

**11th Annual**  
**University of New England College of Arts & Sciences**  
**Arts & Sciences Symposium**

**Friday May 7, 2010**

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

**Oral Presentation Session – 10:00am-5:00pm**  
in Decary 202, 203, 205, 208, 212

**Featuring Honors Thesis Presentations by:**

Konrad Kross (Biology)  
10:55-11:40 – Decary 212

Francine Brym (Pharmacology)  
11:45-12:05 – Decary 212

Caryn Howard (Mathematical Sciences)  
10:05-10:55 – Decary 208

Dora Clements (Political Science)  
3:55-4:15 – Decary 205

And

A presentation by students in the Department of English & Language Studies:  
*The Jewel in the Crown: Colonial Discourse and the English Novel*  
10:05-10:55 – Decary 212

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

(light breakfast and lunch provided)

POSTER AND ARTWORK PRESENTATIONS – 8:00-10:00 AM – DECARY UPPER CAFETERIA

**1-A Study on Turf Fields vs. Natural Grass: “Do they cause more injuries?”**

Blake Conrad, Angelica Jarmusz, Tim Burnham and Bobby Pratt (Business and Communication and Sport Management)

To determine the causal relationship between turf vs. natural grass in regards to athletic injuries.

**2-Relationship of Athlete GPA In-Season vs. Out-of-Season**

Dylan Saucier, Ryan Ames, Josh Bo6( h)4.6( B)3.9kdi ndracan u e this.4(d)32muBunn e t Management)

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POSTER AND ARTWORK PRESENTATIONS – 8:00-10:00 AM – DECARY UPPER CAFETERIA

**29-The effects of Brain Gym on Test Taking  
Stress and Anxiety**

**Rachele Leonardo, Andrea Morrissey, Corinne  
Perry, Erin Lyons (Biology)**

This study looks at the effects of brain gym on participant anxiety levels, blood pressure, heart rate and brain waves and determines whether brain gym is effective in test taking situations

**34-Coral Reproduction and Management**

John Kluge (Marine Biology)

**30-Do *Spartina Alterniflora* Clones Vary in their  
Tolerance to Sea Level Rise?**

Kate DiVito (Biology)

The effect of tidal inundation on the productivity response of seven clones of the dominant marsh macrophyte, *spartina alterniflora* were examined to determine if their clone-specific responses to rising sea level accompanying global warming

**31-Music Effects on Body Systems**

Maria Denietolis, Molly White, Patricia McLaughlin,  
Christine Garbarino (Biology)

Our experiment tested musical effects of classical and hard core music on heart rate and blood pressure, muscle tone and electrical brain activity

**32-Effects of Chamomile Tea on Quality of Sleep  
Obtained by College Students**

Liz Kelly, Sarah Homich, Marie Mantelli, Sean  
Aubin (Biology)

The purpose of this study was to observe the effects of herbal tea on the functions of the cardiovascular system, the urinary system and the nervous system in relation to the sleep cycle in the college students

**33-Effects of Temperature Increase on Little  
Skates, Raja Erinacea, Gestation**

Tiffany Nordhaus (Marine Sciences)

A study to determine how a 4.5°C increase in temperature will change the gestation of little skates, Raja Erinacea

POSTER AND ARTWORK PRESENTATIONS – 8:00-10:00 AM – DECARY UPPER CAFETERIA

**44-The Effects of the Mu-opioid Receptor Agonist,  
Morphine, on Persistent Hindlimb Flexion**

Dan Panciocco, Mustaf Sharif, Ademola

Asimatanrareje (COM, Biology)

PHF is a model of injury-induced changes in passive range-of-motion that is commonly observed in many clinical musculoskeletal conditions

**45-The Effects of an Unhealthy Diet in the Body of  
a College Student**

Jessica Nadeau, Ludi Milla Fr

## Oral Presentations-Arts & Sciences Symposium 2010

	<b>Decary 202</b>	<b>Decary 203</b>	<b>Decary 205</b>	<b>Decary 208</b>	<b>Decary 212</b>
10:05- 10:25	59-Effects of Almonds and Coffee on Stress				

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	<b>Decary 202</b>	<b>Decary 203</b>	<b>Decary 205</b>	<b>Decary 208</b>	<b>Decary 212</b>
11:45-12:05	<p><b>63-The Significance of Sound Stimuli in Eliciting the Fear Response in Video Clips</b> Lindsey Bourget, Nicole Pepin, Kasey Little, Brittany Bolduc (Biology) This study tested the effectiveness of eliciting fear response in subjects watching a video clip with sound versus without sound.</p>	<p><b>79-Managing with Alzheimer's Disease: Rivastigmine (Exelon)</b> Anda Panaitiu, Pratik Shah (Chemistry &amp; Physics) Rivastigmine (sold under the name of Exelon) is a drug used in the treatment of Alzheimer's related dementia. Rivastigmine's properties, molecular mechanism, and drug development process are described in the current presentation</p>	<p><b>95-Effects of Temperament in Shelter Dogs Leading to Adoptability</b> Michael A. Sagaert (Psychology) Testing canine temperament &amp; adoptability in an animal shelter</p>	<p><b>110-Qualitative Analysis of Stomach Contents of the Spiny Dogfish (<i>Squalus Acanthias</i>) from the Northwest Atlantic Ocean</b> Drew Rosati (Marine Science) Observations of the direct impact of a growing predator population on commercially important species along the east coast of the United States</p>	<p><b>119-The Effects of Methylphenidate and Atomoxetine on Attention and Levels of Norepinephrine, Dopamine, and Serotonin in the Medial Prefrontal Cortex of Adult Rats</b> Francine Brym (Pharmacology) Honors thesis research on the effects of drugs used to treat ADHD patients on both subjects behavior in an attention task and neurotransmitter levels by use of in vivo microdialysis on the prefrontal cortex</p>
12:10-12:30	<p><b>64-Body Responses to Heat</b> Emily Clifford, Amber Zablowky, Catherine Markins (Biology) How the body reacts to ten minutes in a sauna based on heart rate, blood pressure, and respiration rate</p>	<p><b>80-Capoten</b> Tanya Lawrence, Kyle Draleau (Chemistry &amp; Physics) This is an informational session on the drug Capoten, an Ace inhibitor</p>	<p><b>96-Environmental and Social Effects on Predator Inspection in Rosy Red Minnows</b> Rebecca Hartman, Shalee Crandall (Psychology) Predator inspection behavior in single and 5 member shoals of minnows were tested in three environmental conditions</p>	<p><b>111-The Effects of Temperature and Seasonal</b></p>	

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	<b>Decary 202</b>	<b>Decary 203</b>	<b>Decary 205</b>	<b>Decary 208</b>	<b>Decary 212</b>
1:00- 1:20	<p><b>66- Occupational Therapy &amp; Interventions for Cerebral Palsy</b> Caryn Cartledge, Tynisha LaCroix (Biology) Research paper looking into OT assistance with the interventions of CP in children</p>	<p><b>82- Rohypnol (Flunitrazepam): Uses as an Effective Medication for Sedation and Insomnia</b> Marissa Corriveau, Johnna Ambrose (Chemistry &amp; Physics) The chemical structure, metabolic breakdown, history and use of Rohypnol in several different areas of the world are discussed</p>	<p><b>98- The Effects of Automobile Fluids on Social Behavior in Goldfish (Carassius Auratus)</b> Jennifer Manzone, Fallon Kobes (Psychology) Results of our research on the effects of oil, windshield washer fluid, and antifreeze on the behavior of goldfish will be discussed</p>	<p><b>113- Determining Age and Size At Sexual Maturity of Black Dogfish (<i>Centroscyllium Fabricii</i>)</b> Nicole Ward (Marine Science) A study to understand the life cycle of a deep water shark species found in the north Atlantic</p>	<p><b>121- Rural Homosexuality in New England: Six Perspectives From College Aged Youth</b> Andrew Cole (Sociology) This study delves into the secret (and not so secret) lives of six gay UNE students to explore the trials and tribulations of growing up gay in New England</p>
1:25- 1:45	<p><b>67-The Effects of Scary Stimuli on the Cardiovascular, Nervous, and Endocrine System</b> Shannon Roche, Jonathan Dupis (Biology) Researchers sought to investigate how physiological systems are affected by exposure to a scary film</p>	<p><b>83- Yasmin</b> Jen Bayron, Emilee Kenyon (Chemistry &amp; Physics) Discussing the history and uses of Yasmin as an oral contraceptive</p>	<p><b>99- Now You See It, Now You Goat! Understanding</b></p>		

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	<b>Decary 202</b>	<b>Decary 203</b>	<b>Decary 205</b>	<b>Decary 208</b>	<b>Decary 212</b>
2:15- 2:35	69- Changes in $\beta$ -Wave and Galvanic Skin Response While Lying Using a Concealed				

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	<b>Decary 202</b>	<b>Decary 203</b>	<b>Decary 205</b>	<b>Decary 208</b>	<b>Decary 212</b>
3:30-3:50	<p><b>72- Effects of Aromatherapy Lotion on Stress in College Students</b>            Kyle Draleau, Tanya Lawrence, Matthew Lavasseur, Maxwell Adomaitis (Biology)            College students were given a math test as a stressor and their heart rate, blood pressure, respiratory rate, and electroencephalogram results were compared between those receiving or not receiving aromatherapy.</p>	<p><b>88- Testing Abuse Liability of Novel Delta Opioid Pain Relievers</b>            Amy Luginbuhl, Catherine Dunbar (Psychology)            Our laboratory has been characterizing the addiction potential of a novel class of opioid pain relievers that bind to both delta and mu opioid receptors</p>	<p><b>104-Compromising, Selling Out, or Both? The Fair Trade Movement and Globalization</b>            Donovan Marvin (Political Science)            Whether the relationship between the Fair Trade Movement and multinational corporations has been a smart and effective choice for the Fair Trade Movement to reach their goals for fair prices for farmers in developing countries.</p>		<p><b>126-Outdoor Artistic Expression on Campus</b>            Jane Larsen (English)            Poetry reading and photo slideshow of an outdoor art project</p>
3:55-4:15	<p><b>73-The Effect of Music on Exercise and Cardiopulmonary Performance</b>            Joshua Grenier, Katie Audet, Vernon Chan, Ashley (Biology)            The cardiopulmonary workload and total distance ran was compared to groups listening to and not listening to music</p>	<p><b>89- The Effects of DHA on the Nervous System</b>            Tom Siemens (Neuroscience)            Literature review of the effects of Omega-3 fatty acids on neural development, function, protection, and repair</p>	<p><b>105-From Foucault's Delinquent to the Abject: The New Spectacle of Prison Privatization</b>            Dora Clements (Political Science)            This research examines the shift from the traditional type of punishment described by Foucault in <i>Discipline and Punish</i> to the modern spectacle that is the American privatized prison system</p>		
4:20-4:40	<p><b>74-Regaining Independence</b>            Caitlyn Townsend, Janine Lodguidice (Biology)            What the future holds for upper extremity amputees with the help of advanced technology</p>	<p><b>90- Murine LP-BM5 Viral Infection Induced Reduction of Hind Paw Intraepidermal Nerve Fibers in C57B1/6 Mice</b>            Leonard C. Tan (Microbiology)            This study evaluated the density of hind paw intraepidermal nerve fibers in C57B1/6 mice via immunohistochemistry following infection of LP-BM5, a murine retroviral isolate that induces severe acquired immunodeficiency syndrome similar to human HIV</p>	<p><b>106- The Art / Crowd Stimulus</b>            Chase Sheaft (Political Science)            An argument that art walks are popularized when an "art / crowd stimulus" is offered, cohesion of a crowd and art that amplifies the pleasure of the experience</p>		