

*The Eighth Annual*



FRIDAY, 3 APRIL 2009  
PETTENGILL HALL  
PETTIGREW HALL ~ OLIN ARTS CENTER  
SCHAEFFER THEATRE  
BATES COLLEGE

## Poster Presenters

Note: The number following each title indicates the location of the poster in the session.

### 2:45 - 4:00 PM

### Poster Session I

Gabriela Anhalzer '09	Using Landsat Images to Assess Tropical Deforestation (16)
David Asanuma '09	Arsenic-induced HK11 Protein Expression in Kidneys of Mice (39)
Nyan Aung '09	Galactic Dark Matter (23)
Jonathan Brennan '09	The Role of Scaffolds in Bone and Tissue Repair Using Human Mesenchymal Stem Cells (42)
Kelsey Clements '09	Identification of Transcription Starts Sites of Ribosomal Protein-Encoding Genes in <i>Escherichia coli</i> , <i>Borrelia burgdorferi</i> , and <i>Synechococcus sp.</i> WH8102 (44)
Elizabeth Dengler '10	Spanning the Colorado Trail with ArcGIS (18)
Kate Doria '10	Where Do the Children Play? Mapping Childhood Outdoor Play Areas in Lewiston, ME (8)
Danica Doroski '10	Changes in Vegetation Type and Vegetation Cover in Harvest and Nonharvest Plots, Madawaska, ME (11)
Timothy Gay '09	GIS Approach to Eminent Domain (6)
Hilary Ginsburg '09	The Societal and Scientific Aspects of Lead Exposure and the Role of Metallothioneine-1 as a Potential Protector Against Human Lead Toxicity (48)
Emily Grant '09	MRSA in Local Horses (36)
Amelia Hagen-Dillon '09	Temporal Change in Algal and Nutrient Abundance in Seven Lakes in South-Central Maine in Fall 2008 (19)
Amelia Hagen-Dillon '09	Possible Influence of Land Use on Water Nutrients and Trophic Status of Lake Auburn, ME (20)
Emma Halas-O'Connor '09	Creating YADA in Lewiston, Maine: A History of Rising Youth Civic Engagement in American Communities (1)
Alexander Hernandez '09	Changes in <i>Salmonid</i> and Char Species Distribution in Southern Maine Waterways 1800s to Present (14)
Samuel Kaplan '09	Market Analysis: Globalization of American Professional Sports toward China (4)
Brian Klein '09	Antibacterial Properties of Tea on Oral Pathogens (41)
Christina Kratzman '11	The Evolution of Maine's Population Documented with GIS Models (9)
Molly Ladd '09	Water Stress Responses in <i>Pinus Edulis</i> and <i>Juniperus Monosperma</i> , Co-dominant Species in the Los Piños Mountain Woodlands, NM (28)
Michelle Ladonne '09	The Naxi Culture: A Paradise Lost or Regained by Ethnic Tourism? (3)
Joshua Lake '09	Senior Thesis on Bates Housing (2)

Jennifer Lindelof '12	Prediction of Shoreline Variation Due to Erosion from Camp Ellis, ME, to Pine Point, ME, using a GIS Model (15)
Jennifer Marino '09	Raman Spectroscopy and Atomic Force Microscopy (46)
Caitlin McMahon '09	Long- and Short-Term Effects of Baitworm Digging on the Feeding Behavior of Ring-Billed Gulls ( <i>Larus delawarensis</i> ) on Mudflats in Maine (25)
Anna Meader '09	Plasmonics and Developing Nanotechnology (45)
Kristen Meyers '09	Exercise Performance in Moderate Hypoxia in Rats with Impaired Carotid Bodies (32)
Emily Morrill '09	The Genetics of Autism Spectrum Disorders: Investigating ERK1 Dosage Effects (34)
Lucy Neely '09	Mapping Food Security in Lewiston Using GIS (7)
Michael Pickoff '09	Evaluating the History of Land Use Change during the Twentieth Century in Phippsburg, ME (12)
Eric Pier '09	Synthesis and Characterization of Catalysts for the Conversion of Wood Waste into Fuels (47)
Laura Poppick '10	Potential Tidal Power Regions in the Gulf of Maine (10)
Brian Quarrier '09	Land-Use History's Effect on Sediment Nutrients in Pleasant Lake, Casco, ME (5)
Adam Ratner '09	Assessing Learning and Memory of a Color Sequence in Zebrafish (30)
Elizabeth Rogers '09	Black-legged Tick ( <i>Ixodes scapularis</i> ) Occurrence, Burdens of Small Mammals, and Infection Rates by <i>Borrelia burgdorferi</i> in Southwestern Maine (24)
Daniel Roop '10	Mapping the Impact from Volcanic Activity at Yellowstone National Park (17)
Kimberly Russell '09	Lead Binding in Metallothionein-3 and Other Cysteine-rich Compounds (49)
Erin Sienkiewicz '09	The Effect of Hyperbaric Oxygen Therapy on Cytomegalovirus (35)
Benjamin Smeltzer '10	Quantum Optics (21)
Kristina Stafstrom '09	Identifying the NLS of RSK2 (33)
Susannah Stone '09	Physical and Gene Expression Effects of Developmental Arsenic Exposure on the Induction of Type II Diabetes (40)
Nicholas Swerdlow '09	The Role of Transcript Length in the Translational Regulation of RpoS in <i>Borrelia burgdorferi</i> (43)
Gabriella Vannoni '09	A Preliminary Study of Learning by Secondary School Students Using Hands-on versus Computer Simulation Laboratory Methods (37)
Leslie Wade '09	Electromagnetically Induced Transparency in Rubidium Vapor (22)
Michael Watson '09	The Aural Study of Nocturnal Bird Migration over a Fine Spacial Scale (29)

Michael Watson '09	The Aural Study of Nocturnal Bird Migration over a Fine Spacial Scale (29)
C. Challen Willemsen '09	Possible Habitats for Orchid Species in Maine Using GIS Models (13)
Clark Winchell '09	Effects of Rising CO <sub>2</sub> Levels on the Germination of Asiatic Bittersweet ( <i>Celastrus orbiculata</i> ) (27)
Irene Wood '09	Creating a HPV Educational Protocol for Young Women at the Transitional Living Program, New Beginnings (38)
Kristen Young '09	Effects of Perinatal Hyperoxia on Hypoxic Ventilatory Responses in Mice (31)
Alexia Zhang '10	Growth Rate and Long-Term Abundance Patterns of the Bloodworm, <i>Glycera dibranchiata</i> , Mid-Coast Maine (26)

## Poster Presenters

*Note: The number following each title indicates the location of the poster in the session.*

### 4:30 - 5:45 PM

### Poster Session II

Jessica Adelman '09	Censoring Culture: A Qualitative Study of Cultural Conflict in the Classroom (12)
Valerie Beckwith '09, Jaclyn Orloff '09, and Shannon Penney '09	The Association between Testosterone and the "See the Ball" Effect (20)
Brianna Belanger '09	The Social and Economic Impacts of Slot Machines in Maine: A Case Study on Hollywood Slots in Bangor, ME (3)
Christopher Berry '09	Focus, Flow, and Motivational States (37)
Erin Bliss '09	Experiences with Patient-Centered Education during Pregnancy and Childbirth (26)
Erin Bonney '09	Growing Up Somali-American: An Exploration of Somali Immigrant Female Adolescent Identity and Aspirations (28)
Ryan Boyer '09	The Emotional Content and Arousing Quality of Music as Mediators in Perceived Arousal and Valence of Affective Visual Stimuli (17)
Cavan Boyle '09	An Investigation of Automatic-Processing: Extracting Gender and Race Information from Faces Using the Task-Choice Procedure (41)
Priya Brandes '09	Can Music Influence Moral Reasoning? (43)
David Brustlin '09	Self-Complexity and Divorce (32)
Katherine Brustowicz '09	The Psychological and Emotional Responses of Division III Athletes to Injury (18)
Annie Carlton '10, Harita Dharaneeswaran '10, Emma Posner '11, Scott Sinisgalli '10, and Gabriella Vannoni '09	Barriers to Vitamin D Treatment in the Somali Community of Lewiston, ME (29)
Hui Man Christine Chiu '09	Holding Back Your Relationship Because You Care Too Much About It? How Delayed Responses in Text Messages Affect Relationships (14)
Leah Citrin '09	Determining the Function of Aggressive Behaviors: A Case Study (30)
Stephanie Connors '09 and Hannah Giasson '09	Testing the Effectiveness of Motivational Interviewing as a Primary Weight Reduction Strategy for Obese Cardiac Patients (19)
Danielle Cormier '09	Media Influence on Unhealthy Exercise (42)
Harita Dharaneeswaran '10, Annie Carlton '10, Emma Posner '11, Scott Sinisgalli '10, and Gabriella Vannoni '09	Barriers to Vitamin D Treatment in the Somali Community of Lewiston, ME (29)
Naomi Dimon '09	The Relationship between Abnormalities of the Anterior Cingulate Gyrus and the Symptomatology of Bipolar Disorder (45)

Lisa D'Oyen '09	The Coming Out Process and Resiliency Outcomes in Jamaican Gays: An Exploratory Study (34)
Allison Earon '09	Utilitarian Moral Reasoning Style in Psychopathy and Alexithymia (46)
Julie Farugia '09	Emotional Reactivity to Negatively Valenced Stimuli in Alexithymic and Schizotypic Individuals: A Multi-Analysis Approach (44)
Miranda Gallo '09	Characterization of Novel GluR5/6/7-immunoreactive Cell Group in the Buccal Ganglia of the Pond Snail <i>Helisoma trivolvis</i> (47)
Megan Gentile '09	Think You're Stressed? Your Dog Probably Is Too: The Emotional Connection between Owners and Their Dogs (24)
Hannah Giasson '09 and Stephanie Connors '09	Testing the Effectiveness of Motivational Interviewing as a Primary Weight Reduction Strategy for Obese Cardiac Patients (19)
Sarah Jordan '09	From "Not Sure" to "Positive:" Jurors' Perceptions of Eyewitnesses' Confidence Inflation (39)
Christina Knobel '09	Does Primary Care Make People Healthier? (4)
Christopher Knox '09	The Effects of Aesthetic Visual Design Symmetry on Anxiety (40)
Julie Libin '09	The Effect of Exposure to Forms of Breast Cancer Media on College Students' Perception of Body Image (21)
Rachael Lichter '09	Nonmedical Prescription Drug Use in College Recreational Settings: Prevalence, Quantities, and Dosages (16)
Elissa Maunus '09	Effects of Chlordiazepoxide on Animal Models of Anxiety (49)
Sabrina Miess '09	Anti-Tobacco Social Marketing Campaign: Meeting the Needs of Young Adults (25)
Julie Miller-Hendry '09	A Service-Learning Experience at the Cancer Resource Center at St. Mary's Regional Medical Center (13)
Dylan Mogk '09	Evolutionary Algorithms: An Introduction to Multi-Objective Problem Solving (2)
Carolyn Nye '09	Involvement of Prefrontal Cortex and Dorsal Hippocampus in Fear Conditioning in a Rodent Model (48)
Kelley O'Connor '09	Predictors of a Termination of Parental Rights (TPR) (23)
Rachel Ogilive '09	The Effect of a Cognitive Dissonance Intervention on Maladaptive Body Attitudes (15)
Jaclyn Orloff '09, Valerie Beckwith '09, and Shannon Penney '09	The Association between Testosterone and the "See the Ball" Effect (20)
Shannon Penney '09, Valerie Beckwith '09, and Jaclyn Orloff '09	The Association between Testosterone and the "See the Ball" Effect (20)
Erica Perlman-Hensen '09	Medicine, Law, and Physician-Assisted Suicide: Two Arguments in Support of Physician-Assisted Suicide and the Impact of The American Medical System on Its Legalization (11)

Michael Petrick '09	The Political Effects of Migrant Remittances in Latin America (8)
Emma Posner '11, Annie Carlton '10, Harita Dharaneeswaran '10, Scott Sinisgalli '10, and Gabriella Vannoni '09	Barriers to Vitamin D Treatment in the Somali Community of Lewiston, ME (29)
Alexander Rice '09	The Effect of Gender on Sexual Fluidity (35)
Molly Ritner '09	Judging Judicial Selection: The Effect of Judicial Elections on Court Decisions (10)
Sherraine Rodney '09	Is It All Just Black and White? Dehumanization and Its Impact on Implicit Judgments of High and Low Prototypicality Blacks (33)
Ryan Rollo '09	A Method of Determining Enantiomeric Excess Using NMR Spectroscopy (50)
Rachel Salloway '09	Preventive Health Care for Incarcerated Women (9)
Andrew Simon '09	Motivated Self-Perception and Perceived Subjective Temporal Distance in Recall of Autobiographical Memory (38)
Scott Sinisgalli '10, Emma Posner '11, Annie Carlton '10, Harita Dharaneeswaran '10, and Gabriella Vannoni '09	Barriers to Vitamin D Treatment in the Somali Community of Lewiston, ME (29)
Paul Suttiter '09	A State House Divided: The Affects of Legislative Term Limits on the Policymaking Process of the Maine Legislature (7)
Chloe Tennyson '09	Price Discrimination in Car Sales (5)
Dillon Tung '09	Applying Google's Pagerank Algorithm to the Ranking of College Basketball (1)
Gabriella Vannoni '09, Annie Carlton '10, Harita Dharaneeswaran '10, Emma Posner '11, and Scott Sinisgalli '10	Barriers to Vitamin D Treatment in the Somali Community of Lewiston, ME (29)
Maren Vouga '09	<i>Barasho ingriisi</i> : Somali Children Learning English in Head Start (27)
Elise Walsh '09	Analysis of Food Accessibility for Nutritionally At-Risk Single Parent Households that Depend on WIC Vouchers to Obtain Nutritious Food Using an ArcGIS Model (6)
Sheena Washington '09	Fitting into a Jigsaw Puzzle: Minority Students' Perspectives of Bates College (36)
Laura Will '09	Effects of Media Literacy Education on Body Image and Self-Esteem in Adolescent Girls (22)
Molly Wolkin '09	Implicit and Explicit Perceptions Regarding Depression and Bipolar Disorder (31)