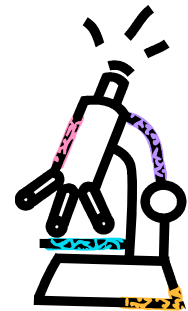


**4th annual**

***Lyman Briggs  
Research Symposium  
April 26-27, 2010***



**Complete Schedule**



**LYMAN BRIGGS  
COLLEGE**

**MICHIGAN STATE  
UNIVERSITY**

# Monday Oral Presentations

Room	Specific Time	Title	Presenter(s) (Class)
W-40	3:00-3:50	John Nash: Rational or Not?	LB 492 Evan Pratt
		Game Theory Applications in Culture and Relationships	Brianna David
		The Prisoner's Dilemma	Christopher Wahl
		Evolutionarily Stable Strategies	Terry Barrett
		Biological Game Theory	Jonathan Swetech
		Adam and Eve Play with Game Theory	romeo blanchette
		Game Theory and Sports	Todd Thurman
		Game Theory and Parliamentary Coalitions	John Syrjamaki
		Group Theory and Applications to Business	Derek Vinkovich
		Applications of Game Theory in Philosophy	Michael Hresko
		The Worlds Largest 2x2 Game	Eric White
		game theory and war	sara bradley

## Tuesday Oral Presentations

Room	Timeslot/ Location	Title	Presenter (Class)
C101	10:20 C101	A Survey On Race	Cinnamon Stray
C102	10:20	6 Green business "pitches"	LB335
W-40	12:40-2:30	8 Solving Social Problems presentations	LB 492
C-101	3:00 PM	Decriminalization of Marijuana in the US The Worlds Largest 2x2 Game game theory and war	Melisa Bailey Eric White sara bradley

# Monday Poster Presentations in East/West Lounges

## 9:00-11:10 am

Presenter at Poster	Title	Presenter(s) (Class)	East/ West
<b>9:10-10:00am</b>		<i>LB 172 Presentations</i>	
	Ritalin	Whitney First, Laura Kwansik, Isabel Hurden	E
	Double-Edged Chemicals: Prozac, the "Happy" Drug	Katie Rivard, Aaron Rivkin, Molly Pouch, Amanda Schneider	E
	Thalidomide	Kaelyn Stevick, Sarahbeth Barlas, Leah Jackson, Charlotte Lee, Becky Campa	E
	The Loop-Holes of Asbestos	Eric Foster, Jordon Vandeveld, Raj Lingnurkar, Diamond Cannady	E
	Milking Out the Truth: A Risk Assessment of Bovine Growth Hormone	Karen Beatty, Cecilee Jarrad, Ashley Baird, D'Nisha Hamblin	E
	Double Edged Chemical	Emily Palczewski, Ken Walters, Kristen Schotts, Emily Loubert	E
	Ritalin	Leah Granzo, Mark Klamerus, Molly Brown, Emily Mitchell	E
	Pseudoephedrine: Two Sides to Every Story	Cassie Wieckhorst, Jake Ghannam, Kendra Pryczynski, John Anderson	E
	Pros and Cons of Asbestos	Emily Schmitt-Matzen, Christina Van Doornik, Lauren Kovacevich, Kate Schaller	E
	Botox	Katie Leszcz, Nikki Purcell, Brittany Sims, Kelsey Leicht	E
	Double Edged Chemical: DDT	Sara Mousa, Monica Hasse, Katie Sivia, Kelsey Sill	E
	Botox: The Good, The Bad, and The Ugly	Andrea Parker, Michelle Chavdar, Aimee Kamish, Lauren Mieras	E
	Double-Edged Chemicals: Xyrem	Alyssa Zandi, Vinh Dang, Derek StLouis, Lawrence Berry	W
	Botox: Beauty and Beyond	Mary Cornwell, Kayle Noble, Graden Barnes, Lindsey Young	W
	Asbestos, Really as Bad as They Say?	Amanda Molicky, Emily Fox, Lindsey Herrington, Nick Vejvoda	W
	The Double Edged Chemical Vioxx	Shelbe Vollmer, Kelsey Hummel, Ashley Culver, Oshan Weerasinghe	W
	Ritalin: Focus or Flaw	Scott Jackson, David Walsh, Ryan Swaney, Robert Gross	W
	The Advantages and Disadvantages of Morphine	Angelo Hankes, Kaz Knight, Nick Wright, Ryan Annis	W
	Thalidomide - Pros and Cons	Erin Smigielski, Benjamin Arnosti, Matt Maksimoski, Samantha Larson Zachary Gaudette, Steven Muresan, Meghan Parrott, Travis Saari, Alexandra	W
	Adderall	Rodebach	W
	Bovine Growth Hormone	John Cochrane, Jacob Aubry, Alex McNeill, Jose Zamora, Amar Jaswa	W
	DDT's	McKallie Quirk, Aj Yunker, Maria Raffoul, Brendan Johnson, Danny Joost	W

# Monday Poster Presentations in East/West Lounges

## 9:00-11:10 am

Presenter at Poster	Title	Presenter(s) (Class)	East/West
		Joanne DeMois, Shelby Rockwell, Shelby Motoligin, Megan Chorazyczewski, Jessica Sanborn	W
	botox Bovine Growth Hormone	Amy Jamieson, Brendan Tubbs, Erin DeLong, Phuong Nguyen, Molly Maynard	W
<b>10:20-11:10</b>			<i>LB 172 Presentations</i>
	Thalidomide	Ananya Juneja, Nicole Arcy, Amber Peruski, Peinan Li	E
	Ritalin: An Objective Risk Analysis	Kirk Harrison, Will Kim, Chris Horn	E
	Pseudoephedrine: Decongestant or Dope?	Carolyn Schupp, Mary Bammer, Jeremy Colborn	E
	Fen-Phen; A Double Edge Compound	Ryan Bell, Olivia Allen, Kristen Smith	E
	Thalidomide	Adam Foster, Dean Sharrard, Sara Flanigan, Anthony Mastropaolo	E
	The Positive and Negative Effects of Ritalin on its Users	Christina Hazekamp, Brooke Pallas, Lauren Follmer, Benjamin Rupright	E
	Pros and Cons of Asbestos	Tiahna Taylor, Ashley Staley, Sarah Schaffer, Cameron McKillop	E
	Botox: A Double Edged Chemical	Jordan Cohen, Paul Kelly, Erin Weisler, Devon Pyykkonen	E
	Taxol	Sam Blanken, Chris Seaford, Sam Pace, Elise Wright	E
	DDT Double Edged Chemicals	Leah Ritchie, Katelyn Parmalee, Julie Adamo, Emma Darios	E
	The Good and Bad of Pseudoephedrine	Erica Hartwig, Jenny Pierick, Monica Pomaville, Gina Carnago	E
	Phen Fen	Ashley Hall, Drew Kuhlman, Nick Posawatz, Jennifer Orletski	E
	The Pros and Cons of Prozac	Melanie Hardin, Alison Mowry, Sana Nadeemullah, Michael McDowell	W
	Prozac	Diana Covalschi, Ahilya Deshpande, Julie Nguyen, Ryan Chandler	W
	Methylphenidate	Madeline McDonald, Nicolette Metrusias, Nick Wasko, Seth Perry	W
	The Prozac Paradox	Liz Perry, Kate McGlew, Madeline Mackinder, Shayna Taylor	W
	Botox- A Double Edged Chemical	Kathryn Zaborowski, Caitlin O'Brien, Lisa Kitto, Casey Spooner, Alyssa Wood	W
	Fluoride	Rachael Hume, Jatinderpal Singh, Nolan Hughes, Trevor Leach, Chris Blazy	W
	Folic Acid- A Double Edged Sword	Shubham Kalwani, Anna Levine, Katelyn Prieskorn, Katie Foster, Jane Dickson	W
	DDT	Dana Soucek, Leah Maniaci, Nish Harichandran, Blake Ramos, Sami Takriti	W
	Botox a double edged chemical.	Michael O'Meara, Sean Umlor, Nathan Zietler, Kayla Olds, Wesley Walker	W

# Monday Poster Presentations in East/West Lounges

## 9:00-11:10 am

Presenter at Poster	Title	Presenter(s) (Class)	East/ West
	Double-Edged Chemicals-Flunitrazepam Hormone Response in the Early	Mathieu Gervais, Prabhjot Singh, Keith Wiley, Brandon McIntyre, Brandon Krinock	W
<b>MMG490</b>	Germination of the Sugarbeet	Jillian Waxmonsky	W
<b>LB 415</b>	Mathematics in the Real World	Jeremy Levine, Dung Dao	E

# Monday Poster Presentations in East/West Lounges

## 11:30am - 2:40pm

Presenter at Poster	Title	Presenter(s) (Class)	East/ West
<b>11:30-12:20pm</b>		<i>LB 172 Presentations</i>	
	The double edged chemical ritalin	Eric Kontowicz	E
	DDT	Joy Burrell, Jenna Lubitz, Philip McCarthy	E
	Pseudoephedrine	Dick Dinon, Mitchell Kelley, Dayna Rein, Alex Reid	E
	Prozac Picks You Up	Justin Darcy, Sarah Aberasturi, Lauren Lenzion, Amy Ebbing	E
	The Ups and Downs of Viagra	Lisa Vitello, Tyler Ash, Dylan McKay, Andreana Masters	E
	DDT-dichlorodiphenyltrichloroethane	Marie Zainea, Shannon Varner, Emily Martinez, Annie Sanders	E
	Double Edged Chemical: Thalidomide	Aaron Sayfie, William Darden, Anthony Dimovski, Brian Grisdela	E
	Pseudoephedrine	Sarah Reed, Gina Vito, Shellby Tackett, Heather Vannuil	E
	Botox	Colleen Victor, Megha Patel, Eeb Wasti, Jeff Shoemaker	E
	Asbestos	Melisa Bailey, Soo Hur, Andrea Watts, John Nyberg	E
	Cialis	Molly Marx, Kevin MacConnachie, Justin Zaleski, Jon Colley	E
	Ritalin: Safe or Not	Matthew Herman, Vincent Ferro, Josh Polito, Kevin Alderton	W
	Thimerosal	Chris Mirque, Joe Attard, Tim Koch, Maris Polanco	W
	Ritalin	Adam Scarchilli, Kayla Mosey, Shelby Bechler, Nicole Hanley	W
	Botox	Sarah Jordan, Rebecca Glover, Sarah Ptasznik, Olivia Slubowski	W
	Got More Milk?	Abbey Debniak, Rose Arapostathis, Carly Riddle, Samantha Sollestre	W
	Asbestos	Kelsey Burgess, Kayla Ambroziak, Marisa Willman, Tluang Hniang	W
	Double Edged Chemicals: DDT	Charlsey Hoehn, Jacob Uebler, Rachel Rinaldi, Vernon LaLone, Claire Gatesy	W
	Pseudoephedrine	Ashley Hurand, Samantha Voorhorst, Nick Gavern, Stephen Harnadek, Karthik Padmanabhan	W
	Methamphetamine	Emily Weiss, Annalisa Palazzolo, Alex Pucci, Alyssa Wethington, Lindsey Armstrong	W
	Prozac	Rachel Nestor, Elizabeth Welch, Bryan Cousino, David Movsesian, Marvin Claar	W
	Bovine growth hormone: is it worth it?	Dane Larsen, Gina Sellinger, Jon Walters, Adam Schulman, Nick Fernandez	W
	Ritalin- Pros vs. Cons	David Lutz, Ashley Grosso, Chris Chacko, Andrew Snider, Praneeth Manam	W

# Monday Poster Presentations in East/West Lounges

## 11:30am - 2:40pm

Presenter at Poster	Title	Presenter(s) (Class)	East/ West
	Thimerosal	Corey Brown, Belinda Phan, Courtney Hollingsworth, Chaun Gandolfo, Rachel Meyer	W
<b>LB 415</b>	Mathematics in the Real World	Fei Yuan, Michael Ford, Adam Bricker, Edward Roginski	E
	Mathematics in the Real World	Aaron Hardy, Jon Gilbert, Russell Zarras, Jason Jock, Clayton DeVault, Marco Santia	E
	Mathematics in the Real World	Mandalyn Starski	E
<b>12:20-2:30pm</b>	<b>Materials Science</b>	<b>LB 492 Presentations</b>	E/W
	Memory Metal for Bone Implants	Amy Fiedler	E
	Carbon Nanotubes for the Space Elevator	Nick Lichorobiec	E
	Artificial Bone Ceramics	Matt Nies	E
	Carbon Nanotubes	Ali Saleem	E
	Indium Tin Oxide- A Transparent Conductor	Liz Mundy	E
	Solar Cells	Murad Karadsheh	E
	Biocompatible Metals for Bone Implants	Justyne Matheny	E
	Amorphous Metals	Matthew Mangliers	E
	Artificial Bone Ceramics	Kevin Patterson	W
	Solar Cells	Sarah Schroeder	W
	Impact of Calcium on Struvite Precipitation from Anaerobically Digested Dairy Water	Natalie Poirier	W
	Diamond and Diamond Thin Films	Paul Mulvey	W
	Artificial Bone Ceramics	Patrick Atisha	W
	Solar Cels	Hayley Alperstein	W
	Memory Metal Alloys	Matthew Field	W
	Titanium and Titanium Alloys	Tom Bussineau	W
	Fiber Optics	Meghan Kelley	W



# Monday Poster Presentations in East/West Lounges

## 11:30am - 2:40pm

Presenter at Poster	Title	Presenter(s) (Class)	East/ West
<b>1:50-2:40</b>			
<b>MMG499</b>	Characterization of the HrpL regulon in plant pathogenic <i>Erwinia amylovora</i>	David Ottarson	E
<b>NSC</b>	Sustainable Eating: An Everyday Environmental Ethic	Jessica Rogner	E
<b>Research</b>	Quantitative Investigation of Biochemistry Performance	Matthew Rauschenberger	E

# Monday Poster Presentations in East/West Lounges

## 3:00pm - 5:00pm

Presenter at Poster 3:00-3:50pm	Title	Presenter(s) (Class)	East/ West
		<i>LB 172 Presentations</i>	
	Prozac	Maren McMahon, Sydney Faylor, Kaitlyn Beels	E
	Double-Edged Chemicals: Fluoride	Adam Soheim, Nick Rochte, Kevin Werner	E
	Olestra	Yvonne DePorre, Sarah Overcashier, Laura Collins	E
	DDT	Amanda Doyle, Kate DeVries, Madeline Lipp	E
	Thalidomide	Kristina Knirk, David Harsini, Megan Courtley	E
	Methylphenidate	Allison Gola, Ben Mayne, Nicole Zokvic	E
	Prozac	Kaitlyn Beels, Maren McMahon, Sydney Faylor	E
	Thimerosal	Ellyse Cipolla, casey walter, victoria braman, dale waldo	E
	Double-Edged Chemicals: BOTOX	Jillian Harold, Lukas Barnes, Sam Cencer, David Oeffner	E
	Accutane: a cure worth the side effects?	Kathryn Larter, Samantha Dietz, Timothy Norton, Gregory Cadman	E
	Thimerosal	Mike Mulier, Ariel McConnell, Ian La Valley, Jon Wong	W
	Bovine Growth Hormone	Alyssa Seel, Alexandra Moody, Justin Wintman, Matthew Schmidt	W
	Prozac	Alexander Martin, Josh Cambridge, Sean Joseph, Mike Butz	W
	Pseudoephedrine	Riley Goodrich, Josh Andaloro, Jessie Biermann, Sirisha Yellayi	W
	Double Edged Chemicals: Prozac	Pallvi Singh, Lauren Duggan, Theresa Fisher, Grace Hirzel, Aditi Upadhye	W
	Ritalin: A Double-Edged Chemical	Susan Moon, Jack Densmore, Shelley Lee, Dillon Cogan, Arash Banisafar	W
	Botox	Sophie Rutkowski, Ray Faber, Robert Pemberton, Laurene Liska, Ashley McNamara	W
	Double-Edged Chemical - Asbestos	Kelsey Hopper, Jared Guttman, Ramsey Kadri, Nathan Erinjeri, Michael Koski	W
	Methylphenidate a.k.a. Ritalin	Amber Faasen, Evan Ballard, John Roedel, Ryan McIntosh, Nick Thaler	W
		Dominic DeMarco, Jesse Fogleman, Mitch Wood, William Johnson, Yan Sidronio	E
<b>LB 415</b>	Mathematics in the Real World		E
	Mathematics in the Real World	Brian Moore	E

## Monday Poster Presentations in East/West Lounges 3:00pm - 5:00pm

Presenter at Poster	Title	Presenter(s) (Class)	East/ West
<b>MMG499</b>	Identification of Residues Essential for Abasic Site-Specific DNA Lyase Activity of Human ABH1	Megan Andrzejak	W
<b>MMG499</b>	Investigations into the nickel-dependent stabilization of a UreG-UreE complex via site-directed mutagenesis	Brittnie DeVries	W
<b>Research</b>	Identification of Mutation 1078delT in the CFTR Gene in S9 epithelial cell from a CF patient Using Allele Specific PCR	Kortnee Calkins	W
<b>4:10-5:00pm</b>			
<b>LB 415</b>	Mathematics in the Real World	Kevin Wojick, Adrian Valverde, Yingtian Yu, Amir Ouyed, Zhenwei Guo	E
	Mathematics in the Real World	Russell Colburn	E

## Monday Poster Presentations in East/West Lounges 6:00pm - 8:00pm

	Title	Presenter(s) (Class)	East/ West
<b>LB145</b>	Development of Assay for E60X CFTR Mutation in IB3 Cell Lines Using PCR and Statistical Analysis of Medical Compliance	Andrew Brown	E
<b>LB145</b>	Development of Diagnostic Assay to Test for Absence of E60X Mutation in Wild Type IB3 Cells Using PCR Amplification	Kyle McDonald	E
<b>LB145</b>	Yaku Primer Design Method for PCR Inconclusive in Identification of the G542X Mutation of CFTR in IB3 Cells	Kelsey DeLand	E
<b>LB172</b>	The Chemistry of Acid Rain	Emily Schmitt-Matzen	E
<b>SO216</b>	Gender Inequality in the STEM Fields	Beverly Bell	E
<b>Research</b>	Research on Mars: Limitations in a Martian Analog Environment	Mike Moran	E
<b>CEM186H</b>	Steric-Induced Topological Diversity in Zinc Bis(4-pyridylmethyl)piperazine Coordination Polymers with Substituted Isophthalate Ligands	Amy Pochodylo	E
<b>LB145</b>	Developing & validating a new multiplex PCR assay for identification of CFTR mutations unique to the Mexican Population	Jayme Olsen	E

## Tuesday Poster Presentations in East/West Lounges

### 10:00am - 1:30pm

Presenter at Poster	Title	Presenter(s) (Class)	East/ West
<b>10:20-11:40</b>		<i>LBS 144 Posters</i>	
	Effects of Temperature on Harvester Ant Tunnel Lengths	Tessa Roux, Kelsey Fenner, Kayle Noble, Katelyn Gerstenberger, Jenna Serino	E
	The Effect of Varying Colored Light on Fast Plants	Kisha Churchwell	E
	Competition between Daphnia and Moina	Carrie Kozel, Cassie Wieckhorst, Danielle Sullivan	E
	Effects of Sunlight on Plant Growth: South Side Vs. North Side	Evan Ballard, Corey Brown, Michelle Dodge, Alli Pearson	E
	The Effects of Human Population on Microbial Biodiversity	Zach Slagel, Kevin Werner, Jake Uebler, Anthony Dimovski	E
	The affects of temperature on chocolate chip sea stars	Anthony Watkins , Cassidy Cisneros, Hannah Wadsworth, Ben Freeman	E
	The effects of light-colored environments on ladybugs	sana nadeemullah, tina ok, phuong nguyen, charlie messerly	E
	Using herbicide to eradicate the spread of aquatic plants (specifically Eurasian Water Milfoil)	Joel Peven, Ian Eldred, Alexandra Pierce, Denise Hubbard	E
	The Social Interactions and Behaviors behind Pheromone Secretion in Red Harvester Ants; How Red Harvester Ants have a te	Sachin Sharma, Dana Balek, Sarah Semegen, Destiney Ray	E
	Worms Weight/Fertilizer	Martin Mugerian, Jesse Moore, holly vredevelt, jennifer holbrook	E
	The effects of pH on the weight and survivorship of the red worm, Eisenia fetida	Kayla Mosey, Chamira Cole, Ashley Leach, Lachelle Devoe	E
	Temperature Effects on Cricket Chirp Frequency	Emily Martinez, Alicia Lasenby, Cory Hanrahan, Latoya Williams	E
	The Ting Tingz (with a Z)	Alex Borton, Ibrahim Wasti, Christine Plichta, Maggie Lubarski	E
	Effects Of Over Crowding On Bean Plants	Cassandra Clay, Jacob Ghannam, Rachel Plawecki, Michael McDowell	E
	The effect of human traffic on bird feeding patterns	Jessica Koczynski, Erik Carr, Dana Castle, Monica Pomaville	W

## Tuesday Poster Presentations in East/West Lounges

### 10:00am - 1:30pm

Presenter at Poster	Title	Presenter(s) (Class)	East/ West
	Effects of Salt Concentrations on Plant Growth	Christine Rygiel, Jasmine Cox, Emily Fox, Robert James	W
	Amadillidiums and There Ecologecal Niche	Brian Harvey, Felicia Harmon, Kiara Whitsell, Samuel Tibebe	W
	Effects of earthworms on plant growth	Rachel Nestor, Shannon Varner, Adalis Sifuentes, Sean Joseph	W
	The effects of glucose supplementation on plant growth	Ryan Chandler, Alex Chavez-Yenter, Eric Foster, Tom Grill	W
	Effect of pH on the Hatching and Growth Rates of Brine Shrimp	Erica Hartwig, Somers Smott, Lydia Kraner, Dayna Rein, Alysa Butz	W
	The Effects of Extreme Temperatures on Consumption Rates of Male and Female Cockroaches	Nicolas Waldecker, Desirae Yeomans, Jordan Garcia, Holly Needham, Corey Cox	W
	Reproduction Rate of Ramhorn Snails in Various Water Temperatures	Akua Nuamah, Simone Hardy, Kari Schichtel, Victoria Thomas, Jessica Ray	W
	Honeybee Color Recognition in a Classical Conditioning Model	Lynne Davis, Zach Gaudette, Meg English, Lynne Davis, Kristin Elinski	W
	Color Preference in Lepidoptera	Sarahbeth Barlas, Hanin Masboob, Ericka Chant, Emily Bohne, Michael Butz	W
	The affect of acidity on plant growth	Erin Fletcher, Monika Bhatt, Anuj Rama, Pallvi Singh, Samita Shah	W
	Effects of Vitamins on Worm Growth	Beri Bragiel, Liz Lian, Tony Atangana, and Chevez Graham	W
<b>LB 145</b>	Public Reaction to Cystic Fibrosis vs. Homosexuality	Christine Plichta	W
	Phenotypic and Genetic Characterization of Fruit Surface		
<b>Research</b>	Mutants of Tomato	David Hufnagel	W
	The Molecular Foundations of Life: Examining the Work of Roger		
<b>LB 172</b>	D. Kornberg	Graden Barnes	W
	Detection of CFTR mutation W1282X in IB3 human DNA with		
<b>Research</b>	band length of 884 base pairs using PCR and Gel Electrophoresis	Chelsy Mahon	W