

Congratulations to all students participating in the
2010 CAPSTONE FESTIVAL

Nomination to the Capstone Festival is in itself a high honor. To recognize extraordinary achievement, top honors will also be given in each presentation category (delivered papers; presentations with multi-media support; posters; and visual/audio-visual creations). Panels of three judges will evaluate the creativity, challenge, and execution of the projects as well as the ability of the presenters to communicate the content and significance of their work to a general audience. Top honors awards are accompanied by a cash prize of \$150.

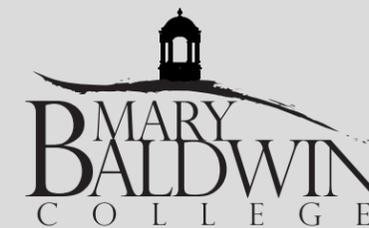
CAPSTONE FESTIVAL



THE SHOWCASE OF UNDERGRADUATE RESEARCH,
SCHOLARSHIP, AND CREATIVE ACTIVITY AT MARY BALDWIN COLLEGE

SENIOR PROJECTS ● HONORS PROJECTS ● SPECIAL PROJECTS

MAY 13, 2010



PARTICIPANTS IN THE CAPSTONE FESTIVAL HAVE BEEN NOMINATED BY THE FACULTY BASED ON THE HIGH QUALITY AND ORIGINALITY OF THEIR WORK AND HAVE ACCEPTED NOMINATION.

CAPSTONE FESTIVAL

In the early days of Mary Baldwin Seminary, a Capstone Festival of sorts existed.

“All final examinations were held in public and members of the board of trustees and the townspeople attended to view students parse sentences, do intricate math problems, and recite soliloquies,” writes Professor Emerita of History Patricia H. Menk in her book *To Live in Time; The Sesquicentennial History of Mary Baldwin College 1842–1992*.

By the late 1800s, the practice of public recitations had disappeared. In 2006, Mary Baldwin College inaugurated a new Capstone Festival.

At each year’s festival, a select group of students, nominated by faculty, present their senior, honors, and special projects to the MBC community and the general public. The high quality and breadth of research, scholarship, and creative activities on display is a testament to the legacy of those earlier years and a celebration of our future.

The festival is sponsored by the Advisory Board of Visitors, the Office of Sponsored Programs and Undergraduate Research, the Global Honors Scholars Program, and the Committee on Research, Scholarship, and Creative Activity.

FESTIVAL PARTICIPANTS

ANGELA CATHERINE BARTOLACCI

Title: The Impact of Cultural Competence on Quality: A Case Study of Rockingham Memorial Hospital

Project and Academic Advisor: Steven Mosher

Type of Project: Senior Project

Presentation Category: Presentation with Multi-Media Support

Abstract: The United States is an increasingly diverse and multi-cultural country, and health care organizations must now meet the needs of a wide range of populations. Attention to cultural and linguistic competence has increased in recent years in order to eliminate racial, ethnic, and language disparities in access, delivery, and utilization of high-quality health care services. Fourteen National Culturally and Linguistically Appropriate Services (CLAS) standards have been developed to aid health care organizations in becoming culturally and linguistically accessible. The purpose of this study is to examine the impact of strategies, initiatives, and programs implemented by one organization, Rockingham Memorial Hospital, to meet the fourteen CLAS national standards. Ultimately, this project seeks to determine the relationship between compliance with these national standards and quality of care.



Biography: Angela Bartolacci is a health care administration major from Fishersville, Virginia. She was a member of the Mary Baldwin cross country team for one year and served as a Learning Lab Teaching Assistant

for HCA 101. Following graduation, Angela hopes to pursue a career in the field of health care quality and patient safety.

JESSIE AGATHA BLEKFELD-SZTRAKY

Title: Racism: The Root of the Cambodian Genocide

Project and Academic Advisor: Daniel Métraux

Type of Project: Senior Project

Presentation Category: Poster Presentation

Abstract: When Pol Pot's army overthrew the American-backed Cambodian government in 1975, no one suspected this was the beginning of Cambodia's darkest days. Pol Pot's regime created a social experiment for the entire country that left one in four Cambodians dead. When the Vietnamese defeated Pol Pot's regime after four years of tyranny, the truth behind Cambodia's isolation was revealed. Scholars have tried to understand the driving force of the genocide committed against minorities and the Cambodian people. Pol Pot's political ideology, a mixture of communism, socialism, and Maoism, was thought to be the culprit; this project explored a different possibility. Analysis that takes into



account the history of the Khmer Rouge Communist party and the pressures leading to its formation, the actions carried out against the Cambodian people under the Pol Pot dictatorship, and the his-

torical racism existing between Vietnam and Cambodia leads to the conclusion that racism within the culture pushed the situation into brutality. Further, until the Cambodian people come to terms with their dark history, they will not be able to move forward.

Biography: Jessie Blekfeld-Sztraky is from Hayesville, North Carolina. She is double majoring in Asian Studies and International Economics and Business. This summer, Jessie will be interning in Kenya. After graduation she plans to join the Peace Corps or attend graduate school with a focus on international development.

PAMELA GAYLE BROWN

Title: Child Sexual Abuse and Adult Alcoholism

Project and Academic Advisor: Carey Usher

Type of Project: Senior Project

Presentation Category: Delivered Paper

Abstract: This thesis focused on a possible connection between sexual abuse in childhood and alcoholism in adulthood. Although extensive data exist on both topics, little work has addressed whether or not there is a correlation. In this study, thirty phone interviews were conducted with members of Alcoholics Anonymous to discuss their knowledge of child sexual abuse and adult alcoholism. Data collected from the interviews and existing literature suggests that there is a connection.



Biography: Pamela Brown grew up in Chesterfield, Virginia. She is a sociology major and business administration minor. She transferred to Mary Baldwin College after earning

her associate's degree. After graduation, she plans to attend graduate school to continue studying sociology. Pamela would like to thank her family, advisors, and friends for their support.

OLIVIA BURN

Title: Abstract Forms: A Body of Work Dedicated to Instinct and Self-Expression

Project and Academic Advisor: Paul Ryan

Type of Project: Senior Project

Presentation Category: Visual or Audio-Visual Creation

Abstract: The artmaking process is sometimes an improvised act; these works were produced without any predetermined outcome, the only sign of success being a sense of satisfaction in the individual details created. Natural forms, both organic and inorganic, are referenced heavily in these pieces, which in the context of the pieces, creates a suggestion of the fantastical. This body of work is intended to encourage the audience to spend time considering the pieces; they do not represent any specific objects.



Biography: Olivia Burn is an art major with a double emphasis in drawing and painting. She comes from Knoxville, Tennessee, and is applying to graduate schools in her field.

CARRIE FRANCES CAMDEN

Title: A Maxim of Altruism: The Ethical Theories of Kant and Levinas and A Twenty-First Century Ethics of Dialogue

Project Advisor and Academic Advisor: Roderic Owen

Type of Project: Senior Project

Presentation Category: Delivered Paper

Abstract: As the twentieth century became known as the "Age of Genocide," the phrase "Never Again" remains an empty promise.



With a world advanced through technological progress, our ethics and morality have instead digressed. An analysis of the work of Kant and Levinas provides support for the need to embrace the "Other" in order to end genocide and mass killings. Traditionally, the "I" has been the center and attributed meaning to everything outside itself. How can we bring an end to the violence if "I" decide how much meaning to give to the "Other?" As such, a world in which we embrace one another, there will be no question of geno-

cide intervention because genocide and other horrible acts of violence will simply not happen.

Biography: Carrie Camden is philosophy and religion major from Staunton, Virginia. She also has a minor in peacemaking and conflict resolution. She attended Randolph-Macon Woman's College in Lynchburg, Virginia, for her freshman year but transferred to Mary Baldwin College when RMWC went co-ed. After graduation, Carrie plans to obtain a Ph.D. in genocide studies and become a philosophy professor.

KIMBERLY N. CLUM

Title: Austerity in a Time of Recession: Hungary's Experiment in Giving Priority to International Obligations over Domestic Well-Being

Project Advisor: Judy Klein

Academic Advisor: Amy Diduch

Type of Project: Senior Project

Presentation Category: Poster Presentation

Abstract: Ever since Hungary's induction into the European Union (EU) in 2004, the country has desired entry into the European Monetary Union (EMU). As a closer step towards achieving this



goal, the past decade has seen an opening of Hungary's economy and an attempt to fulfill the Maastricht treaty. As a result, in 2009, Hungary was listed as number eight in globalization. However, this achievement came at a sacrifice to the national economy. This project addressed the economic ramifications that follow after giving priority to international aspirations over domestic well-being during a financial crisis. Such a crisis ultimately led Hungary to rely on the International Monetary Fund (IMF) for a Stand-by

Agreement. Research for this thesis was conducted using the National Nemzeti Bank website, where statistical information is readily available on the many aspects of the Hungarian economy.

Biography: Kimberly Clum is an International Economics and Business major from Fairfax, Virginia. She was a member of the varsity volleyball team for all of her four years at Mary Baldwin. In the future she hopes to work in Washington, D.C., and to attend graduate school.

AUBREY COOPER

Title: The Effectiveness of Case Linkage and Analysis

Project Advisor: Louise Freeman

Academic Advisor: Andreas Anastasiou

Type of Project: Senior Project

Presentation Category: Presentation with Multi-Media Support

Abstract: The process of case linkage, which is the analysis of



specific features of similar crimes in order to link them to one perpetrator, has not yet been fully explored in the field of psychology. Although some data suggest the effectiveness of the process, other findings disagree or are more tentative in stating a conclusion. This review analyzes empirical research relating to case linkage from three different types of crime: robbery and theft, sexual assault, and homicide. The majority of articles reviewed concluded that case linkage is or may be effective, but more research on this

topic is required.

Biography: Aubrey Cooper is a psychology major. She has lived in Woodbridge, Virginia, for the past eleven years and intends to pursue a career in the FBI after graduation.

ELIZABETH E. DANIEL

Project Advisor: Robert Oliver

Academic Advisor: Lallon Pond

Type of Project: Senior Project

Presentation Category: Presentation with Multi-Media Support

Title: University of Virginia Facilities Management, Human Resources & Training Web Site

Abstract: The redesign of the Facilities Management (FM) Human Resources & Training (HR&T) Web site was a win-win accomplishment, the result of collaboration between Betsy and the Director of



HR&T and her staff. Already responsible for maintenance of the FM Web site, Betsy had the technical foundation upon which to expand her expertise, which was significant. The new site covers the broad spectrum of educational and employment opportunities; employee recognition; photographs and slideshows; documents and forms; and human resources guides. The site's design provides continuity of style and color with the main FM Web site, thus maintaining the HR&T department's identification with all of

Facilities Management.

Biography: Betsy Daniel is an ADP senior majoring in Computer Information Systems with a minor in Business Administration. Betsy has worked for the University of Virginia for 43 years and is currently a Business Systems Analyst. She received her AAS in Information Systems Technology from Piedmont Virginia Community College in 2000.

LANA D. ELDER

Title: In Between Time

Project and Academic Advisor: Paul Ryan

Type of Project: Senior Project

Presentation Category: Visual or Audio-Visual Creation

Abstract: After returning from a four-month study in Senegal, Lana struggled with communicating her experience, a fact that she found



to be reflective of her inability to define the experience in her own mind. In this project, she has tried to navigate her memory by searching through her photographs and journals and seeking out elements that are compelling to her. These visual “clues” are evocative of that period in her life, which was separate and totally different from the trajectory of the rest of her experience. Using these clues, she has composed oil paintings and charcoal and ink drawings to create a visual language of her own. This show is the culmination of her search: a study of how this very different past experience exists within her present.

Biography: Lana Elder is a studio art and French major. Originally from New Hampshire, she grew up in Staunton, Virginia, in an old Ford garage. This environment has influenced her study of art at Mary Baldwin. Following graduation, Lana plans to travel.

RACHEL J. EVANS

Title: The International Criminal Tribunal for Rwanda: Genocide, Reconciliation, and the Future of International Humanitarian Law

Project and Academic Advisor: Gordon Bowen

Type of Project: Senior Project

Presentation Category: Delivered Paper

Abstract: In April 1994, Rwanda erupted in a bloodbath, an ethnic genocide of Tutsi by their Hutu neighbors. More than 800,000 Tutsi were killed in just three months. The International Criminal Tribunal



for Rwanda (ICTR) was established in November 1994 for the purpose of prosecuting perpetrators of the genocide to aid national reconciliation and to restore and maintain peace. The efficacy of the tribunal in redressing genocide and other gross human rights violations is the focus of this study. The study also examines the impact of the tribunal's achievements on the future of international humanitarian law. Results indicate that the ICTR prosecuted only a minimal number of perpetrators, damaged relations with

Rwanda, and severely undermined its image in a succession of mistakes. Despite these failures, the International Criminal Tribunal for Rwanda set major precedents for the future of international humanitarian law.

Biography: Rachel Evans is an international relations major from Spring Mills, Pennsylvania. She is a double minor in French and economics. After graduation, Rachel plans to volunteer abroad and pursue a medical degree.

LESLIE A. FREED

Title: Beyond True and False: Wittgenstein and Religious Sense

Project Advisor: James Gilman

Academic Advisor: Lallon Pond

Type of Project: Senior Project

Presentation Category: Presentation with Multi-Media Support

Abstract: Many consider Wittgenstein's later work in *Philosophical Investigations* to be a recanting of his earlier theories in the



Tractatus. Yet this work should more appropriately be considered an expansion of his ideas on what lies at the limit of the world. Wittgenstein's use of language-games aims to dissolve philosophical puzzles, including transcendental puzzles involving God and religion. For Wittgenstein, it was always this feeling for what is higher, this faith in the ultimate mystical method of valuation, which occupied the entirety of his life and work. Wittgenstein was eventually able to locate religious sense in forms of life. Wittgenstein

never considered religious sense to be about the objective existence of God; rather it has always been about human expression and ways of living affected by faith in God. Religion, the mystical, and God lie beyond true and false. They are manifest in our necessary act of living, in our very existence.

Biography: Leslie Freed is a philosophy and religion major from Staunton, Virginia. She began her studies at Stonehill College in Massachusetts in 1981 and has been a student in Mary Baldwin's Adult Degree program since 2007. She was recently inducted into the Alpha Sigma Lambda honor society. Leslie is married and the mother of two “nearly grown” children. She hopes to one day pursue an advanced degree in the philosophy of religion or theology at the University of Virginia.

KATHERINE-JO GALAYDA

Title: Use of the Yeast Estrogen Screen to Determine Endocrine-Disrupting Chemicals in and Around the Shenandoah River

Project Advisor: Peter Ruiz-Haas

Academic Advisor: Karl Zachary

Type of Project: Senior Project

Presentation Category: Poster Presentation

Abstract: Intersex fish and fish with deformities in the Shenandoah River and its tributaries have been cause for concern



in recent years. While the causes are still unknown, it is thought that endocrine-disrupting compounds (EDCs) may be causing these deformities because they interfere with hormones. The Yeast Estrogen Screen (YES) was used to determine if EDCs were present in these waters. The YES is a bioassay involving yeast cells genetically modified to produce beta-galactosidase, which can be detected colorimetrically. The results are measured against a standard of 17-estradiol to calculate the Estradiol Equivalence

Quotient (EEQ) in the sample. Areas that were tested included waste water treatment plants and areas near agricultural activities. EEQ levels ranged from non-precisely quantifiable to 8.3 ng/L. All results exhibited definite estrogenic activities indicating possible contamination of EDCs.

Biography: Katherine-Jo Galayda is a senior chemistry major from Bushkill, Pennsylvania. After graduation, she plans to move back to Pennsylvania with the hope of working for a local pharmaceutical company. In the next two years, she plans to attend graduate school for environmental chemistry somewhere in Virginia.

JOHANNA A. GLEASON

Title: The Effects of Different Latitudinal Characteristics on the Intensity of Avian Malaria in Red-eyed Vireos

Project Advisor: Paul Callo

Academic Advisor: Paul Deeble

Type of Project: Senior Project

Presentation Category: Poster Presentation

Abstract: Avian malaria is a parasitic disease caused by two blood parasites from the genera *Haemoproteus* and *Plasmodium*. The parasites enter the bird's blood stream by insect



vectors such as mosquitoes. These insect vectors tend to thrive better in warmer climates with high humidity. The warmer climate allows for a longer growing season for these insect vectors, which in turn, gives them a longer time to infect the birds. Climate conditions usually vary depending on latitude. The climate tends to be warmer in lower latitudes and cooler in higher latitudes. The purpose of this study was to determine if these different latitudinal characteristics affect

the intensity of avian malaria in Red-eyed Vireos. Preliminary findings suggest that there is no difference in parasite load between lower and higher latitudes.

Biography: Johanna Gleason is a biology major from Disputanta, Virginia. She is a cadet in the Virginia Women's Institute for Leadership, will graduate with a minor in leadership, and currently holds a number of leadership positions within the MBC Corps of Cadets. After college she will be commissioning into the United States Air Force as a second lieutenant. She will be an aircraft maintenance officer stationed at MacDill Air Force Base in Tampa, Florida.

JENNIFER LYNN HOLSHEY

Title: Mission Incompetence: President Reagan's Deregulation of OSHA in the Meatpacking Industry

Project Advisor: Kenneth Keller and Mary Hill Cole

Academic Advisor: Kenneth Keller

Type of Project: Senior Project

Presentation Category: Delivered Paper

Abstract: The creation of the Occupational Safety and Health Administration (OSHA) in 1970 was meant to regulate worker safety in a number of industries across the United States, including the meatpacking industry. During the Reagan administration, the deregulation of OSHA allowed thousands of businesses to govern themselves and influence policy, leaving workers at the mercy of large corporations. An analysis of the meatpacking industry illustrates how disregard for safety, lack of qualified administrators, and disrespect for formal legislation over profit allowed a degree of unsafe working conditions, biased medical attention, and



manipulation of regulations not seen since the turn of the century.

Biography: Jennifer Holshey is a history major from Ashburn, Virginia. After graduation she will take part in the Phoenix Project in Petersburg, Virginia, where she hopes to expand her horizons and pursue a career in the non-profit sector.

JILL JORDAN-LONG

Title: Blending Eastern and Western Cultures in Multigenerational Relationships in the Novels of Amy Tan

Project Advisor: Katherine Turner

Academic Advisor: Patricia Murphy

Type of Project: Senior Project

Presentation Category: Delivered Paper

Abstract: The literary works of the novelist Amy Tan embody an unusual tension between Chinese-born mothers and their



American-born daughters. Marrying the ancient Taoist symbol of Yin and Yang to current sociological theory provides a way of analyzing the mother/daughter relationship Tan describes. In turn, this analysis provides insight into relations between the Chinese and the United States.

Biography: Jill Jordan-Long is an English major with a minor in elementary education. Her hometown is Powhatan, Virginia, where she will teach at Blessed Sacrament Huguenot Academy in the fall. Jill plans to

continue her studies by pursuing a Masters' Degree in Education.

CORINNE ROSE KASURA

Title: Got Melamine? A Thematic Analysis of the Tainted Milk Melamine Scandal in China

Project Advisor(s): Alice Araujo and Bruce Dorries

Academic Advisor: Bruce Dorries

Type of Project: Senior Project

Presentation Category: Presentation with Multi-Media Support

Abstract: This study examined the media coverage of the 2008 Chinese melamine scandal in both the New Zealand and the United



States. A thematic analysis, including an investigation of frames and tone, was performed on newspaper articles. Findings revealed that New Zealand engaged in more passive, balanced reporting, while the United States was more active and negative in the reporting of the food scandal. The United States was able to form its own opinion, while New Zealand's close proximity to China and direct involvement in the scandal kept the reporting more neutral. However, research also showed that New Zealand attempted to separate itself from the scandal.

Biography: Corinne Kasura is a communication major with minors in film and sociology. Her hometown is Glenwood, Maryland. Within the next year, she plans to enter graduate studies in New York University's Cultural Reporting and Criticism Journalism program.



Lindsey Gwaltney, Top Honors in the Visual/Audio-Visual Creation Category, 2009 ("Eggshells").

MASAYO MAEDA

Title: The Impact of Information and Communication Technology (ICT) on College Students' Social Life: An Exploratory Study of ICT Usage at Mary Baldwin College

Project and Academic Advisor: Carey Usher

Type of Project: Senior Project

Presentation Category: Poster Presentation

Abstract: Information and Communication Technology (ICT) is deeply integrated into our modern society. Even though it has been only a couple of decades since it was invented, ICT has dramatically changed our society in a short period of time. In addition, ICT centers are continuously developing and growing, so it is hard to see how ICT really affects our daily life. The purpose of this study was to research the "real" ICT usage at Mary Baldwin College, focusing especially on the socialization aspects of the digital-born generation.



Biography: Masayo Maeda is an international student majoring in sociology and independent studies and minoring in human resource management. Although her future plans are aimed at working in the computer industry, she also wants to continue her studies on human and computer interactions.

ERIKA MIKHAILOVA

Title: A Creation Story

Project Advisor: Paul Ryan

Academic Advisor: Lallon Pond

Type of Project: Senior Project

Presentation Category: Visual or Audio-Visual Creation

Abstract: Erika utilized her own body during pregnancy to investigate sacred space and creation myth archetypes. Her work embodies origin, impermanence, eternity, natural process, pattern and the human experience of awe. She is influenced by Renaissance icons and primitive art making. Her paintings reference traditional western art making and her plaster casts mimic ceremonial tribal art practices of marking the body during rites of passage. They are also reliquaries or storage vessels of her pregnancy.



Biography: Erika Mikhailova was born in Caldwell, Idaho, and she graduated from Saint Johnsbury Academy in Vermont. Erika is a double major in studio art and art history and an education minor. She is currently seeking teaching licensure and intends to enroll in Mary Baldwin's Master of Education in Environment-Based Learning program. Erika is a proud single mother of one-year-old Finnley Sinclair.

GARNETT A. MINGLEDORFF

Title: Neuroendocrine Differentiation Induced by Epidermal Growth Factor: Effects on and Implications for Chemoresistance in Androgen-Independent Prostate Cancer Cells

Project Advisor: Paul Deeble

Academic Advisor: Lundy Pentz,

Type of Project: Senior Project

Presentation Category: Poster Presentation

Abstract: Neuroendocrine (NE) cells have been implicated in the progression of prostate cancer into a more metastatic and hormone-independent stage. NE cells are present in the normal



prostate and help regulate cell growth and differentiation; however, there are known changes in the number, histology, and function of NE cells in association with prostate cancer progression. It is thought that NE cells in progressed prostate cancer express anti-apoptotic proteins and induce neighboring cells to express similar factors, thus preventing cell death. Epidermal growth factor (EGF) has been shown in recent studies to induce NE differentiation in androgen-independent prostate cancer cells. To determine if EGF

plays a role in our model of prostate cancer, androgen-independent PC3 cells were cultured and treated with varying of levels of EGF for three days and then treated with varying concentrations of the chemotherapeutic drugs Cisplatin or Docetaxel for two additional days. A cell proliferation assay was performed after treatment to gauge cell survival. Preliminary results indicate that NE differentiation is induced by EGF and may possibly protect these cells from Docetaxel and Cisplatin-induced cell death. By understanding the underlying mechanisms in prostate cancer progression and chemoresistance, we can develop better treatments to improve patient survival.

Biography: Garnett MingleDorff is from Stanardsville, Virginia, and is a biology major with a biomedical emphasis. After graduation, she is hoping to work in her field before applying to graduate programs in biology.

KATHARINE R. NEWMAN

Title: Uneasy Allies: An Analysis of U.S. Relations with Saudi Arabia

Project and Academic Advisor: Gordon L. Bowen

Type of Project: Senior Project

Presentation Category: Delivered Paper

Abstract: The Kingdom of Saudi Arabia is a repressive, closed, and autocratic society that tops the lists of human rights violations.

Since the 1940s, the United States and Saudi Arabia have enjoyed a



special diplomatic relationship in spite of deeply rooted cultural and political tensions. Have diplomatic relations with Saudi Arabia advanced America's position in the world as an economic, military and moral leader? Examining the scope of U.S.-Saudi relations from 1938 to the present reveals a diplomatic past fraught with divisions and an uncertain future. Although at times the Saudi government helped advance certain American causes, ultimately our relationship has not advanced American interests.

Biography: Katharine Newman is a political science major with a minor in psychology. Her hometown is Springfield, Virginia. She plans to enter a graduate program in international relations in the fall of 2011.

RACHEL NIEVES

Title: Cutting Back: College Students Spend More with Meal Plan Cards than with Cash

Project Advisor: Louise Freeman

Academic Advisor: Heather Macalister

Type of Project: Senior Project

Presentation Category: Poster Presentation

Abstract: The purpose of this project was to examine how the payment methods of cash and debit (simulated by MBC Dining Dollars) would affect college students' spending behavior and their



willingness to donate a dog biscuit to the local SPCA. Previous research has established that payment methods differ in their degree of transparency and coupling; these two factors then in turn affect the perceived pain of paying. In this study, a bake sale was set up to simulate real consumer transactions. Participants were able to purchase brownies, chocolate chip cookies, or rice crispy treats. The participants were also able to purchase dog biscuits for donation.

Analysis of the results supported past research, showing that debit users spent significantly more than cash users. However, it was also hypothesized that debit users would spend more for charity than cash users, but this was not supported by the data. This research suggests that college students would likely spend more money when using a meal plan card than if they paid with cash.

Biography: Rachel Nieves is a psychology major, with a minor in sociology, from Washington, D.C. Rachel has also presented this poster at the 2010 SEPA/CEPO Conference. After graduation, she will enter Mary Baldwin College's Post-Baccalaureate Teacher Licensure program.

SHATERIKA J. PARKS

Title: Employing Health Promotion Initiatives in School Settings: A Program Evaluation of the "Working on Wellness" Program in the Staunton City Schools

Project and Academic Advisor: Steven Mosher

Type of Project: Senior and Honors Project

Presentation Category: Presentation with Multi-Media Support

Abstract: This project uses an outcome-based program evaluation to analyze how effective the youth division of the Working on Wellness Program has been at preventing the development of dia-



betes and cardiovascular diseases caused by a poor diet and sedentary lifestyle. Data collected was statistically inconclusive.

However, reviewing the Working on Wellness Program documentation, including executive summaries, lists of activities, and educational materials, revealed that programs aimed at different populations using different strategies should have customized strategic statements, including statements of mission, vision, values, and goals. These tools would enable these organizations to develop benchmarks, which are essential to determining efficacy.

Biography: Shaterika Parks is a health care administration major with a minor in economics. She is from Charlotte, North Carolina, and hopes to become a member of the Teach for America Corps next fall.

ERIN SPENCER PASCHAL

Title: Taking the Initiative: A Case Study of Proposition 8 in California

Project and Academic Advisor: Laura van Assendelft

Type of Project: Senior Project

Presentation Category: Delivered Paper

Abstract: Proposition 8, the most expensive state ballot initiative in history, banned same-sex marriage in California, thereby overturning a court ruling that legalized gay marriage only six months earlier.



This project used qualitative analysis to determine the impact of established initiative factors that led to the success of this initiative. The data indicate that messaging, disseminated through television advertisements made possible by elite and celebrity contributions and endorsements, was the most significant factor in the Proposition 8 results. It was also determined that organizations and individuals from outside of California contributed to the Proposition 8 campaign; however, the impact of this outside influence is inconclusive and must be examined further.

Biography: Erin Paschal is a political science major and economics minor from Athens, Georgia. She has fully enjoyed her Mary Baldwin experience as an active member of campus. She served two years on the MBC Student Government Association Executive Committee and this past year served as the SGA President. Her future plans are not yet finalized, but she plans to move to Washington, D.C. in hopes of working on Capitol Hill.

RACHEL L. PAULUS

Title: Learning from Honduras: Examining the Costs of Maternal Mortality in Sub-Saharan Africa and Policy Options for Reducing It

Project Advisor: Judy Klein

Academic Advisor: Nicole Oechslin

Type of Project: Senior Project

Presentation Category: Presentation with Multi-Media Support

Abstract: This project explores the costs of maternal mortality on Sub-Saharan Africa (SSA) and investigates whether the successful policies that led to a significant reduction in maternal mortality in



Honduras in the 1990's could be effective for governments and non-governmental organizations (NGOs) trying to reduce maternal mortality in SSA. The findings suggest that the social and economic costs of maternal mortality on SSA are substantial and that greater investment in maternal health would have significant benefits. Evidence presented in this project also implies that, despite a variety of differences in the contexts and periods under study, policy lessons for SSA can still be gleaned from the Honduran

experience.

Biography: Rachel Paulus is an economics major originally from Arlington, Virginia. She has focused her studies on issues of global poverty and development and has been exposed to work in these areas through short-term trips to both Cambodia and Indonesia with World Hope International. In the future, she hopes to pursue work in this field and is considering graduate studies in public policy.

RENA ANTOINETTE PEGRAM

Title: Staunton City Schools: Waste Reduction

Project Advisor: Janet Ewing

Academic Advisor: Claire Kent

Type of Project: Senior Project

Presentation Category: Presentation with Multi-Media Support

Abstract: In the beginning of 2009, Staunton City challenged the Staunton City School system to reduce its waste by 150 tons and to increase effective sustainable activities and programs. A three-



student collaborative team, made up of Megan Hall, Rena Pegram, and LaShante Robinson, came to meet this challenge by implementing a plastic and paper recycling system within Robert E. Lee High School. In the process, they engaged student organizations, teachers, school board representatives, and community leaders to aid in their mission. They worked with the National Honor Society to place recycling bins in every classroom and faculty office and to conduct a schedule for National Honor Society students to collect recycling once a week. This pres-

entation explains the team's research, observations, and recommendations for the continuance and expansion of the recycling program.

Biography: Rena Pegram is a business major with an emphasis in marketing and management. She is an active member on campus, serving as a Resident Assistant for three years, working for the Spencer Society, and participating in various clubs and organizations such as Students in Free Enterprise. She has also been inducted into the Sigma Beta Delta International Business Honor Society. She was born and raised in Richmond, Virginia. She plans to obtain her certified public accountant license.

KATHRYN POLAK

Title: Sexual Differentiation in the Dorsolateral Nucleus of the Asian Musk Shrew (*Suncus murinus*)

Project and Academic Advisor: Louise Freeman

Type of Project: Senior Project

Presentation Category: Poster

Abstract: The dorsolateral nucleus (DLN) is a cluster of motoneurons that enables functioning of certain male copulatory muscles. This study explores a hypothesized sex difference in the DLN of the



Asian musk shrew (*Suncus murinus*). Sexual differentiation is established by means of sectioning the spinal cord via a freezing microtome, after which sections are thionin-stained, enabling a direct count of motoneurons. Results indicate statistically significant differences among the mean number of motoneurons between males and females in the DLN. This sexual differentiation in the DLN parallels functioning of the analogous system in humans, which suggests the DLN of the Asian musk shrew can be used to better understand neural functioning and malfunctioning that could be linked with certain central nervous system disorders.

Biography: Kathryn Polak is a psychology major with minors in mathematics and art history. She is from McLean, Virginia, and hopes to attend graduate school for clinical psychology after taking a year off in order to explore her many interests.



Celebration Reception, 2009.

KATHRYN A. REYNA

Title: Analysis of *The Lord of the Rings* from the Perspectives of Feminist, Post-Colonial, and Queer Criticism

Project Advisor: Katherine Turner and Sarah Kennedy

Academic Advisor: Nicole Oechslein

Type of Project: Senior Project

Presentation Category: Delivered Paper

Abstract: *The Lord of the Rings* is a creative and linguistic work that is unrivaled in its genre for scope, complexity and sheer beauty. There are many different approaches from which to examine the book; many critics have found ecocriticism, Christian criticism and structuralism to be fruitful approaches. Other approaches may be used, as well, including the theories included in the umbrella term "othering." This project considered whether *The Lord of the Rings* reflects a bias against and fear of those who are different, or whether the novel, in fact, embraces and values others. Kathryn's analysis concluded that the approaches of feminist, post-colonial and queer criticism clearly indicate that tolerance and appreciation of difference is shown in the novel.

Biography: Kathryn Reyna is an English major and Adult Degree Program Student from Stuarts Draft, Virginia. She hopes to either teach English in a Virginia middle or high school, or perhaps leave the area and strike out in a new environment with her two intrepid teenagers, Harrison and Aly. She would like to offer them her gratitude for their unwavering support through this adventure.



NAÏANKA RIGAUD

Title: Hormonal Birth Control Affects Women's Face Shape and Perceived Attractiveness

Project Advisor: Louise Freeman

Academic Advisor: Andreas Anastasiou

Type of Project: Senior Project

Presentation Category: Poster Presentation

Abstract: Previous studies have found enhanced female attractiveness in the pre-ovulatory phase of the menstrual cycle. Birth

control pills suppress ovulation through artificial hormone treatment for three weeks followed by a week of placebo treatment. Ten women over the age of 18 taking a form of hormone based birth control were photographed once during the second week of the hormonal treatment and again on the second to fifth day of the placebo week. The two pictures of each woman were presented side by side, in random order and anonymously, to a pool of forty-eight men and women, who indicated which image of

the pair they found most attractive and which face they believed to be narrower. Overall, on-hormone faces were perceived as more attractive and narrower more often than chance would predict. No difference was found between men and women in their preference for the faces. While attractiveness in normally cycling women is associated with fertility, our results showed that birth control pill use is associated with changes in attractiveness not linked to fertility.

Biography: Naïanka Rigaud is a junior psychology and political science major with a minor in Spanish. Her hometown is Petion-Ville, Haiti. She served as the president of the class of 2011 (2009–2010); secretary of the Residence Hall Association (2009–2010); a member of President's Society (2007–2010); and a member of the Student Alumnae Relations Society (2008–2010). After graduation, Naïanka plans to attend law school.



LASHANTE DENISE ROBINSON

Title: Staunton City Schools: Waste Reduction

Project Advisor: Janet Ewing

Academic Advisor: Claire Kent

Type of Project: Senior Project

Presentation Category: Presentation with Multi-Media Support

Abstract: In the beginning of 2009, Staunton City challenged the Staunton City School system to reduce its waste by 150 tons and to increase effective sustainable activities and programs. A



three-student collaborative team, made up of Megan Hall, Rena Pegram, and LaShante Robinson, came to meet this challenge by implementing a plastic and paper recycling system within Robert E. Lee High School. In the process, they engaged student organizations, teachers, school board representatives, and community leaders to aid in their mission. They worked with the National Honor Society to place recycling bins in every classroom and faculty office and to conduct a schedule for National

Honor Society students to collect recycling once a week. This presentation explains the team's research, observations, and recommendations for the continuance and expansion of the recycling program.

Biography: LaShante Robinson is a business administration major with an emphasis in entrepreneurship and management. She is an active leader on campus, serving as a peer mentor, treasurer of the Baldwin Program Board, president of Students in Free Enterprise, orientation leader, and Honor Council representative. She was born and raised in Hampton, Virginia. In the future she plans to establish a child development center.

HANNAH ELIZABETH SCOTT

Title: 2,300 Marks: A Senior Thesis Exhibition in Painting

Project and Academic Advisor: Paul Ryan

Type of Project: Senior Project

Presentation Category: Visual or Audio-Visual Creation

Abstract: For this body of work, Hannah was interested in the meditative quality of mark-making in combination with a range of materials and processes. Instead of working with representational imagery, she opted to make paintings by focusing on a language of monotone, shape, sheer weight of surface, texture and composition. These pieces are composed of a vigorous building up of painted layers, while simultaneously being about a breaking down of the innate desire to tell a story. Each mark she made, area she painted, or textural occurrence she imposed tested the characteristics of the white pigment, the surface, the brush, or all three simultaneously. By taking this reductionist approach, she was reducing the paintings to their "bare bones," because she



wants the viewer to respond to the construction process. Hannah is interested in how communication unfolds between the work and the viewer when the artist intentionally distances her work from the familiar. Does this process of abstraction make concepts more personal, more impersonal, or more universal to the viewer?

Title: Work: A Senior Thesis Exhibition in Printmaking

Project Advisor: Jim Sconyers, Jr.

Type of Project: Senior Project

Presentation Category: Visual or Audio-Visual Creation

Abstract: This project has a lot to do with the willingness to let go of initial intentions and the empowerment that follows. These works are created by using a paper plate lithography technique, wherein four layers of color are separated onto different plates

and then printed on top of one another. These works are meant to be read on a purely visual level. Hannah found that simply the process of making these prints satisfied her and her goal to investigate line, texture, color, composition and the visual accidents that inherently occur with printmaking. She is also interested in the collaborative nature of the medium and blurring the line between technical assistant and artistic collaborator. This exhibition will be a personal declaration and a confirmation that form should lead the way, allowing content to fall where it will.

Biography: Hannah Scott is a studio art major with three concentrations in the areas of printmaking, painting, and photography. Her minor is in art history and her hometown is Richmond, Virginia. She plans to continue her education in graduate school by pursuing her MFA and hopes to teach studio art on the college level afterwards. This painting and printmaking exhibition represents the first two of three thesis projects; Hannah hopes to continue to create new and diverse pieces for presentation in the future.

SAMANTHA LEE SKIBA

Title: Comparative Study of Avian Malaria Parasites *Plasmodium* and *Haemoproteus* in Relation to Foraging Height in Red-Eyed Vireos and Ovenbirds

Project and Academic Advisor: Paul Callo

Type of Project: Senior Project

Presentation Category: Poster Presentation

Abstract: Avian malaria is a disease caused by protozoans, *Plasmodium* and *Haemoproteus*, that parasitize the red blood cells of their hosts. The red-eyed vireo is a common songbird in North American forests, foraging high in the canopy, whereas ovenbirds



forage on the forest floor. These different foraging heights allow the two species to be used to study whether a host-specific interaction exists between foraging height and parasite infection. Blood samples from red-eyed vireos and ovenbirds were collected from Augusta County, Virginia. Parasite infections were detected through polymerase chain reaction of parasite DNA extracted from bird blood samples. A restriction enzyme specific to *Haemoproteus* was used to distinguish between the infections. Preliminary results

show that ovenbirds are infected with *Plasmodium* and red-eyed vireos are infected by both parasites. Research is in progress to determine whether a correlation exists with foraging height. Results of this research will help understand the infection dynamics of avian malaria.

Biography: Samantha Skiba is a biology major and anthropology minor from Harrisonburg, Virginia. She is very involved on campus with the Residence Hall Association, President's Society, Orientation Team, and her work-study job at the Registrar's Office. After graduation, Samantha hopes to follow her interests with birds and wildlife and also pursue a career in the military.

RUTH MARIE SOUSA

Title: The Power of Cattle: The Supremacy of the Cattle Industry in the West During the Late 1800s

Project Advisors: Kenneth Keller and Mary Hill Cole

Academic Advisor: Kenneth Keller

Type of Project: Senior Project

Presentation Category: Delivered Paper

Abstract: The cattle industry was a huge part of the history of the western United States and did much to shape the area in the late 1800s. Cattle associations and wealthy ranchers had a tremendous



amount of control and power over the western United States, shaping laws before the territories had any on the books. The Wyoming Stock Growers' Association in particular garnered an enormous amount of power. However, as more settlers moved to these areas, it became harder for cattle owners to maintain control because the settlers' interests conflicted with their own. In order to keep the West running for their own benefit, they created their own laws; thus, they controlled the West.

Biography: Ruth Sousa is a history major with a minor in art history. Her hometown is Culpeper, Virginia. She plans to take a year to gain experience in her career field before pursuing graduate study with the hope of becoming a museum curator.

KATHRYN L. STEPHENS

Title: The Effectiveness of an Interoperable Electronic Medical Records System between the Department of Defense and the Department of Veterans Affairs in Improving System and Information Quality: A Case Study

Project and Academic Advisor: Steven Mosher

Type of Project: Senior Project

Presentation Category: Presentation with Multi-Media Support

Abstract: In January 2010, the Armed Forces Health Longitudinal Technology Application (AHLTA) of the Department of Defense (DOD) gained full electronic interoperability with the Veterans



Health Information Systems and Technology Architecture (VistA) system of the Department of Veterans Affairs (VA), meaning that VA providers are able to access patient information from all DOD healthcare facilities and vice versa. The purpose of this research was to conduct a case-study evaluation of the effectiveness of an interoperable electronic medical record (EMR) system. Such a system will support the seamless transfer of clinical information between the DOD and VA in improving system and information quality.

Results indicate that the creation of an interoperable electronic medical record system will require significant political, technical, managerial, and financial resources, but will have substantial benefits for the military health system and, one day, the private sector as a whole.

Biography: Kathryn Stephens is a health care administration major with a minor in leadership studies. She is from Leesburg, Virginia, and will be commissioning into the United States Army as a Second Lieutenant. Kathryn will attend Army Medical Department (AMEDD) Officer Basic Course (OBC) at Fort Sam Houston, Texas, and then report to the 44th Medical Brigade attached to the 18th Airborne Corps at Fort Bragg, North Carolina, to begin her career as a qualified Medical Service Corps Officer.

KATHLEEN H. TODD

Title: Hikikomoria: Existential Horror or National Malaise? The Japanese Psyche Post-World War II as Symptom of a Dying Nation

Project Advisor: Daniel Métraux

Academic Advisor: James E. Gilman

Type of Project: Senior Project

Presentation Category: Delivered Paper

Abstract: Currently in Japan, an estimated one million youths are missing from society. They have sequestered themselves in their family homes and have little to no contact with the outside world.



Many believe them to be social misfits or psychologically unsound; in truth, they are silent rebels, trapped in their unwillingness to operate within a country that denies them their individuality. They are the *hikikomori* ("socially withdrawn"). While Japan is a nation that seeks to maintain harmony, many young men and women feel existentially disconnected from the "groupism" that pervades Japanese society. But this is only one symptom of a bigger problem that Japan is experiencing. If youths are retreating into the

womb of their rooms, if the birth rate keeps decreasing, and if the general pessimism of the Japanese continues, how will their society survive?

Biography: Kathleen Todd is a double major in Asian studies and philosophy, hailing from Houston, Texas. She plans to take over the family business, the Houston International Film Festival, after she's exhausted her traveling bug. She loves to sail, explore new cultures, and make tamales.

PERRI LEE WELDY

Title: Strengthening Hamas: Israel's Role and Repercussions

Project and Academic Advisor: Daniel Metraux

Type of Project: Senior Project

Presentation Category: Poster Presentation

Abstract: For years, the power struggle between Palestinians intent on establishing their own homeland and Israelis has dominated Middle Eastern politics. This project examined how Israel has been influential in the rise of its own opposition, Hamas, a



Palestinian radical group. Israel has influenced Palestinian support of Hamas by occupying Palestinian territory, oppressing Palestinians, murdering members of Hamas and Palestinian citizens, and continuing to build settlements on Palestinian land.

Historical sources and journalism over the past ten years were evaluated to examine the rise in Hamas' power and popularity among Palestinians and the ways in which Israel has discredited its own public image. The study concluded with an examination of what can

be done in order to create working relations between Israel and Hamas, as well as between Israel and the Palestinian people, and alternative methods for preventing further radicalization of Hamas were proposed.

Biography: Perri Weldy is from northeastern Pennsylvania and is currently a junior at Mary Baldwin College. She is double majoring in international relations and Asian studies with a minor in peace-making and conflict resolution. After she graduates, Perri plans to intern or work for a couple of years before attending graduate school. She would like eventually to work overseas for the U.S. State Department doing peace and aid work in the Middle East.



Hanna Vargason ("Helping People Help Themselves: Policy Options That Promote a Higher Personal Saving Rate"), Capstone 2009.

LINDSAY WENGER

Project and Academic Advisor: Louise Freeman

Type of Project: Senior Project

Presentation Category: Poster Presentation

Title: Sexual Behavior Differences Based on Experience and Gender of the Asian Musk Shrew

Abstract: The shrew is considered to be a primitive primate, so the species is an excellent candidate for research that can be translated to human behavior and hormones. It is especially interesting to study male behaviors, as previous research has focused on females. Three sets of couples were paired for this study: 12 were virgin females with experienced males, 10 were virgin males with experienced females, and 10 were experienced females with experienced males. Each couple was paired three times and sexual behaviors were observed for 60 minutes. Results indicated that virgin males learned sexual behaviors faster than did virgin females. In addition, virgin males reached ejaculation faster than experienced males, which was the opposite of what had been hypothesized. The most significant result found that that couples mated more quickly if they had mated before.



Biography: Lindsay Wenger is a psychology major from Lorton, Virginia, with a minor in peacemaking and conflict resolution. She will begin attending George Mason University in the Fall to obtain her Masters degree in biopsychology. Her main goal is to obtain a doctoral degree and become a professor and researcher of psychology and neuroscience.

MAY TERM ABROAD CAPSTONE NOMINEES

The following students were nominated for the Capstone Festival but are unable to participate because they are on study abroad programs during May Term. We include their information here in recognition of their achievement and commitment to international awareness.

MARGARET BIVANS

Title: Effects of the CB8 and 5-HT Complex on PC3 Cell Proliferation

Project Advisor: Paul Deeble

Academic Advisor: Lundy Pentz

Type of Project: Senior Project and Honors Thesis

Abstract: Prostate cancer is one of the leading causes of death for men in the western world. With the increase in androgen-independent prostate cancer, treatment options are becoming more limited and less effective. A common characteristic in androgen-independent tumors is the presence of neuroendocrine-like cells that secrete growth factors, such as serotonin, that stimulate the proliferation of other cancer cells. Cucurbit[8]uril, a member of a recently discovered family of macrocyclic molecules, is capable of binding serotonin. We hypothesized that this binding will make serotonin inaccessible to cell surface receptors in prostate cancer cells and thus block their proliferation. Data show that addition of cucurbit[8]uril and serotonin to PC3 cell cultures decreased cell proliferation when compared with serotonin alone. This finding suggests a mechanism by which inhibiting binding of growth factors to prostate cancer cells may have therapeutic potential.

Biography: Margaret Bivans is a biology major with a concentration in biomedical sciences and a minor in chemistry. She is from Darnestown, Maryland, and was an active student on campus all four years, participating in various organizations such as Tri-Beta, ACS, STARS, President's Society, and Orientation. Her plans after graduation are not yet confirmed but she plans on attending graduate school to pursue a career in fine art conservation.

SARAH ROSE FIRABEN

Title: El Valor de la Pasión Versus el Honor en *Bodas de Sangre y La casa de Bernarda Alba* (The Worth of Passion Versus Honor in *Blood Wedding* and *The House of Bernarda Alba*)

Project and Academic Advisor: Ivy Arbulú

Type of Project: Senior Project

Presentation Category: Delivered Paper

Abstract: *Blood Wedding* and *The House of Bernarda Alba* by the Spanish author Federico García Lorca demonstrate the discrimination against women in Spain during the 1930s. The conduct appropriate for women is stricter than that for men. Although the women are aware of this injustice, it is the women who maintain it. The constant maintenance of certain standards establishes norms within the society. An infraction of these norms, depending on the severity, has consequences such as shunning, insults, abuse, removal of rights, or death. Usually these consequences function as a deterrent to unfavorable conduct; however, in the case of the protagonists of the works, their desires are more valuable than their lives or their reputations. Nevertheless, their honor and their family's honor are important to them and cause a great struggle when the protagonists encounter decisions of honor versus their desires. Many times, the protagonists behave well, but at the end each protagonist makes a decision that ends in a death.

Biography: Sarah Firaben is a Spanish major from Staunton, Virginia. She plans to teach Spanish and to continue her education in the classroom and through travel.

DANIELA GUZMAN

Title: Non-Discriminating Pheromones: Female Scent Preference in Regards to Race

Project and Academic Advisor: Louise Freeman

Type of Project: Senior Project

Abstract: Pheromones are chemical substances that are produced and secreted through sweat and saliva by one individual and received by a second individual of the same species. Studies have shown that odor cues play an important role in mate selection, which may help prevent inbreeding. This study investigated whether women found the scent of their own race more or less pleasant than the scent of a different race. Results showed that both black and white women were remarkably similar in their odor preferences, making interpretation of findings problematic.

Biography: Daniela Guzman is a psychology major with a math minor. She was born in Cochabamba, Bolivia, but has lived in Arlington, Virginia for 19 years. This upcoming year Daniela will be traveling to Bolivia to work on various projects before applying to graduate school.

ERIN NICOLE HALL

Title: A Social Psychological Review of Body Image in Black and White College Women

Project Advisor: John Wells

Academic Advisor: Kathy McCleaf

Type of Project: Senior Project

Abstract: In everyday life one can observe that women are struggling to feel worthy and satisfied with their body and appearance. The body image of females in America has received an increasing amount of academic and cultural attention and has become of national concern for all individuals. Poor body image can result in a negative body image, psychological disorders, and complications in social relations. Research was conducted with the participation of young black and white women to determine which racial group had a more positive body image. The results indicated that African-American women had a more positive body image due to family and peer groups, the primary and secondary agents of socialization.

Biography: Erin Hall is a sociology and psychology major with a minor in Leadership Studies. Her hometown is Fort Collins, Colorado. In the fall, she will be entering the Johns Hopkins School of Education Program for School Counseling with a concentration in at-risk youth. Erin hopes to serve as an advocate for educational reform in diverse communities.

MEGAN LYNN HALL

Title: Staunton City Schools: Waste Reduction

Project Advisor: Janet Ewing

Academic Advisor: Jane Pietrowski

Type of Project: Senior Project

Abstract: In the beginning of 2009, Staunton City challenged the Staunton City School system to reduce its waste by 150 tons and to increase effective sustainable activities and programs. A three-student collaborative team, made up of Megan Hall, Rena Pegram, and LaShante Robinson,

came to meet this challenge by implementing a plastic and paper recycling system within Robert E. Lee High School. In the process, they engaged student organizations, teachers, school board representatives, and community leaders to aid in their mission. They worked with the National Honor Society to place recycling bins in every classroom and faculty office and to conduct a schedule for National Honor Society students to collect recycling once a week. This presentation explains the team's research, observations, and recommendations for the continuance and expansion of the recycling program.

Biography: Megan Hall is a business administration major with an emphasis in international and management, with a minor in economics. She has been inducted into the honor societies of Omicron Delta Kappa and Sigma Beta Delta. She is also the recipient of the Outstanding Achievement Award in Business. Her hometown is Louisa, Virginia. She hopes to use her degree to become a financial researcher in an international company.

TIFFANY DAWN MILLER

Title: In Full View / Theoretical Memories: Two Senior Shows in Photography and Printmaking

Project and Academic Advisor: Jim Sconyers, Jr.

Type of Project: Senior Project

Abstract: Tiffany's show in photography explores the ability of the camera and modern digital editing techniques to create large-scale, 360° panoramas. Her main intent is to fool the eye into believing these scenes, which are actually stitched together from as many as twenty different photographs, are one photo—although she is also interested in the ability of this technique to represent a whole scene more fully than any single image, despite its fabri-

cated nature. Tiffany's printmaking show consists of sixteen woodblock prints in full color, with eight prints each of two images. The two images are focused on the theme of childhood attachment and loss, with one major objective being the conveyance and exploration of the feelings that still remain in relation to that loss.

Biography: Tiffany Miller is a double major in Asian studies and studio art, with a dual emphasis in photography and printmaking. A native of the Northern Virginia area, in the future she hopes to live and work in Japan, pursuing translation work either as a career or on the side.

ELIZABETH VUKELICH

Title: A Recipe for Realignment? Dealignment and the Responsible Party Model

Project And Academic Advisor: Laura van Assendelft

Type of Project: Senior Project

Abstract: This project studies the classic theories of realignment, dealignment, and the responsible party model in the context of the 2008 election. In order to determine whether or not we have had a realignment since 1932, this paper adds new data to the existing literature to explore changes in the electorate since that time period. Institutional changes since the 1930s are also investigated in a brief historical overview of the ever-shifting United States party systems. Most importantly, this paper discovers how those institutional changes along with dynamic leadership, electoral composition, and divisive issues contribute to realignment and dealignment.

Biography: Liz Vukelich is a political science and studio art double major from San Diego, California. She plans to spend one more year at MBC to finish up her second major and would like to open up her own business in the future.



Participants in the 2009 Capstone Festival.