McDaniel College Student-Faculty Research Academic Year 2009-2010

INTRODUCTION

McDaniel College is proud to celebrate the joint student-faculty research projects completed in the 2009-2010 academic year.

McDaniel College places special emphasis on student research that involves faculty members as mentors, supervisors and collaborators. Student-faculty research takes place through course work, special summer opportunities, and the senior capstone experience. Although the final form of these experiences may differ from department to department, research projects typically involve close work and multiple meetings between students and their faculty advisors.

To help promote a culture of joint student-faculty research, the College maintains a membership in the Council on Undergraduate Research and provides a range of grants and funding initiatives for students and faculty. Additional forms of support are available within each department's budget, and supplemental funds are available from the Office of the Provost.

In many instances, student-faculty research has resulted in presentations at professional meetings or publications in peer reviewed journals with national circulation. The effectiveness of such programs has been observed by Loren Pope in his book *Colleges That Change Lives*, who notes that colleges like McDaniel have "a faculty of scholars devoted to helping young people develop their powers, mentors who often become their valued friends." (p. 3).

Thomas M. Falkner
Provost and Dean of the Faculty

McDANIEL COLLEGE / Student-Faculty Research / Academic Year 2009-2010

Student	Faculty Collaborator	Title
ART & ART HISTORY		
Kate Goeddel	Gretchen McKay	The work of Georges Seurat
BIOLOGY		
Kay Dixon	Brett McMillan	The effects of different environmental factors on species diversity of Foraminiferal assemblages found on San Salvador, Bahamas
Adam Hudson	Brett McMillan	Nutrient availability in roof runoff of Camp Hashawha/Bear Branch Environmental Center
Danielle Guiffre	Ralene Mitschler	The role of the transcription factor c-Myb in regulatory T-cells
Jana Langley	Ralene Mitschler	Progression of *Perkinsus marinus* infection in the Eastern Oyster, *Crassostrea virginica*
Alexander Vazzano I-Chu Tseng Chen-Yong Lin	Ralene Mitschler	Matriptase activation as a consequence of extracellular and intracellular acidosis
Henry Amankwah	Randy Morrison	Role of p53 in cigarette-induced endothelial cell apoptosis
Lauren DiNatale	Randy Morrison	A spectrophotometric analysis of coloration of three species of curly-tail lizard
Sarah Hirsch	Randy Morrison	Reflectance spectrophotometry of four pigment morphotypes of Panther chameleons
Tyler Mullan	Randy Morrison	The evolution of discrete pigment pattern elements and motifs in proposed phylogenetic relations of *Leiocephalus*.
Kelly Wunder	Randy Morrison	Cloning of the *Mc1r* gene sequence from *Leiocephalus carinatus*
Julie Bryant	Susan Parrish	Comparative genomic analysis of the *Drosophila* Dot chromosome
Grace Kago	Susan Parrish	The Mimivirus L375 protein possesses intrinsic mRNA decapping activity
Eric Lemmon	Susan Parrish	Computational design of a Diels-Alderase

Student	Faculty Collaborator	Title
BIOLOGY *(continued)*		
Anna Miglioretti	Susan Parrish	Improvement of transduction efficiency in mouse primary prostate cells
Jessica Penn	Susan Parrish	Comparative analysis of the *Drosophila* dot chromosome
Holly Debaugh	Louise Paquin	Exercise metabolism: A comparison of blood lactate levels during exercise using upper and lower extremities versus only lower extremities
Natalie Hartman	Louise Paquin	Western blotting to detect the expression of cotransporters in cells infected with botulinum neurotoxin
Sepo Imakando	Louise Paquin	Runx2 activity in breast cancer cells
Kaitlin Reynolds	Louise Paquin	Exercise metabolism: A comparison of oxygen consumption in lower extremity exercise vs. combined upper and lower extremity exercise on the Cybex Arc Trainer
CHEMISTRY		
Kristen Nuckles Abbie Vickers	Peter Craig	Zinc metallo-β-lactamase inhibitor
Darryl McFarland Travis Kinder George Williams	Melanie Nilsson	Factors Affecting Amyloid Fiber Formation
Chris McLaughlin	Richard Smith	Slave Roots in Rockingham Co, NC
COMMUNICATION & CINEMA		
Tyler Carr	Jonathan Slade	Day for Night: Two nocturnal gamers own the night
David Castle	Jonathan Slade	Bromance: Two recently proclaimed bachelors take the college social scene by storm
Brenton T. Green	Jonathan Slade	The Blue Beacon: A wannabe superhero gets in over his head
Nick Green	Jonathan Slade	Bio Adversity: A senior biology student struggles with school, women, and finding a meaningful job

Student	Faculty Collaborator	Title
COMMUNICATION & CINEMA *(continued)*		
Courtney O'Grady	Jonathan Slade	Dem Girl: Phi Mu's newest recruits learn the true meaning of sisterhood.
Zoe Ubaldo	Jonathan Slade	Mason Dixon Roller Vixens: A group of women bond, bruise, and break bones on the roller derby circuit
Thomas Wach	Jonathan Slade	Home: Two brothers from Baltimore serve in the Vietnam War
Shannon Dougher	Robert Trader	Reverse Culture Shock
Jordan Hawthorn	Robert Trader	Gaming
Taylor Hergott	Robert Trader	Team Performance
Lauren Laker	Robert Trader	Visual Message Design
Jack Rinn	Robert Trader	Student Information Seeking
Tiffany Roberson	Robert Trader	Visual Message Design
Ben Shafer	Robert Trader	Visual Message Design
Rob Shawley	Robert Trader	Trust and Internet Business
Saralyn Silbert	Robert Trader	Advice Seeking
Evan Ticknor	Robert Trader	Visual Message Design
Lauren Wallace	Robert Trader	Electronic Church
Callia C. Crossman	Deborah Vance	Communicating pain: An in-depth look at a family of women in the nursing field
Anthony Falgares	Deborah Vance	You're in my space: A qualitative study of freshman roommate conflict
Patty Guzman	Deborah Vance	Filipino migrant mothers and their communication during child rearing
Megan Hildebrand	Deborah Vance	How men communicate commitment: A qualitative study
Elyse Kruzel	Deborah Vance	Communicating with parents: A qualitative study of college students
Catherine Mills	Deborah Vance	College students' motives for Facebook involvement

Student	Faculty Collaborator	Title
COMMUNICATION & CINEMA *(continued)*		
Kristen Nelson	Deborah Vance	A narrative analysis of college culture
Lanni Reisinger	Deborah Vance	Experiences of deaf graduate students at a predominantly hearing college
K.R. Schultz	Deborah Vance	What messages motivate the members of the McDaniel College LaCrosse Team
Garrett Sowers	Deborah Vance	Cover me while I move: Camaraderie among soldiers who have developed close bonds while deployed
Mark Steiding	Deborah Vance	Rushing: Why do students join exclusive groups?
Kandice Wilson	Deborah Vance	Reactions to mental health self-disclosures
April Ymbert	Deborah Vance	My Bitches!: Coping with stereotypes in the local music industry
ECONOMICS & BUSINESS ADMINISTRATION		
Sally Grace Alexandra Moreland Wendy Dunstan Andrew Rauch	Kevin McIntyre	An Assessment of Current Economic Conditions and A Proposal for Economic Policy
Wendy Dunstan	John Olsh	The Ethics and Ethnics of the Anthracite Coal Strike of 1902
EDUCATION		
Sarah Anderson	Sharon Craig	Early Literacy Case Study
Elizabeth Brown	Sharon Craig	Early Literacy Case Study
Emily Creighton	Sharon Craig	Early Literacy Case Study
Karen Huy-Sasajima	Sharon Craig	Early Literacy Case Study
Courtney Jackson	Sharon Craig	Early Literacy Case Study
Alexandra McCormick	Sharon Craig	Early Literacy Case Study
Rhonda Martinez	Sharon Craig	Early Literacy Case Study
Catherine Mills	Sharon Craig	Early Literacy Case Study
Amelia Reininger	Sharon Craig	Early Literacy Case Study

Student	Faculty Collaborator	Title
EDUCATION *(continued)*		
Ashleigh Rizzo	Sharon Craig	Early Literacy Case Study
Jennifer Thompson	Sharon Craig	Early Literacy Case Study
Angela Vaughan	Sharon Craig	Early Literacy Case Study
Tyler Buisch	Debra Miller	Impact on Student Learning in Music – Elementary Flute Group
Mathew Cahill	Debra Miller	Impact on Student Learning in Physical Education – Elementary Volleyball Unit
Lauren Cochran	Debra Miller	Impact on Student Learning in Art – Elementary Self-Portraits Unit
Valerie Hudson	Debra Miller	Impact on Student Learning in History – Middle School Westward Expansion Unit
Ian Proctor	Debra Miller	Impact on Student Learning in Physical Education – Elementary Gymnastics Unit
Michael Weick	Debra Miller	Impact on Student Learning in Physical Education- Elementary Basketball Unit
Whitney Younghans	Debra Miller	Impact on Student Learning in Physical Education – Elementary Olympics Unit
Andy Hubner	Francis Fennell	Master's thesis
Andrea Mathias	Simeon Schlossberg	Juvenile Detentions, Past Present Future
ENGLISH		
Melissa Atkinson	Rebecca Carpenter	Male Mothers and Pregnant Kings: Wrestling with the Gender Binary in Texts by Russ, Piercy, and LeGuin
Katie Bonaduce	Rebecca Carpenter	Searching for Somewhere to Belong: Conformity in *A Clockwork Orange* and *Brave New World*
Emma Joyce	Rebecca Carpenter	Places Man Was Not Meant to Go: Lovecraft, Masculinity, and the Exploration Narrative
Sam Lucas	Rebecca Carpenter	If the Shrew Fits, Must She Wear It?" Maegan Reinhardt. "Who Needs Women? Homosociality in Tennyson's Greek Myth Adaptations

Student	Faculty Collaborator	Title
ENGLISH *(continued)*		
Katie Ridgway	Rebecca Carpenter	'Toujours Purs': The Dark Mark of Victorianism in Lord Voldemort's England
Ellen Spielman	Rebecca Carpenter	*Great Expectations*: The Renewal of Genesis
Angela Baldwin	Pamela Regis	Married Women in the Regionalist Fiction of Freeman, Chopin, and Hurston: Conformity and Iconoclasm
Jessica Black	Pamela Regis	S/M Hierarchy: The Female Masochist on Top
Kara Constantine	Pamela Regis	'Some revelation is at hand': Didion, Dillard, the Sage, and the Quest for Truth
Brittany Cooper	Kate Dobson	Driven: Memoir and Female Sexual Identity
Peter Corrado	Pamela Regis	Hip-Hop in Italo Calvino's Next Millennium
Casey Crough	Pamela Regis	The Deadliest Monster is a Woman with Power: The Transformed Role of Women in Stephen King's Horror Fiction
Elizabeth Ennis	Pamela Regis	From Love to Marriage: Marie de France, Marguerite of Navarre, and Edith Wharton
Roxanne Fleischer	Pamela Regis	Sirens, Goddesses, and Baseball
Fernando Gomes	Pamela Regis	*Mi Vida Latinomaericano*
Rachel Hartig	Pamela Regis	Reclaiming Persephone: The Myth of Demeter and Persephone in *A Room with a View*, *The Bluest Eye*, and *The Blind Assassin*
Anne Hebert	Pamela Regis	Food in Laura Ingalls Wilder's *Little House* Books
Courtney Logsdon	Pamela Regis	Rowling's Magic: *Harry Potter*, Christianity and the Power of Love
Naomi Raphael	Pamela Regis	Grooving with Tom Wolfe and Joan Didion: A Comparative Rhetorical Exploration
Maxwell Robinson	Pamela Regis	Blood and Bones, Muck and Monsters: King and Moore's Horror Resurrection

Student	Faculty Collaborator	Title
ENGLISH *(continued)*		
Andrew Tucker	Pamela Regis	The Hero We Deserve, Not the Hero We Need to Be: Grant Morrison's Batman as Archetypal Hero
Andrew Velnoskey	Pamela Regis	Blake's *Milton* in the Epic Tradition
Abby Walker	Pamela Regis	Tempted by the Fruit of Another: Adultery in Victorian and Neo-Victorian Literature
Elizabeth Ennis Joe Ottomano	LeRoy Panek Mary Bendel-Simso	The Westminster Detective Agency
Danny Hughes Kimberly Williams	Robert Kachur	Homophobia in Poe's "William Wilson"
ENVIRONMENTAL POLICY & SCIENCE		
Sean Allen	Scott Hardy Kevin Harrison	The Effect of Water Pricing Reform on Water Demand in Westminster, MD
Mike Bellaus	Scott Hardy Kevin Harrison	Overpopulation Not So Deer to New Jersey
Kayla Croghan	Scott Hardy Kevin Harrison	Sustainable Policy Approaches: A View from the 50 States
Rachel Diamond	Scott Hardy Kevin Harrison	The Impact of Your Big Mac: An Environmental Analysis of Fast Food Packaging
Kay Dixon	Scott Hardy Kevin Harrison	The Effects of Environmental Factors on Foraminiferal Assemblages
Michael Ensor	Scott Hardy Kevin Harrison	Understanding the Great Ocean Conveyor
Sara Gambolati	Scott Hardy Kevin Harrison	Water Users Gone Wile: College Edition
Stephen Gomez	Scott Hardy Kevin Harrison	Stopping Drugs with Ozone
Chris Gore	Scott Hardy Kevin Harrison	Government! Stakeholders! and Oysters! OH MY!!!
Ryan Graves	Scott Hardy Kevin Harrison	Blue Crab Size vs Salinity levels of the Chesapeake

Student	Faculty Collaborator	Title
ENVIRONMENTAL POLICY & SCIENCE *(continued)*		
Sarah Hanlon	Scott Hardy Kevin Harrison	Interstate Nutrient Trading Program: Save the Chesapeake Bay
Austin Herr	Scott Hardy Kevin Harrison	Finding the Missing Sink
Andy House	Scott Hardy Kevin Harrison	Leave Only Footprints
Adam Hudson	Scott Hardy Kevin Harrison	Nutrient availability in roof runoff of Camp Hashawha/Bear Branch Environmental Center
Ellen Larson	Scott Hardy Kevin Harrison	College Students and Recycling: A Likely Hookup?
Zack Luber	Scott Hardy Kevin Harrison	Can Communities Heal the Brownfields?
Lin Oo	Scott Hardy Kevin Harrison	Tigers Protecting People Protecting Tigers
Chris Riordon	Scott Hardy Kevin Harrison	The Real World: Eastern Shore, MD
Brian Rosato	Scott Hardy Kevin Harrison	Why We Froze
Nicholas Wilbur	Scott Hardy Kevin Harrison	Extraterrestrial-Cause for Cretaceous-Tertiary Extinction
EXERCISE SCIENCE & PHYSICAL EDUCATION		
April Derbak	Richard Carpenter	Evidence of Depression in Injured Athletes
Melanie Gladden	Richard Carpenter	The Rationale for Sport Specialization in Female College Athletes
Mary Grace Gonzalez	Richard Carpenter	Audience Effects on Performance
William Hopkins	Richard Carpenter	Reaction Time: Are Athletes Really Faster Than Non-Athletes
Maggie Kirwan	Richard Carpenter	Social Aspects of Sport Within the Deaf Community
Benjamin Knight	Richard Carpenter	A Comparison of Three Different Types of Vertical Jump Testing

Student	Faculty Collaborator	Title
EXERCISE SCIENCE & PHYSICAL EDUCATION *(continued)*		
Jessica Largent	Richard Carpenter	Attitudes Toward the Effect of Sex Upon Performance Among NCAA Division III Athletes
Matthew Cahill	Andria Hoffman	Effect on Student Achievement in a Tsegball Unit
Thomas Develin	Andria Hoffman	Student Achievement in a Golf Unit
Ramon Hart	Andria Hoffman	Student Achievement within an Archery Unit
Amanda Pickard	Andria Hoffman	Injuries Related to Exergaming
Ian Proctor	Andria Hoffman	Student Achievement in Flag Football
Stephanie Serbun	Andria Hoffman	Cardiovascular Unit
Michael Weick	Andria Hoffman	Student Achievement in Powerlifting
Whitney Younghans	Andria Hoffman	The Effect on Student Achievement Throughout A Volleyball Unit
Christopher Zimmerman	Andria Hoffman	Effect on Student Achievement During A Flag Football Unit
Emily Ardolino	Steve McCole	Quadriceps and Hamstring Muscle Strength: Is There Full Recovery after Rehabilitation of an Injured ACL of the Knee?
Patrick Barnes	Steve McCole	The Effect of Handrail Support During Graded Treadmill Walking on Heart Rate
Christopher Bosco	Steve McCole	Comparing Reaction Time to a Visual Stimulus in Brown and Blue Eyed Individuals
Nicole Cristy	Steve McCole	Validity of Heart Rate Monitoring by EKG's and Wristwatches
Holly Debaugh	Steve McCole	A Comparison of Ratings of Perceived Exertion during Exercise Using Upper and Lower Extremities Versus Using Only Lower Extremities
Allison Donnelly	Steve McCole	Reaction Time and Gender: Is There a Difference?

Student	Faculty Collaborator	Title
EXERCISE SCIENCE & PHYSICAL EDUCATION *(continued)*		
Gerard Elligson	Steve McCole	Blood Pressure Response to Isokinetic Exercise
Kyle Hadden	Steve McCole	Core Strength Improvements in Sit-Ups Versus Core Stabilization Exercises
Leanne Hollinger	Steve McCole	Dominant Versus Non-Dominant Hand Reaction Time in Student Athletes
Pamela Knopp	Steve McCole	Reaction Time: The Effects of Texting on the Auditory and Visual Response of McDaniel College Students
Jessica Minacapelli	Steve McCole	Comparing Results of Percent Body Fat from the ElectroLipoGraph III to Hydrostatic Weighing
Kaitlin Reynolds	Steve McCole	Exercise Metabolism: A Comparison of Caloric Expenditure in Lower Extremity Exercise Versus Combined Upper and Lower Extremity Exercise
Alyssa Romasco	Steve McCole	Quadriceps and Hamstring Muscle Strength: Is Fatigue Greater in the Limb of a Torn ACL after Rehabilitation and Return to Physical Activity?
Valerie Saucier	Steve McCole	Are Heart Rate Monitors on Exercise Equipment as Accurate as an Electrocardiogram (EKG)?
Melanie Armstrong	Jennifer McKenzie	Aerobic Levels After a 3 Week Jogging Class
Tim Hall	Jennifer McKenzie	Correlation Between Weight Cutting and Muscular Strength in Wrestlers
Doug Loftus	Jennifer McKenzie	The Effect of Strength Training on Strength and the Dose Response of Lifting
Sarah McKeown	Jennifer McKenzie	Does Yogalates Class Improve Student Flexibility
Rebecca Parks	David Petrie	The Effect of Compression Socks on Heart Rate and Blood Pressure During Exercise
Nicole Pelletier	Rick Carpenter Jennifer McKenzie David Petrie	The Effect of Corrective Exercise Progression Implementation Upon Functional Movement Screen Scores Among NCAA Division III Athletes

Student	Faculty Collaborator	Title
FOREIGN LANGUAGES		
Theresa Stromberg	Annette Budzinski-Luftig	German-English Translation of subtitles for "Am Ende kommen Touristen"
David Arnold Matthew Clise Nicholas Levitsky Cara Loraw	Annette Budzinski-Luftig	Analysis of contemporary German films and short prose
Nadine Heron	Martine Motard-Noar	*Le Soldat américain en France*, translation from the French into English of a WWI book for American soldiers in France
Claire Turpel	Martine Motard-Noar	Translation from the French into English of 3 articles published in *French Cultural Studies*
HISTORY		
Sarah Ballew	Donna Evergates	"Deeds Not Words" The Women's Suffrage Movement in England
Alec Sandler	Donna Evergates	The Conception of Civil Rights and Political Power in Republican Rome through the Eyes of Cicero
Victoria Childs	Donna Evergates Stephen Feeley	Dorothy Elderdice: Journey for Independence
Jasmine Garcia	Theodore Evergates Stephen Feeley	Slavery in America through the Eyes of a Stranger: A Comparative Analysis of Charles Dickens and Alexis de Tocqueville
Paul Seegren	Theodore Evergates	Scholasticism in the Twelfth Century
Ben Walter-Range	Theodore Evergates	How the Irish Viewed the British and Themselves
Antonio Bonaddio	Stephen Feeley	The Joining Efforts: Abolitionism in the 1800s
Brian Dooley	Stephen Feeley	First-Hand Account of Battle: A Look into the Motives of Civil War Soldiers
Matthew Dungan-Abney	Stephen Feeley	The Noble Lie: Republican Ideology and Popular Politics in Late 18th Century Virginia
Adam Misamore	Stephen Feeley	The Border between Reality and Fiction: Changing Perspectives on Colonial Piracy

Student	Faculty Collaborator	Title
HISTORY *(continued)*		
Jonathan Marsh	Stephen Feeley	The Cartridge Box
Anna Moffet	Stephen Feeley	The Changing Power of Zulu Chiefs: Changing Missionary Perceptions in Natal, 1835-1838
Christopher Molinaro	Stephen Feeley	The History of Slave Religion over the Past Century
Tommy Palmer	Stephen Feeley	Let us Fight like Englishmen: Anti-Indian Sentiment in Colonial North America
Rachel Sanchez	Stephen Feeley	Butchers or Heroes: The Truth about Civil War Surgeons and the Medical Battlefield
Ashley French	Paul Miller	"Pot Pol's Cambodia" A Communist Attack on the Family
Tyler Bilohlavek	Bryn Upton	Huey Long: Louisiana's Savior
Frannia Bryant	Bryn Upton	African American Education in Charles County, Maryland; Past and Present
Valerie Hudson	Bryn Upton	The 1968 Democratic Convention: Rights Denied and Lines Crossed
Jennifer Thompson	Bryn Upton	A War for all Ages: Memory and Dissent in Carroll County (1960s)
Andrew Aceituno	Jakub Zejmis Paul Miller	Reinterpretion of the Case of War on the Eastern Front
Marzak Ahmed	Jakub Zejmis	The Evolution of Terror: The Interpretation of the Great Purges
Andrew Velnosky	Jakub Zejmis Paul Miller	A New Kind of Famine: Lord Curzon and the Indian Famine of 1899-1900
William Yeo	Jakub Zejmis	Alexander Kerensky: Competent Leader and Victim of Circumstance
MATHEMATICS & COMPUTER SCIENCE		
Elizabeth McCaslin Feng Wang	Spencer Hamblen	Finding Abundancy Bounds
Michael Donders	Sara Miner More Pavel Naumov	Independence of Secrets on Directed Graphs

Student	Faculty Collaborator	Title
MATHEMATICS & COMPUTER SCIENCE *(continued)*		
Benjamin Sapp	Sara Miner More Pavel Naumov	Concurrency Semantics for Logics of Information Flow
Brittany Nichols Benjamin Sapp Andrew Yang	Sara Miner More Pavel Naumov	Formal Analysis of Information Flow in Multi-agent Systems
Benjamin Sapp Robert Kelvey	Sara Miner More Pavel Naumov	Independence and Functional Dependence Relations on Secrets
Andrea Mills Benjamin Sapp	Sara Miner More Pavel Naumov	Functional Dependence between Sets of Secrets
Brittany Nichols Andrew Yang	Sara Miner More Pavel Naumov	Ternary Dependency Relation between Secrets
MUSIC		
Sarah Huffer	Robin Armstrong	Teaching African Music to Middle-School Ensembles
Sabrina Clarke	Margaret Boudreaux	"Fair are the Flowers" (preparation of original choral composition for public performance)
Joshua Vyskocil	Margaret Boudreaux	"Come, Come" (preparation of original choral composition for public performance)
PHILOSOPHY & RELIGIOUS STUDIES		
Tiffany Currie-Miller	Gregory Alles	A Beginning Ethnography of the Islamic Society of Carroll County
Mairead Hunter-Herbers	Gregory Alles	Baptists and Keeping the Faith: Religious Responses to Hurricane Katrina
Lu Si-Phong	Gregory Alles	Bring Me to Light: Aung San Suu Kyi's Buddhist Democracy
Ben Keating	Peter Bradley	On the Issue of Censorship of Art: A Proposal
Lin Sun Oo Devon Brackbill Alex Lehmer	Peter Bradley	Teaching Modeling in Critical Thinking

Student	Faculty Collaborator	Title
PHILOSOPHY & RELIGIOUS STUDIES *(continued)*		
Lin Sun Oo	Peter Bradley	Variation of Gaia Hypothesis: Applying geo-physiology as heuristics and establishing a non teleological and optimizing approach towards Gaia
Samuel Paxton	Peter Bradley	The Permissibility of Abortion
PHYSICS		
Dan Jones	Apollo Mian	Propagation of a Gaussian beam through a circular aperture
Eric Lemmon	Apollo Mian	Approximation for the Airy disc diffraction pattern using Gaussian decomposition
Gordon Webb	Apollo Mian	An investigation of heavy metal oxide glasses using a pump-probe thermal lensing technique
Dan Crutchfield	Bill Pagonis	Simulations of the lifetimes measured in TR-OSL experiments in quartz
Andrea Mills	Bill Pagonis	Modeling of TR-OSL experiments in feldspars
John Sullivan	Bill Pagonis	Simulations of the lifetimes measured in TR-OSL experiments in quartz
Carly Weil	Bill Pagonis	Modeling of TR-OSL experiments in feldspars
POLITICAL SCIENCE & INTERNATIONAL STUDIES		
Lindsey M. Browning	Christianna Leahy	Policy Analysis: An Alternative Approach to the Ban on Flavorings in Cigarettes
Jessica Curtis	Christianna Leahy	The International Criminal Court/Why the United States must Join
Sarah Dunne	Christianna Leahy	Human Rights and Self-Determination and the Conflict over Cyprus
Jetonne Ellis	Christianna Leahy	The Death Penalty and Discrimination
Matt Emery	Christianna Leahy	Estonia and Kyrgyzstan Human Rights and Human Wrongs: A Comparison
Laura Garrison	Christianna Leahy	The Zapatista Revolution and Indigenous Rights

Student	Faculty Collaborator	Title
POLITICAL SCIENCE & INTERNATIONAL STUDIES *(continued)*		
Rachel Lopez	Christianna Leahy	The Role of Women in the Shining Path Revolutionary Struggle in Peru
Theresa Stromberg	Christianna Leahy	German Immigration and the Rights of Immigrants from Exemplary to Troubling
Eric Shifflet	Christianna Leahy	Nation Building and Human Rights in Afghanistan
Lauren Thomas	Christianna Leahy	A Serious Revision of US Foreign Aid Policy
Claire Turpel	Christianna Leahy	Promotion and Protection of Human Rights in Afghanistan
Eleanor Nagel	Debora Johnson Ross	The State of Women in Africa and the Importance of a Culturally-based Feminist Perspective and Approach to International Development efforts
Nima Conte	Charles Neal	Immigration Policies in the United States of America
Scott Edmonds	Charles Neal	Mercenaries: "New Trend for an Old Idea"
Alex Ryan	Charles Neal	Will Terrorists Utilize CBN Weapons to Spread Their Message of Error?
Saum Sami	Charles Neal	Iranian Revolution of 1979: Success or Failure?
Esmond Sekgwa	Charles Neal Debora Johnson-Ross	China: Its Economy, Military, Politics, and Culture – Sign of a rising Superpower?
Megan Johnston	Herb Smith	The Preventive Services Focus Program
Aeliya K. Kazmi	Herb Smith	Immigration Reform in the United States
Jamie Latham	Herb Smith	The United States and North Korea: Democracy, Diplomacy, Deterrence, and Dollars
Jacob Lopes	Herb Smith	Inequality of Educational Opportunities in American Public Schools: The History of Federal Policy Inadequacy and the Path for Improved Federal Action
Kristin Menzies	Herb Smith	The Right to Indirectly Vote: How Americans allow Anti-Democratic Elections in a Democratic Nation

Student	Faculty Collaborator	Title
PSYCHOLOGY		
Brett Myers	Jack Arnal	Dialect Perception and Attitudinal Judgments
Sarah Miller Kara Schultheis Megan Roach	Holly Chalk	Body Image and Alcohol Use as Predictors of Obligatory Exercise in Undergraduates
Anthony Gordon Rachel Kenney Sarah Mullen	Holly Chalk	Child Abuse Needs Assessment
Raquel Melendez Steve Sauve Cindy Sordo Rebecca Tilyou	Holly Chalk	The Effects of Social Support, Cognitive Appraisals, Acceptance Coping, and Spousal Relationships on Mental Health Outcomes in Patients with Multiple Sclerosis
Jessica Dunn	Holly Chalk Stephanie Madsen	Parental Management of Adolescent Romantic Relationships in a Low-Income Sample
Molly Barker Kaitlin Cutter Jessica Dunn Rebecca Tilyou	Stephanie Madsen	Romantic Relationships in Adolescence and Emerging Adulthood
Mary Crocamo Raquel Melendez Rebecca Tilyou	Paul Mazeroff	Acupuncture and Its Effect on Test Anxiety
Christina Paluskiewicz Raquel Melendez Sydney Thro	Paul Mazeroff	Effect of Body Image on Response to Visual Food Stimuli
Molly Barker Meghan Elfert Raquel Melendez Kelly Scheler Douglas Rivera	Margaret McDevitt	Conditioned Reinforcement in Tandem and Chain Schedules," "Generalization of Changeover Responses to Probe Test Trials," and "Transitive Inference in Pigeons
Nancy Franklin Adina Oved	Wendy Morris	Glorified Conceptions of Married People and the Stigmatization of Singles
Brittany Kemp	Wendy Morris	The Impact of Perceived Control and Relationship Satisfaction on Perceptions of Singles
Julie Thommen Tiara Tirasawasdichai	Madeline Rhodes	The Effects of Seizure Activity on Behavioral and Neuroendocrine Measures in Male Rats

Student	Faculty Collaborator	Title
PSYCHOLOGY *(continued)*		
Lydia Hubble Tiara Tirasawasdichai Kim Trang Marlene Vasquez	Madeline Rhodes	The Effects of the Anti-epileptic Drug, Phenytoin, on Anxiety, Cognitive, and Reproductive Behavior of Female Rats
Marlene Vasquez	Madeline Rhodes	Prenatal Exposure to Anti-epileptic Drugs Effects on Behavior of Male and Female Rats in Adulthood
SOCIAL WORK		
Julie Busch Brittany Libernini Maria Mackall Olivia Sykes	Jim Kunz	Older Adults and Prescription Drugs: Insurance Coverage and Affordability
Hannah Elovich Marissa Graff Jaclyn Gulack Kimberly Schaub	Jim Kunz	Not By Bread Alone: Living Arrangements and Eating Habits
Amanda Forbes Sarah Pope Rachel Robin	Jim Kunz	Marital Status and Social Isolation Among Older Adults in Carroll County
Kristen Arbaugh	Cathy Orzolek-Kronner	Where Does Temperament Come From? Genes Vs. Genograms
Brittany Libernini	Cathy Orzolek-Kronner	Access Carroll and the Persons Served
Rebecca Odegaard	Cathy Orzolek-Kronner	Social Responsibility and Malaria in Africa
Jessica Schissler	Cathy Orzolek-Kronner	Social Influences and Behavioral Disturbances in Children
Hannah Elovich Amanda Forbes Brittany Libernini Maria Mackall Rachel Robin David Stanker Olivia Sykes	Michelle Young	The Gerontological Oral History Project in conjunction with Carroll County Media Center
Marissa Graff	Michelle Young	Experiences of Hearing Parents Raising Deaf Children
Brittany Libernini	Michelle Young	The Human-Animal Bond and its Effects in Animal Focused Therapy

Student	Faculty Collaborator	Title
SOCIAL WORK *(continued)*		
Rachel Robin	Michelle Young	The Impact of Sociocultural Factors on the Development of Anorexia Nervosa
David Stanker	Michelle Young	How Attention Deficit Hyperactivity Disorder Affects Substance Abuse in Adolescents
Olivia Sykes	Michelle Young	Factors Effecting Remarriage and Cohabitation in Older Americans
SOCIOLOGY		
Jocelyn McKinley	Linda Semu	"Invisible Man Looks Like Me: A Campus Diversity Survey"
Melissa Atkinson	Sara Raley	Who's Got the Kids? How Mothers and Fathers Adjust Work Schedules to Accommodate Childrearing
Molly Barker	Sara Raley	The Impact of Gender Role Attitudes on Romantic Relationship Quality and Satisfaction: Does Sex Matter?
Allison Marriott	Sara Raley	"Facing Facebook"
Catherine Scyzbor	Sara Raley	The Leisure Surplus of Fathers in Dual-Earner and Single-Parent Families
THEATRE ARTS		
Colleen Alford Chris Molloy	Ron Miller	Directing and conducting three performances in Playback Theatre
Colleen Alford Brady Eisenberg Michelle Hierstetter Julia Williams	Nick de Pinto Josh Selzer Elizabeth van den Berg	Prepared scenes and monologues for the Irene Ryan Scholarship Awards in conjunction with the Kennedy Center American College Theatre Festival
Katie Ridgway Julia Williams	Elizabeth van den Berg	Planning and preparing for the Region II Kennedy Center American College Theatre Festival at Indiana University of Pennsylvania