



# Undergraduate Research and Arts Celebration

## Schedule of Presentations

April 22, 2015

	Patterson 105	Patterson 106	Patterson 107	Patterson 108
9:00-9:15	Torey DeAngelis <i>Matroids and Group Theory</i>	Elizabeth Buechele <i>Happiness as.. a Business Model</i>	Nicholas Smith <i>The Role of Self-Disclosure in Buffering Negative Feelings within Adolescent Friendships</i>	Ian Davis <i>Determination of Manganese-Oxidizing Bacteria in a Passive Treatment System</i>
9:25-9:40	Brittany Erbe <i>Power Law Distributions Using Twitter Data</i>	Chelsea Phillips <i>Possible Implications of Parent or Guardian Mental Illness on an Offspring's Ability to Form and Maintain Adult Romantic Relationships</i>	Tarah Stewart <i>Imagined Contact Reduces Prejudice toward Students with Physical Disabilities</i>	Marc Williams <i>Cloning and Mutagenesis of <math>\alpha</math>-glucosidase for Kinetic Studies with Dieckol</i>
9:50-10:05	Julie Bearer <i>Using Linear Programming and Modern Portfolio Theory to Find Best Portfolios for Given Risk</i>	Abigail Miles <i>Rural Poverty: A Forgotten Problem in Modern-day America</i>	M. Sawdy, L. McElhaney, C. Michaels, S. Wasilko, D. Heitmeier, S. Ferguson, A. Wyland <i>The effects of water quality produced from Aquaponic &amp; Reptoponic systems</i>	Brady Keister <i>Emotion Regulation Predicts Ability to Cope with Stress</i>
10:15-10:30	Stephanie Burkus <i>Continued Fractions</i>	Joshua Scott <i>The Modern Speech</i>	Domenic DiSanti <i>Chemometric Analysis of Trace Metal Content in Human Hair by ICP-MS</i>	Nathaniel Schramm <i>Investigating the Function of the Protein PCID2 at the Centrosome</i>
10:40-10:55	Nicholas Hainsey <i>Vertex Pursuit Game Under Variable Speed Players</i>	Lance Jubic <i>Closterium moniliferum: A candidate for the remediation of water contaminated by hydraulic fracturing</i>	Alyssa Simmons <i>Observing Bone Regeneration in the Mexican Axolotl via X-ray Imaging</i>	KoreyAnne Smith <i>Joaquin Sorolla's Vision of Spain as a Map of Regional Identity in Spain</i>



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	Patterson 205	Patterson 206	Patterson 207	
9:00-9:15	David Jamieson, Paul Carswell, Cameron Pozsgai, Christopher Wess <i>iPhone 6i. Your Life</i>	Haley Barger <i>Beat to Hell: an American Epic</i>	Benjamin Parker <i>GPS Adventure: Web Portal For Virtual Geocaching</i>	
9:25-9:40	Scott Raley, Sylvester Enos, Rob Poling <i>Strategic Business Perspectives</i>	Kelsey Angove <i>Writing the Landscape: Jane Eyre and Tess of the D'Urbervilles Through a Gendered Lens</i>	Nicholas Hainsey <i>Practical Hierarchical Temporal Memory for Time Series Prediction</i>	
9:50-10:05	Christina Campbell <i>Active Nuclear Transport is Disrupted Before Nuclear Envelope Breakdown</i>	Caroline Kostishack, Samantha Tower <i>Avoiding a Tragedy of the Nations: An Analysis of United States &amp; European Union Greenhouse Gas</i>	Rachael Boyes, Matt Nystrom <i>The Business Strategy Game</i>	
10:15-10:30	Annaliese Speck <i>My Dad's Wife: A Look Into the Identity of Motherhood</i>	John Griebel <i>Evolving Complex Robot Behaviors in Real Time With Genetic Programming</i>	Leanna Rinehart <i>Determining methylation status during limb regeneration</i>	
10:40-10:55	Samuel Mellon <i>The Gyrochronology of Stars in the Scorpius-Centaurus OB Association</i>	Olivia Martin <i>Huntington's Threat to One Woman's Feminine Identity</i>	Andrew Henley <i>Bricks, Bottles, and Brawls: Urban Unrest in New Castle, Pennsylvania</i>	



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	Patterson 105	Patterson 106	Patterson 107	Patterson 108
12:30-12:45	<p>Brandon Saber</p> <p><i>Recommendation Systems</i></p>	<p>Charles Cratty</p> <p><i>Pattern Avoidance in Double Lists</i></p>	<p>Madison Ennis</p> <p><i>A Spanish Nation Divided: Catalan Language and Identity Contributes to Regional Nationalism</i></p>	<p>Brett McElroy</p> <p><i>The Discovery and Analysis of New Eclipsing Binaries</i></p>
12:55-1:05	<p>Christijana Vucenovic</p> <p><i>Flame Fractals - How Math Can Save Your Life</i></p>	<p>Christian Na</p> <p><i>Westminster Students' Understanding of Sustainability Issues</i></p>	<p>Kevin Suchcicki</p> <p><i>Credo Ergo Sum</i></p>	<p>Kara Klobuchir, Rachel McMaster</p> <p><i>To Read, or Not to Read</i></p>
1:20-1:35	<p>O. Hvizdos, A. Carr, E. Ishman, M. Rozick</p> <p><i>Increasing Young Children's Reading Motivation Through Diverse Family Literacies</i></p>	<p>Ashley Lance</p> <p><i>Economics vs. Racial Purity: Nazi Motivations for the Persecution of the Disabled</i></p>	<p>N. Hall, R. Francis, M. Gurgiolo, Z. Kraus, S. Lutz, C. Miller, J. Seitz</p> <p><i>Getting Rich using a Price to Earnings Ratio</i></p>	<p>Marissa Lyerly, Jen Peet, Kyle Grabigel</p> <p><i>National Small College Intercollegiate Band 2015: Vanderbilt</i></p>
1:45-2:00	<p>M. Sawdy, C. Michaels, M. Ellwood, S. Ferguson</p> <p><i>Territoriality in Male Betta Fish</i></p>	<p>Anthony Sloan</p> <p><i>The Concomitant Effect of Methylphenidate and Ethanol on Working Memory in a Rat Model of</i></p>	<p>Carl Greene</p> <p><i>The Secret After-Life of Batteries</i></p>	<p>Steven Pickering</p> <p><i>The Effects of the Mirror Illusion on the Vasomotor Response and Thermal Biofeedback</i></p>



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12:30-12:45	<p>Beth Csomay</p> <p><i>Wordsworth's Pantheistic Ideology: "The Ruined Cottage"</i></p>	<p>Maria McTighe</p> <p><i>The Perceptions of Emerging Adults on Helicopter Parenting</i></p>	<p>Michelle Myler</p> <p><i>Rejection as a Predictor of Emotional and Physical Pain</i></p>	
12:55-1:05	<p>Marqus Koranteng</p> <p><i>The Relationship Between Internalized Media Influences and Body Dissatisfaction in Men</i></p>	<p>Margaret Hess</p> <p><i>All the Wild Language in My Outstretched Arms</i></p>	<p>Julie Powell</p> <p><i>VITA- Volunteer Income Tax Assistance Program</i></p>	
1:20-1:35	<p>Timothy Lane</p> <p><i>Together we move forward - Reflections on Rwanda</i></p>	<p>Nicholas Verno</p> <p><i>Evaluating the Viability of Online Learning Systems</i></p>	<p>Kayla Hiscox</p> <p><i>Early Childhood Program Models and Teacher Philosophy Connectedness</i></p>	
1:45-2:00	<p>Veronica Corcoran</p> <p><i>Simulating Planetary Disruption from Passing Stars</i></p>	<p>Alex Jordan</p> <p><i>Bioaccumulation of strontium by earthworms exposed to produced water</i></p>	<p>Phillip Howells</p> <p><i>Breakneck Breathing</i></p>	