioned highlights.

Kelli Verhoeven
Title: Study Abroad-New Zealand
Abstract: My presentation includes a movie with pictures and video to portray my experiences in New Zealand while studying abroad.

Amy Williams
Mentor: Jeannie Burns
Title: A Brit Without a British Passport: Studying Abroad in the United Kingdom, Fall 2010
Abstract: The presenter studied abroad at the University of Lancaster in the United Kingdom in the fall of 2010. During her time spent there, she learned lessons about adaptability from living in a different culture for about ten weeks. And, the presenter found that she was very well suited for British life.

THEATRE ARTS  Session II
Location: Main Hall

Oral Presentation

1:10 p.m.-2:10 p.m., Main Hall 201

Ann Abney
Mentors: Jennifer Dobby, James Zager
Title: Altering the Whole Face of the Stage: The Inclusion of Actresses on the English Stage in 1660
Abstract: The Restoration of the monarchy in 1660 did more than to restore Charles II to his throne and to establish Great Britain as a true constitutional monarchy. The Restoration also included a rebirth of theater, especially in London. This rebirth would turn theater on its head. When theater was restored in London with Charles II, actresses appeared, bringing an entirely new dimension to Restoration theater that would continue to affect women and theater-goers’ lives long after the novelty wore off.
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