

**17th Annual UMD**  
**Undergraduate Research & Artistic Showcase**  
**Thursday April 12, 2012**  
**12:00 – 4:00**  
**Poster Presentations – Ballroom**  
**Oral Presentations – Garden Room and Kirby 355**

*Opening Remarks*

*Timothy Holst, Director of Sponsored Research Administration*

*Penelope Morton, Interim Dean Swenson College of Science and Engineering*

### Oral Presentations – Garden Room

Time	Presenter	College	Project Mentor	Project Title
12:20	Alethea Tusher	CLA	Simon Kress	Suicide, Community, and Aesthetics: Achieving the Ecstatic in James Wright's Poetry
12:40	Krista Suchy	SFA	Jennifer Webb	A Visual Edition
1:00	Amy Redfield	SCSE	Matt Andrews	The Effects of Lipids on Hibernation-Related Physiology
1:20	Jason Hafemann	CLA	Scott Laderman	Rapprochement: US Recognition of the People's Republic of China
1:40	Mylii Pukema	CLA	Mike Mullins	(K)ein Einwanderungsland: Understanding Germany's Immigration Policy Stagnation
2:00	National Science Foundation Video			
2:20	Codi Stevens	CLA	Jason Ford	A Series of Unfortunate Conclusions for the Higher-Order Thought Theorist
2:40	Jonathan Roatch	CEHSP	Tom Beery	Developing a Sustainable Culture
3:00	Maxwell Elfelt	SCSE	Nathan Johnson	Bioremediation of PAH-contaminated sediments in the St. Louis Harbor
3:20	Justin Anderson	LSBE	Neil Wilmot	The Benefit of Free Trade on a Developing Economy: A Statistical Analysis of Trade Liberalization of the Chilean Economy with North America
3:40	Ben Riley	SCSE	Anne Hinderliter	Functionality of Synaptotagmin I C2A Mutants Related to the Redistribution of Conformational States

### Oral Presentations – Kirby 355

Time	Presenter	College	Project Mentor	Project Title
12:20	Emily Kalkbrenner	SCSE	Tim Craig	Ecological Speciation of the Eurosta Solidaginis Population of Solidago Gigantea
12:40	Erik Carlson	SCSE	Joseph Johnson	Characterization of BACE by PICS
1:00	Gerrett Soper	CLA	Joseph Bauerkemper	“Oh, I don’t think we’ll have any trouble with the Indians. We’ve always treated them fair!” Frontier Violence and Indigeneity in Drums Along the Mohawk, Exodus, Last of the Mohicans, and Munich
1:20	Samatha Stewart	CEHSP	Ladona Tornabene	Examining State Trait Anxiety in Individual Viewing Nature Photos
1:40	Lara Richardson	CLA	Eve Browning	Video Games Through a Feminist Lens
2:00	Bryan Jensen	SCSE	Joseph Johnson	Removal of the V5 tag from BACE Isoforms
2:20	Wil Licht	SCSE	Tim Craig	Evidence of a Novel Oviposition Preference in an Oecanthinea Species
2:40	Abigail Thomas	CEHSP	Musatafa al’Absi	Blood Pressure’s Effects on Working Memory
3:00	Jenelle Bartelt	SFA	Ann Bergeron	The World of Puppetry
3:20	Jim Pietila	CLA	Pat Farrell	Regional Influences Contributing to the Artistic Landscape of Ely Minnesota
3:40				

**Poster Presentations - Ballroom**

<b>No.</b>	<b>Presenter</b>	<b>College</b>	<b>Project Mentor</b>	<b>Project Title</b>	<b>Author will be present</b>
1	Angela Pitan	CEHSP	Duane Millslagle	Coincidence Anticipation Timing Accuracy and Eye Tracking Movements Involving Low and High Target Velocities in Males and Females	1:00 – 4:00
2	Anika Theisen Angela Pitan	CEHSP	John Keener	Effect of Temperature and Quantity of Water When Measuring Body Volume Using Water Displacement	1:00 – 4:00
3	Brittany Bailey Kate Pattison	SCSE	Jennifer Liang	Zebrafish Fin Regeneration: Determination of Fin Stripe Patterning Regrowth	1:00 – 3:00
4	Emily Haavik	CLA	David Beard	Political Style, Paranoid Style and the Peoples Temple	12:00 – 1:00 3:00 – 4:00
5	Thomas Cameron	SCSE	Bruce Peckman	Newton's Method for a Family of Quartic Polynomials	12:00 – 2:00
6	Nathan Zarnstorff	SCSE	Tim Craig	Geographically Variant Host Specialization in a Specialist Aphid	12:00 – 1:00 2:00 – 4:00
7	Nicholas Boman	CEHSP	Nedra Hazareesingh	The Effects of Active Commuting on an Elementary Student's Race Training Time and Physical Fitness as measured by Race Time	12:00 – 4:00
8	Jillian Bartusek	SCSE	Ahmed Heikal	Coenzymes as Natural Biomarkers for Oxidative Stress in Fibroblast C3H10T 1/2 Cells	12:30 – 1:30
9	Nicholas Hess	SCSE	Matt Andrews	Correlation of Hyperthyroidism with Lipid Mobilization and Thermogenesis Transcripts in the Adipose Tissues of a Mammalian Hibernator	12:00 – 4:00
10	Jessica Clay Kaaren Westberg	SCSE	Jennifer Liang	Mapping of Mesendodermal Tissues Necessary for Neural Tub Closure of Squint Mutants	12:00 – 4:00
11	Autumn Stivers-Biscusco	SCSE	Christina Gallup	Analysis of Uranium in Fossil Corals	12:00 – 3:30

12	Vincenzo Brambilla	CEHSP	John Keener	The Physiological Benefits of Minimalistic Running Compared to Shod	12:00 – 3:00
13	Amy Van Hecke	SCSE	Robert Cormier Patricia Scott	Development of expression constructs to study function of candidate colorectal cancer genes	unavailable
14	Jacqueline Borrett	CLA	Edward Downs	Establishing Street Cred: Using the Media Equation to determine if GPS Devices Can Elicit Social Responses Through Vocal Cues	12:00 – 2:00
15	Brianna Vick	SCSE	Jennifer Liang	Using GloFish to Teach the Scientific Method	1:00 – 4:00
16	Brian Downing	CLA	Randel Hanson	SDROP	12:00 – 1:50
17	John Alfveby	SCSE	Ahmed Heikal	Lipid Domain Formation in Giant Unilamellar Vesicles for Biophysical Studies of Biomembranes	12:00 – 4:00
18	Mary Ross	CEHSP	Robert Lloyd	Conditional Reasoning Under Implications of Evolutionary Threat	12:30 – 4:00
19	Angela Holst	CEHSP	Dana Collins	Nasalance Score Comparison between the Nasometer 6400 versus the Nasometer 6450	2:00 – 4:00
20	Janae Anderson	SCSE	Robert Cormier	Analysis of Runx1 Target Gene Expressions in Mouse Colon	12:00 – 2:00
21	Derek Newman	CEHSP	Robert Lloyd	The Effects of Empathy on Social and Abstract Reasoning Abilities	1:00 – 4:00
22	Crystal Haskin Teresa Heck Samantha Klaers Morgan Reno	SCSE	Jennifer Liang	Genetic Inheritance of the White Eye Mutation in Drosophila	12:00 – 4:00
23	Ryan Holmquist	SFA	Joellyn Rock	Cinematic Still Digital Compositing for <i>The Mysteries</i>	12:00 – 1:45 3:30 – 4:00
24	Amy Fahrenkamp	CEHSP	Scott Carlson	Parental History of Alcoholism, Executive Disinhibition, and Impulsive Personality Among Female College Students	12:00 – 2:00

25	Stephani Lipps	SCSE	Steven Berry	Characterizing the Functionality of the Az-PHM Model	12:00 – 12:30
26	Timothy Gearn	SCSE	Eric Musselman	Effects of Coarse Aggregate Strength on Unreinforced Concrete During Dynamic (Impact) Loading Events	1:00 – 2:00
27	Alethea Tusher	CLA	Simon Kress	Suicide, Community, and Aesthetics: Achieving the Ecstatic in James Wright's Poetry	12:00 – 2:00 3:30 – 4:00
28	Rachel Toczydlowski	SCSE	Julie Etterson	Hybrid Vigor and Outbreeding Depression in <i>Solidago altissima</i> Interpopulation Crosses Along the Longitudinal Precipitation Gradient in Minnesota	1:00 – 4:00
29	Ryan Miller	CEHSP	William Gear	Effect of Cold Therapeutic Laser Treatment on Tissue Temperature in Healthy Individuals	3:00 – 4:00
30	Jeffrey Finlon	SCSE	Ben Clarke	The effects of Dexamethasone on T-cell Activation and early Proliferation	1:30 – 4:00
31	Randi Timmerman	SCSE	Ahmed Heikal	Actional Mechanism of Bodipy-FTY720 as a Biomarker for Immune Suppression	1:00 – 4:00
32	James Barney	CEHSP	Brian McInnes	Biskaabiwidoon	12:00 – 12:45 2:30 – 3:15
33	Sara Chlebeczek	SCSE	John Goodge	Red Granite Petrology to Test Continental Correlations Within the Rodinia Supercontinent	2:00 – 4:00
34	Eryn Blackwell Nicole Hallin	CEHSP	Dana Collins	The Effects of Vocal Hygiene Education on Singers' Acoustic and Perceptual Measures of Vocal Performance	12:00 – 4:00
35	Eliza Steely	CLA	David Beard	Repetition and Variation in Persuasion: Jonestown	12:00 – 3:00
36	Julia Walter	CEHSP	Alexandra Luong	Multitasking: Its Predictors and Outcomes	12:00 – 4:00
37	Kelly Westphal	SCSE	Donn Branstrator	Size and Gender Distribution of <i>Limnocalanus Macrurus</i> in Lake Superior	12:30 – 1:30

38	Vlad Popescu	SCSE	Victor Nemykin	Synthesis and Characterization of Molecular Magnetic Systems	12:00 – 2:00
39	Daniette Audette	CEHSP	Robert Lloyd	The Effect of Empathy and Ovulation on Ratings of Facial Attractiveness	2:30 – 4:00
40	Bradley Waldorf	SCSE	Julie Etterson	Does the Survivorship of Solidago Altissima Differ Among Ploidy Levels in Response to Water Availability	12:00 – 2:00
41	Tim LaCore	CEHSP	Eric Hessler	Coordination Between Movement and Breathing During Baseball Batting	12:30 – 4:00
42	Emily McDonald Janet Non Elizabeth Schnabel Kerianne Trudel	SCSE	Jennifer Liang	The Effects of Age on Zebrafish Tail Regeneration	12:00 – 4:00
43	Christopher Anderson	CLA	Kate Carlson	Glensheen GIS Mapping	12:00 – 1:00
44	Chase LaPan	CEHSP	Alexandra Luong	An Examination of the Accuracy of Ratings in the Individual Versus Group Employment Interview	1:00 – 2:00 3:00 – 4:00

*Thank you to*

*Sierra Kamatchus*

*Graphics Design major for the design of the Showcase poster and t-shirt*