

**9th Annual**  
**University of New England College of Arts & Sciences**  
**Arts & Sciences Symposium**

**Sponsored by:** ALPHA CHI NATIONAL HONOR SOCIETY and the CAS DEAN'S OFFICE

(light breakfast and lunch provided)

Wednesday, April 30, 2008

Poster Session - 8am-10am  
in Decary Upper Cafeteria

Oral Presentation Session – 8:00am-6:00pm  
in Sutton Lounge and Decary Cafeteria Function Rooms 1 & 2

**Featuring Honors Thesis Presentations by:**

Hannah Mercer (Psychobiology)  
(12:10-12:50 – Function Rm. 2)

Misty Mallar (Psychology)  
(12:55-1:35 – Function Rm. 2)

Ashlee Robbins (Physiology)  
(12:55-1:35 – Function Rm. 1)

Rebecca Wood (Chemistry)  
(12:55-1:35 – Sutton Lounge)

and a presentation from Dr. Pamela Morgan's Salt Marsh Restoration class  
regarding the UNE Coastal Trail and Salt Marsh Restoration Project  
(12:10-12:50 – Sutton Lounge)

8:00-8:20	<p><b>1 - The Physiology of Cold Exposure</b>  Megan McKenney, Heather Martin, Matthew LaBelle (Biology)  An examination of the reflexes and the cardiovascular and respiratory systems</p>	<p><b>2 – The Physiological Effects of Daily Caffeine Intake</b>  Kaitlin Carroll, Joe Desilets, Charlie Adkins, John Alden (Biology)  Effects of Mountain Dew® consumption on the</p>
8:25-8:45	<p><b>4 – The Effects of Strenuous Exercise on Cognitive Function</b>  Cody Geddes, Scott Tresselt, Ryan Miller, Nate Bisson (Biology)  A study of cognition and reasoning skills</p>	
8:50-9:10	<p><b>7 – Investigating Claims Regarding Commercial Gatorade®</b>  Renee Lefebvre, Jon Duhaime, Brigham McKenney, Kelly Willard (Biology)  A look at fatigue-inducing isometric exercise</p>	
9:15-9:35	<p><b>10 – The Physiological Effects of Red Bull®</b>  Meghan White, Chloe Adams, Dana Bolgen (Biology)  The influence of this energy drink on the cardiovascular, endocrine, and nervous systems</p>	
9:40-10:00	<p><b>13 – The Influence of Auditory Stimuli on Encephalographic Recordings and Other Physiological Parameters in Sleeping vs. Awake Individuals</b>  Jaclyn Hopkins, Angelica Damon, Sherri McKenna (Biology)  A movie as an auditory stimulus</p>	
10:05-10:25	<p><b>16 – Campus “Greening:” Environmental Stewardship at UNE and other Colleges and Universities</b>  Jeff Denoncour (Environmental Studies)  Small- and large-scale examples of “greening” initiatives</p>	
10:30-10:50	<p><b>19 –Aphasia in Individuals with Multiple Sclerosis</b>  Niquita Parker (Biology)  A case study</p>	

10:55-11:15	<p><b>22 – What is Narcolepsy?</b>  Becky Lindquist, Amanda Corriveau (Biology)  The symptoms, causes, and treatments of narcolepsy</p>
11:20-11:40	<p><b>25 – Traumatic Injuries of the Aorta</b>  Amanda Law (Biology)  Causes and treatments of injury</p>
11:45-12:05	<p><b>28 – Evaluating the Saco Bay Estuary and its Potential Use as a Nursery Ground for In-shore Macrofaunal Species</b>  Nathaniel Furey (Biology)  Seasonal variation in macrofaunal composition assessed with multiple field-sampling techniques</p>
12:10-12:50	<p><b>GRADUATE STUDENT PRESENTATION</b>  <b>31 – Post-Traumatic Stress Disorder (PTSD): Development of a Mouse Model and Preliminary Studies of Rats</b>  Jacques Reynolds (Physiology/Pharmacology)</p>
12:55-1:35	<p><b>BIOLOGY HONORS THESIS</b>  <b>34 – Possible Mechanisms of Medication-Overuse Headache</b>  Ashlee Robbins (Physiology)  Effects of chronic opiate use on activation of brainstem cells</p>
1:40-2:00	<p><b>37 – Behavioral Reaction of Budgerigar to other Bird and Predator Calls</b>  Laura Ward (Psychobiology)  A psychobiological study</p>
2:05-2:25	<p><b>40 – Comparing Learning and Memory of Two Fish Species</b></p>

2:30-2:50	<p><b>43 – It’s Not Easy Being Green: Effects of Laundry Detergent on Bait Fish</b> Sara Mills, Amanda Toussaint (Psychobiology) Effects of natural vs. common laundry detergent contact on Shiner (<i>Notropis</i> species) swim speed</p>	<p><b>44 – Avantouinti: Swimming with “Icebergs”</b> Amanda Whiting, Alisha Tonks, Casey Nightingale, Michael Light, Cory Guenette (Biology) Effects of cold exposure on the cardiovascular, muscular, and endocrine systems</p>	
2:55-3:15	<p><b>46 – Effect of Prior Stimulus Exposure on Aggressive Behavior in <i>Betta splendens</i></b> Merri Chaffee (Psychobiology)</p>	<p><b>47 – The Physiological Effects of Startle Stimuli</b> Andrea Pelotte, Kristina Nivus, Stephanie Schmidt, Taylor Hovey (Biology)</p>	
3:20-3:40	<p><b>49 – Audience Effect on Resource Defense in Male Guppies (<i>Poecilia reticulata</i>)</b> Kady Loubier, Meghan Pierse (Psychobiology) Does sex of the audience influence behavior?</p>	<p><b>50 – Effects of Heat Exposure on the Cardiopulmonary and Musculoskeletal Systems</b> Marisa Dzioba, Lindsay Fink, Jessica Case, Pat Robichaud (Biology) Effects of hydrospace exposure</p>	
3:45-4:05	<p><b>52 – Shape Recognition in Gerbils</b> Megan Tower, Rachele Peterson (Psychobiology) Positive association of a circle shape and food reward in two gerbils</p>	<p><b>53 – Age, Growth, and Maturity of the Little Skate, <i>Leucoraja erinacea</i>, from the Western Gulf of Maine, USA</b> Angela Cicia (Biology) Morphological, biochemical, and histological determinants of age and size of sexual maturity</p>	
4:10-4:30	<p><b>55 – Mongolian Gerbil Response to Olfactory Cues</b> Elizabeth Jefferson (Psychobiology)</p>	<p><b>56 – Impacts of Caffeine on College Students</b> Meghan Walsh, Alison Leopard, Katie Linscott (Psychology) A study of college performance</p>	
4:35-4:55	<p><b>58 – Effects of Temperature on Aggression in Beta Fish (<i>Betta splendens</i>)</b> Nia Chadbourne (Psychobiology) An examination of the effect of water temperature</p>	<p><b>59 – Omega-3 and Omega-6 Essential Fatty Acid Intake and Depression</b> Donna Bass, Elise Brisson (Psychology) A correlational study</p>	
5:00-5:20	<p><b>61 – Vocal and Physical Communication in Two Captive Green Tree Frogs (<i>Hyla cinerea</i>)</b> Amanda Noble (Psychobiology)</p>	<p><b>62 – Communication of a Nation</b> Megan McBurnie, Sean McGlew (Psychology) Replacing word-of-mouth with word-of-type</p>	
5:25-5:45	<p><b>64 – The Effects of Diet Enrichment on Maze-challenged Mice</b> Michelle Villemare, Tanya Collan (Psychobiology) Examination of performance in maze navigation</p>	<p><b>65 – Genetic Basis for Eusocial Behavior</b> Niquita Parker (Psychology) The influence of genetics vs. social environment on eusocial behavior</p>	

**67 – ARTWORK DISPLAY - Traditional  
Photography: A Look at Darkroom Technique**

**88 – Effects of Stress, College Work, and Complexity of Young Adult Identity Development on Anxiety and Depression in College Students**  
Carolyn Ciulla, Dustin Shchildroth (Psychology)

**91 – Is There Still Discrimination in Today’s Society?**  
Tanya Chabot (Psychology)  
An observational study

**94 – A Happiness Survey**  
Kristy Boyd, Katrina Higgins (Psychology)  
The influence of gender and an assessment of factors correlated with increased and decreased happiness

**97 – Spending Behavior of College Students**  
Shawn Danner, Amanda Nowicki (Psychology)  
A survey of credit card use

**100 – Self-reflection of College Students**  
Kayla Boyd (Psychology)  
A survey study

**103 – The Psychology of Sexual Orientation: A Literature Review of the Origins of Sexuality**  
Jennifer Brown, Becky Cole (Psychology)  
The learning model and sexual orientation

**106 – The Psychology of Sexual Orientation: A Literature Review of the Evolutionary Theories of Homosexuality**  
Cody Goolsby, Abby Elliott (Psychology)  
A review of the literature

**109 – The Importance of Partner Knowledge in Dating Relationships**  
Gunther Loiko (Psychology)

**89 – Life Satisfaction and a Study of Choice of Major**  
Elizabeth Jefferson, Erik Rame, Jen Manzone (Psychology)  
Examination of life satisfaction and changing one’s major

**92 – Quality of Friendships Among Residential College Students at the University of New England**  
Fallon Kobes, Jennifer Brown (Psychology)  
A survey of students to look for correlation between quality of friendships, gender, and year in college

**95 – Correlation Between Tobacco and Drug Use Among UNE College Students**  
Katie Morin, Danielle Evans (Psychology)

**98 – Participation in, Awareness of, Knowledge of, and Approval of UNE Athletics by UNE Students**  
Isaac Stickney, Lauren Rogers (Psychology)  
A survey study

**101 – Influence of Sex and Year on Applying to College at the University of New England**  
Alyssa Bogacki, Jordan Cyr, Rachel Olinger, Elizabeth Zavagnin (Psychology)  
A survey study

**104 – The Psychology of Sexual Orientation: A Literature Review of Reparative Therapy**  
Amanda Toussaint, Nia Chadbourne (Psychology)  
Reparative therapy as a “treatment” for homosexuality

**107 – The Psychology of Sexual Orientation: A Literature Review of Transgender Issues**  
Teagan Brown, Danielle Evans, Megan Cadigan (Psychology)

**110 – Levels of Satisfaction and Commitment in Proximal and Long-Distance Relationships**  
Emily Leslie, Sarah Morrell, Jeff Cole (Psychology)  
Does absence make the heart grow fonder or does out-of-sight, out-of-mind apply to long-distance relationships?

**90 – Likelihood of Engaging in Helping Behaviors based upon Choice of Major and Influence of Siblings**  
Danielle Wood, Melissa Davio (Psychology)  
The influence of major and siblings on pro-social behavior

**93 – Influence of Gender on Sports Participation and Motivation**  
Erica Johnson, Alexandra Wagner (Psychology)  
A survey of student satisfaction with UNE sports

**96 – College Undergraduate Student Involvement in Activities**  
Vai Shinde, Natalie Lorge (Psychology)  
A campus survey regarding attendance at and satisfaction

