

10th annual

***Lyman Briggs
Research Symposium
Supported by MSUFCU
April 25-28, 2016***



Complete Schedule



**LYMAN BRIGGS
COLLEGE**

**MICHIGAN STATE
UNIVERSITY**

Classes Participating

Room	Specific Time	Class	Title
Monday Oral Presentations			
C7	3:00-5:50pm	LB 172L 007	Chemistry 2 Lab
C7	3:00-5:50pm	LB 172L 001	Chemistry 2 Lab
C7	7:00-9:50pm	LB 172L 002, 15	Chemistry 2 Lab

Monday Poster Presentations			
Both Lounges	9:10-10:00am	LB 172	Chemistry and Our Environment
	10:10-11:00am	LB 172	Chemistry and Our Environment
	12:40-1:30pm	LB 172	Chemistry and Our Environment
	12:40-2:30pm	LB 492	Health and Environmental Impacts of Food
	1:50-2:40pm	LB 171	Double Edged Chemicals
	3:00-3:50pm	LB 172	Chemistry and Our Environment

6-8pm

MSUFCU General Poster Session

Tuesday Oral Presentations			
C7	8:00-10:50am	LB 172L 003	Chemistry 2 Lab
W40	10:20-12:20	LB 492	Senior Seminar
C7	11:30a-2:20pm	LB 172L 004	Chemistry 2 Lab
C103	3:00-4:50	LB 335	Natural Capitalism
C7	3:00-5:50pm	LB 172L 005	Chemistry 2 Lab
C103	5:20-7:10	LB 332 002	
C7	7:00-9:50pm	LB 172L 006, 018	Chemistry 2 Lab

Classes Participating

Room	Specific Time	Class	Title
East Lounge			
Tuesday Poster Presentations			
	12:40-2:00pm	LB 145	Molecular Biology Research
	2:30-4:00pm	LB 145	Molecular Biology Research
	3:00-5:50pm	LB 492	Sociological Research in a Hospital Setting
	4:00-5:00pm	LB 144	Organismal Biology Research
	8:00-9:00pm	LB 144	Organismal Biology Research
Wednesday Oral Presentations			
C7	3:00-5:50pm	LB 172L 009, 019	Chemistry 2 Lab
C7	7:00-9:50pm	LB 172L 010	Chemistry 2 Lab
Central Hall Basement			
Tuesday Poster Presentations			
	4:00-5:00pm	LB 144	Organismal Biology Research
Thursday Oral Presentations			
C7	8:00-10:50am	LB 172L 011, 021	Chemistry 2 Lab
W40	10:20-12:20	LB 492	Senior Seminar
C7	11:30a-2:20pm	LB 172L 012, 022	Chemistry 2 Lab
C7	3:00-5:50pm	LB 172L 013	Chemistry 2 Lab
C7	7:00-9:50pm	LB 172L 014, 024	Chemistry 2 Lab

Classes Participating

Room	Specific Time	Class	Title
Central Hall Basement			Thursday Poster Presentations
	4:00-5:00pm	LB 144	Organismal Biology Research
	7:00-9:00	BS 191H	Molecular Biology Honors Resesarch
	8:00-9:00pm	LB 144	Organismal Biology Research

Monday Oral Presentations

Room	Specific Time	Title	Presenter(s) (Class)
C7	11:30-2pm		LB 172L 007
	1	Cation capacity and fertility of soils from different countries	Matt Bunney, Zoe Wilton, James Kauvlich, Jessie Plaehen
	2	Medicinal purposes of ferrofluids	Ricardo Aquino, Christian Perry, Matthew Ferrari
	3	A compariosn of stated compsoition and analysis finding of gatorade	Pooja Dandamundi, Lindsie Edgie, Edmund Wooldridge, Jack Vernocke
C7	3:00-5:50		LB 172L 001
	1	TBD	
	2		
	3		
	4		
	5		
	6		
	7		
C7	7:00-9:50p		LB 172L 002, 15
	1	Research of an interesting reaction,including discussion of the elementary steps	Danny Gieselman, Craig DeClerck, Yasmeen Pihlgren
	2	everyday lives (blood, the environment)	Sumitpal Barn, Joe D, Salman C
	3	A comprhensive examination of a womens and mens multivitamin	Anita D, Katie W, Caleb H, Abriona M
	4	synthesized compounds such as the cobalt molecule crystals	Jake S, Sreya M, Isabella F, Kennedy S
	5	Investigation of partition coefficients in relation to breathlyzer tests and their accuracy.	Robert B, Hannah L., Maddie V. E., Megan W.
	6	red Cedar River	Marcella, Taylor, Chasm
	7	A research on the effects, implication, casues and chemistry of algal bloom in the great lakes	Mikayla Green, Brianna Martinez, Hannah Walker
	8	A look at the composition of commonly used products	James Liu, Tony Incorvati, Garrette Helber
	9	A look at the concentration of micronutrients in different vitamins on the market	Natalie Emerick, Tyler Declercq, Madison Wilson, Al Shoopman

Monday Poster Presentations in East/West Lounges

Displayed Timeslot Morning	Presenter at Poster	Title	Presenter(s) (Class)	East/West
9:00-11:10am	9:10-10:00am		<i>LB 172 Presentations</i>	
		Effects of deforestation	Slade Martin, James Kavulich , James Liu, Patrick Mucci, Cam Kozik	E(1)
		Environmental Effects of Meat Production	Matt Vander Ploeg, Alexander Kravaritis, Jessica Saadeh, Connor Stabnick, Jon Skjaerlund	E(3)
		Effects of Ocean Acidification on Coral Reefs	Sabrina Bronni, Drew Levine, Samantha Marol, Kollin Poindexter, Kaylan Hayman, James Mctighe	E(5)
		Methane Production From Cows	Erin Pete, James Jabara, Katelynn Barkell, Nicholas Wanczyk, Taylor Draper	E(7)
		Environmental Effects of Acid Rain	Shangari Varatharajan, Anika Sondhi, Andrew McLocklin, Julie Lor, Neal Adams	E(9)
		Fossil Fuels vs Renewable Energy	Brendan Nowakowski, Lindsey Hood, Phong Los	E(11)
		the Water Cycle	Gina Semaan, Olivia Ghannam, Sally Wicks, Rachel Jansen	E(13)
		Effects of Waste Disposal and Contamination on Water	Nicolette Stevanovski, David Kasperski, Alice Wynn, Jessica Bourbeau	E(15)
		Algal Blooms	Suhana Posani, Sahana Bommareddy, Manvir Sandhu, Gabrielle Curtis, Anjali Joshi	E(17)
		Effects of gas and Oil drilling on the Environment	Caroline Piecuch, Kaitlyn Krus, Pooja Dandamudi	E(19)
		Bee Deaths & Their Effects on The Environment	Elise Maynard, Keegan Coles, John Estapa	E(21)
		Environmental Effects of Meat Production	Matt Vander Ploeg, Alexander Kravaritis, Jessica Saadeh, Connor Stabnick, Jon Skjaerlund	E(23)
		How Rising Temperature is Affecting Fish Populations in Lake Michigan.	Collin Hudson, Collin Oosse, Brandon Luczak	E(25)
	10:20-11:10am		<i>LB 172 Presentations</i>	
		SPF: Deadly?	Ann Durbin, Christian Perry, Haley Fulco, Kalee Rumpfelt	W(2)
		Hurricanes and Severe Weather	Sydney Yourke, Madison Kirby, Joe Adams	W(3)
		Impact of Power Plants	Chloe Gordon, Bailey Borycki, Gino Caruso	W(4)
		Volcano's Effect on Global Warming	Katie Edwards, Rozzie Bloch	W(6)
		Agricultural Methane	Lindsie Egedy, Tyler Declercq, Devyn Johnson	W(8)
		Environment	Allison Loch, Julianna Schneider , Bramyn Payne, Alexis Ly	W(10)
		Coral Bleaching	Andrew Najor, Charles Tobin, Salman Chaudry	W(12)

Monday Poster Presentations in East/West Lounges

Displayed Timeslot	Presenter at Poster	Title	Presenter(s) (Class)	East/West
		The Crude Truth About Oil	Abigail Miller, Audrey Drotos, Andrew AbiRagi, Brandon Batarse	W(14)
		Human Impact on Ozone	Ellie Paulson, Leah Manimaletu, Ritika Golechha, Sumitpal Barn	W(16)
		California Methane Leak	Opalikhin	W(18)
		Flint Water Crisis	Whyte	W(20)
		More Than Hot Air	Isabella Frownfelter, Michaela Methner, Abigail Bryson	W(22)
		The Effects of Radiation on the Environment	Makayla Schueler, Deepika Bandarupalli, Grant Allen	E(2)
		Deforestation of the Amazon and its Effect on the Environment	Alyssa Jorgensen, Jake Hoofman, Dylan Mankel, Aditya Shah	E(4)
		Environmental Impacts of Atrazine	Brianna Martinez, Tatum Kenrick, Jacob Gantz	E(6)
		Saving Michigan: S.S. Badger Steps Up	Allison Vlk, Molly McSween, Megan Wild, Maylyn Wu	E(8)
		Fracking: An Earth Shattering Controversy Volcanoes eruptions affect on the environment	Riley Woerner, Katelyn Mueller, Alexis Wood, Maxwell VanSpronsen, Mayank Jayaram	E(10)
			Genesha Burton, Emily Bernhardt, Alex Babbitt	E(12)
		Animal Agriculture: Effects of the Beef Industry on Climate Change	Abigail Stringer, Michael Marchiori, Phaiguni Kulkarni, Jawad Farhat	E(14)
		Eutricification within Different Bodies of Water	Matthew Bunney, Jake Williams, Phoebe Holmes, Catelyn Zuhl	E(16)
		The effects and analysis of Chlorofluorocarbons	Carly Finegan, Jessie Plaehn, Emily Nieckula	E(18)
		Fertilizer Impact on the Environment	Megan Colligan, Johnny Stathakios, Katie Wheeler	E(20)
		Got Mercury?	Christian Dondonan, Lauren Ott, Jaewon Heo, Edmund Wooldridge	E(22)
		California Methane Leak	Anne Opalikhin, Bruce Proctor, Dane Brennan, Ryan Bean, Adam Barrett	E(24)
		Agricultural Methane	Lindsie Egedy, Devyn Johnson, Tyler Declercq	E(26)
12:40pm-2:40pm	12:40-1:30		<i>LB 172 Presentations</i>	
		Ocean Acidification	Kellie Gelmini, Diba Ossareh, Jaeina Limbo, Molly Griffin, Julia Michienzi	E(1)
		Flint Water Crisis	Benjamin Horne, Sabrina Cleis, Ashley Nance-Panek, Hannah Walker, Chase Anderson	E(3)
		'Water' Some Issues with Mercury?	Lauren Mileto, Yeshkirat Kaur, Elise Fournier, Kaitlyn Luce, Erin Nash	E(5)

Monday Poster Presentations in East/West Lounges

Displayed Timeslot	Presenter at Poster	Title	Presenter(s) (Class)	East/West
		Ocean Acidification	Jordan Stasch, Akhil Damidi, Katie Hammond, Timothy Nguyen, Fallon Williams, Beena Haque	E(7)
		Energy Input versus Atmospheric Output of Cars	Natalie Emerick, Divya Yerramsetty, Luke Witzke, Lane Proctor, Robert Brosig	E(9)
		Oils spills' Environmental Effects and Cleanup Methods	Akshay Damidi, Sreekar Malempati, Manny Kochar, Jake Nitzkin	E(11)
		Agricultural Methane Production	Adam Kibiloski, Lauren Eby, Islam Said, Jesse Szarowicz	E(13)
		Oxygen levels in water and fish migration patterns	Emily Gildersleeve, Craig Luca, Erik Eikey, Mckenna Balian	E(15)
		Mercury Effects on Wildlife	Shwetha Ramchandran, Zina Patel, Priyanka Sankaran , Amber Crumm	E(17)
		Water Bottles: Plastic Waste in Your Face	Sara Campbell, Briana Henderson, Selett Allen	W(1)
		How Climate Change Affects our Food Sources	Lydia Schlaefke, Lexie Griggs, Selena Simmerson	W(3)
		The Effect of Ocean Acidification on Coral Reefs	Paige Pieczarka, Riley Jarski, Emerald Horton, Oonagh McKenna, Sarah Genuwine	W(5)
		Phytoremediation	Megan Makela, Analise Kulpanowski, Madeline Van Eck, Paige Girdley	W(7)
		The Coral-ation of CO2 on the Great Barrier Reef	Elizabeth Finazzo, Elizabeth Barton, Kyleigh Buckley, Tom Charney, Lauren McGrath	W(9)
		Phytoremediation	Megan Makela, Analise Kulpanowski, Madeline Van Eck, Paige Girdley, Judy Chen	W(11)
		The Effect of CO2 on the Fish Population of the Great Lakes	Andrew Berry, Nicholas Zonca, Jared Burge, Eagan Ingrody, Armand Hess	W(13)
		The Impact of Ocean Acidification on the Life Cycle and Development of Calcifying Bivalves	Keenan O'Dea, Alexander Shoopman, Bob Urban, Tara Radford	W(15)
		Bees and the Environment: They Have Chemistry	Emily Lynch, Bailey Arnold, Kaley Balla, Ashley Greenlick, Neil Prakash	W(17)
		Harmful Effects of Pesticides on Bees	Cassie Dutcher, Brandon Llewellyn, Torel Beard, Jordan Fournier	W(19)
		Fracking and the environment	Sydney Kruse, Chiara Bowen, Tamara Porter, Justin Ralph	W(21)
		Environmental Impacts of Nitrogen Fertilizer	Lauren Wilcox, Sannah More , Caleb Hayhoe , Alex Sovel	W(23)

Monday Poster Presentations in East/West Lounges

Displayed Timeslot	Presenter at Poster	Title	Presenter(s) (Class)	East/West
LB 144		Our Trip to Big Bone Lick State Park and Cincinnati Zoo and Botanical Garden	Dominic Milano, Anika Sasinski, Isabella Colasanti, Ludovic Clavette-Lachapelle	W(22)
12:40pm-2:40pm	12:40pm-2:30pm	Health and Environmental Impacts of Food	<i>LB 492</i>	
		Anatomy of a Plate: A Dissection of the American Dinner	Morgan Potter, Kasey Pryg, Marisa Reynolds, Ross White	E(21)
		Sustainable Aquaculture	Alek Pasma, Cam Allie	E(22)
		Marketing of Food: "Buzzwords", Psychology, etc.	Jessica Zaleski, Michael McGregor, Corbin Pontious, Michael Azara	E(23)
		Consumer Ethics in Food	Jacob Pristas, Jon Schiff, Jordan Smeenge	E(24)
		Social Injustice of Fast Food Workers	Showlin Salam, Miles Hudson	E(25)

Monday Poster Presentations in East/West Lounges

Displayed Timeslot	Presenter at Poster	Title	Presenter(s) (Class)	East/ West
12:40pm-2:40pm	1:50-2:40pm		<i>LB 171 Presentations</i>	
		Rivaroxoban: A Blood Thinner	Malcolm Davis, Dani Rhem, Brianna Davis	E(2)
		Dopamine	Alana Smith, Tiera Mosley, Jared	E(4)
		Microbeads	Jenna Le, Chase Dobbs, Bailey Lundholm, Griffin McNeilly	E(6)
		Naloxone	Diana Morse, Minisha Kanakarajan, Kristen Breaks	E(8)
		Caffeine	Isabel Cary, Gianna DeSimone, Diamond Scales	E(10)
		Prozac	Julia Jarvis, Camery Abrams, Kaitlyn Meiste	E(12)
		Morphine	Randi Ricker, Kristin Fuller, Emily Butler, Chemere Mathis	E(14)
		Monensin	Lauren Stiffler, Grace Mansour, Jose Ramos, Emily Liddicoat	E(16)
		Methadone: Impacts on the Individual and Society	Kathryn Potbury, Nadja Hall, Eric Zelichowski	E(18)
		Telozolomide	Summer Maurer, Rachel Best, Kellie Lambie, Marissa Leonard	E(20)

Monday Poster Presentations in East/West Lounges

Displayed Timeslot	Presenter at Poster	Title	Presenter(s) (Class)	East/West
3:00-5:00	3:00-3:50pm		<i>LB 172 Presentations</i>	
		Electric Vehicles and their Impact on Greenhouse Gas Emission	Helen Jeffers, Hannah Lufkin, Olivia Mackraz, Madeline Bresson	E(1)
		Ocean Eutrophication and the Environmental Impact	Carly Suriano, Zane Alroshood, Joseph Dziedziula, Nick Garnett	E(3)
		Cow Farts and Methane	Chitra Lakshumanan, Sreya Modepalli, Grace Ignatious, Ammaar Ikram	E(5)
		Acid Rain	Nick Corsi, Nick Theisen, Claire Nader, Gautam Pandrangi, Kayley Langlands	E(7)
		Eutrophication	Omar Said, Sena Alado, Abby Meyers, Alex Blunden, Erik Witt, Jake Spitsbergen	E(9)
		Pesticides	Arielle Davidson, Claudia Petrucco, Varun Nandamudi, Montgomery Frankfort, Danielle Sherman	E(11)
		Farming Practices	Alexa Magsoudi, Callie Moffett, Kris Rygiel, Hannah Zawisa	E(13)
		Nuclear Energy	Janith Jayatilake, Calley Casey, Analicia Montaner, David Posawatz	E(15)
		Farming Practices	Kristopher Rygiel, Callie Moffett, Hannah Zawisa, Alexa Magsoudi	E(17)
		Coral Reef Depletion	Tasneem Bahar, Kaitlyn Rau, Julianna Lakatos, Adrienne Thomas, Zoe Wilton	E(19)
		How Pesticides affect the Great Lakes	Daniel Gieselmann, Craig DeClerck, Robert Mothersell, Yasmeen Pihlgren, Alaina Lie	E(21)
		Agricultural Effects on the Environment	Elizabeth Remer, Alison Lyijynen, Evan Tangalos, Amanda Griffin, Waseem Syed	E(23)
		Global Warming's effect on Ocean Salinity	Hope Healey, Michaela Kratofil, Joseph Preston, Maggie Brown, Kevin Quiros Martinez	E(25)
		Correlation Between Car Emissions and Acid Rain	Sarah Thomas, Ellie Phillips, Christopher Martinak, Benjamin Brown	W(1)
		Depletion of Ozone	Dhruva Govil, Marc Maldaver, Ricardo Aquino, Matthew Horuath, John Monterosso	W(3)
		Ocean Acidification	Briaunna Hughes, Mikki Smith, Ellary Marano, Divya Nair, Ryan Hackenberger	W(5)
		Loss of Biodiversity in the Great Lakes	Madison Wilson, Raiven Owusu, Matthew Ferrari, Garrette Helber, Jack Vernocke	W(7)
		Climate Change's Impact on Crops	Megan Mulheron, Emily Chen, Gabe Franks, Zach Raad, Sravya Mallajosyula	W(9)

Monday Poster Presentations in East/West Lounges

Displayed Timeslot	Presenter at Poster	Title	Presenter(s) (Class)	East/West
		Environmental Impacts on fish in Great Lakes region	Sophia Potter, Xue Lin Wang, Yonathan Hodish, Taylor Pelland, Nicholas Carbonell	W(11)
		Flint Water Crisis	Riley Moore, Hailey Arment, Joanna Vuylsteke, Taryn Stefanski	W(13)
		The Run-Off Issue	Vanessa Tan, Dan Jian, Emily Nemeth, Sarah Kramer, Jenn Semaan	W(15)
		Deforestation	Divya Patel, Rafael Bernal, Zack Woloszyk , Emily Kurjan	W(17)
		Effects of Pharmaceuticals Flushed down the Toilet on Water Sources	Alexis Tangelos, Adam Artzberger, Anita Dharwadkar, Abriona Mays	W(19)
		Nuclear Effects on the Environment: The Case in Japan	Marilyn Zahrt, Austin Frisch, Karly Wilson, Breandan Oatman, Reya Malhotra	W(21)
		Deforestation, the Rainforest, and Us	Charmonique Maye, Sierra Tolbert, Brianna Rice, Imani Jefferson, Ashley Hulet	W(2)
				W(4)
		Depletion of Ozone	Dhruva Govil, John Monterosso, Matt Horvath, Marc Maldaver	W(6)
		is Invasive Species in the Great Lakes	Kelly Blakemore, Davin Hami, Ryan Maue, Margaret McDonald, Kennedy Sawicki and Katie Schram	W(8)
LB 172		Linus Pauling: Double Nobel Prize Winner	Katie Wheeler	W(10)

Monday Poster Presentations in East/West Lounges

Displayed Timeslot	Presenter at Poster	Title	Presenter(s) (Class)	East/West
Evening 6-8pm			 MSUFCU Poster Session	
		Investigating Expression of Reuterin Associated genes in Lactobacillus reuteri JCM1112 in Pathogen Conditioned media	Ognenka Avramovska, Jennifer Hackler, So Kim	E(1)
		Birds of a Feather	Abigail Bryson	E(2)
		The technical and performance characteristics of a low-cost, simply-constructed black light insect trap	Katharine Glover, Joel Stewart, Amanda Rice, Peter White	E(3)
		Future of Fuel: Catalyst Aided Deconstruction of Lignocellulosic Biomass	Rachel Semaan	E(4)
		T-type Voltage-gated Ca ²⁺ channels do not contribute to the negative feedback regulation of myogenic tone in murine superior epigastric arteries	Brendan Mullan, Jessica Pettis, William Jackson	E(5)
		The influence of YM-1 derivatives on the degradation of misfiled polyglutamine androgen receptor in models of spinal and bulbar muscular atrophy	Char Panek	E(6)
		Role of NANOG in adipose tissue-induced transformation of mouse epidermal JB6 P+ cells	Ellen Weise, Debrup Chakraborty, Mercedes Reyna, Blair Bullard, Jamie Bernard	E(7)
		The effects of habitat fragmentation on herbivory and growth of Carphophorus bellidifolius	Meg Kargul	E(8)
		Apolipoprotein E ?4 interaction with neuropsychiatric symptoms in Alzheimer's Disease and Mild Cognitive Impairment	Mehma Singh, Michelle McKenna	E(9)
		Examining the Environmental Conditions that Elicit Biofilm Formation in Pseudomonas and Serratia Strains	Jesse Kato	E(10)
		Phenotypic and Functional Differences Associated with EAT-2 in NK Cells	Lekha Bapu	E(11)
		Variation of Acylsugar Acyltransferase Function in the Synthesis of an Insect Defense Compound: Acylsugars	Abigail Miller, Pengxiang Fan, Robert Last	E(12)

Monday Poster Presentations in East/West Lounges

Displayed Timeslot	Presenter at Poster	Title	Presenter(s) (Class)	East/West
		Psychological And Neurobiological Mechanisms Underlying 'Hedonic Hallucinations' In Rats	Jillian Mullally	E(13)
		How Does Estrogen Plus Progestin Hormonal Therapy Increase Breast Cancer Risk?	Ryan Hook	E(14)
		Altered intestinal mucus production in estrogen deficiency is associated with bone loss	Daniel Schoenherr, Sandi Raehtz, Laura McCabe	E(15)
		Loss of Homeostatic Cellular Tension in Rat Tail Tendons Increases Prostaglandin-E2 and Substance P Production	Jacqueline Brooks, Keri Gardner, Steven Arnoczky	E(16)
		Honors Option LB 144: The Theory of Extinction and Conservation	Isabelle Correia, Courtney Senkewitz, Hanna Martines	E(17)
		Diabetes-induced increase in number of circulating exosomes as mechanism for pathogenesis of diabetic retinopathy	Kiera Fisher	E(18)
		Microbial Community Assessment of Lone Star Ticks from Athens, GA	Sydney Barosko	E(19)
		Creating fluorescent strains of Sinorhizobium from Escherichia coli donor plasmids through triparental mating	Emily McLachlan	E(20)
		Frequency of Salmonella infections in four Michigan hospitals	Jessica Plemmons	E(21)
		Expression of Core Antigenic Protein Genes From Bovine Leukemia Virus in Escherichia coli	Rachel Courville, Justin DeKiuper, Paul Coussens	E(22)
		Nonsense and Rubbish: Identifying Targets and Roles of Nonsense Mediated mRNA Decay	Magie Williams	E(23)
		Phylogenetic group association and antibacterial resistance of E.coli responsible for Urinary Tract Infection	So Kim	E(24)
		Second Format Transitions in Stuttering Persistence And Recovery	Jake Nitzkin	E(25)

Monday Poster Presentations in East/West Lounges

Displayed Timeslot	Presenter at Poster	Title	Presenter(s) (Class)	East/West
		Reflections of Our Honors Biology Trip for LB144	Josilyn Clark, Megan Wudkewych, Hannah Weatherford, Hannah Gloede	E(26)
		The Overlooked Epidemic: An Analysis of Sexual Risk Behaviors Among Older Adults	Megan Penzkofer	W(1)
		Environmentally Friendly Home	Gina Pizzo	W(2)
		Relationships between cognitive proficiencies in typically developing preschool-age children	Emily Chen, Alexis Nedanis	W(3)
		Attention and Arousal to Inhibition Impairments in Schizophrenia: a Pupillometry Study	Kassidy Fifer	W(4)
		Differentiating Between Stuttering and Normal Disfluency in Children	Kelly Jones, Nicole Macker	W(5)
		Properties of the Roots of Tribonacci-Type Polynomials	Huei Sears, Alexander Durbin	W(6)
			Michael McGregor	W(7)
		Injustice of fat and sugar: Food insecurity, access and harvests in rural Tribal communities	Marilyn Werner	W(8)
		Data Analysis of Rice Abundance Between Lakes Managed and Unmanaged for Beaver	Ashley Archer	W(9)
		Differences between sauces made with buffalo milk butter and cow milk butter	Abigail Harbourne	W(10)
		Improving Students' Understanding of London Dispersion Forces through Characterization of Student Explanations	Keenan Noyes	W(11)
		Determining Differences in Student Learning Using Simulations and Screencasts	Alec Shrode	W(12)
		Peer Support Promotes Success in STEM	Alysha Machuta, Ryan Sweeder, Phillip Strong	W(13)
		Effect of Pyridyl Donor Disposition and Ligand Flexibility on Dimensionality in Luminescent and Nitrobenzene-detecting C	Robert LaDuca, Cassi LaRose	W(14)

Monday Poster Presentations in East/West Lounges

Displayed Timeslot	Presenter at Poster	Title	Presenter(s) (Class)	East/West
		Chemical Route Optimization of Indole Compounds	Olivia Goethe, Denis Billen	W(15)
		Cr(VI) Detection in Non-Chromate Pretreatments for Corrosion Inhibition in Aluminum Alloys	Rodolfo Estrada, Brandon Whitman	W(16)
		Water Testing Using Nanochromatography	Dhruva Govil	W(17)
		Close Encounters: The Chemistry of Cross-Linking in ACLs	Sreya Modepalli	W(18)
		Deforestation and the Associated Environmental Effects	Dan Jian	W(19)
		Marie Curie	Joanna Vuylsteke	W(20)
		Françoise Barré-Sinoussi: Discovering the Origins of HIV	Isabella Frownfelter, Audrey Drotos	W(21)
		Restriction Enzyme Digestion and Religation	Elise Fournier	W(22)
		Obtaining Hydrogen for Fuel Cell through Electrolysis of Water	Ricardo Aquino	W(23)
		Ocean Acidification: Deshelling the Problem	Riley Moore	W(24)

Tuesday Oral Presentations

Room	Specific Time	Title	Presenter(s) (Class)
C7	8:00-10:50a		LB 172L 003
	1	further exploration of applications for biodiesel	Islam Said, Abby Meyers, Cassie Dutcher
	2	The formation of crystals in the synthesis of cobalt complexes.	Blakemore
	3	MSU effect on the Red Cedar River	Garberding
	4	environmental impacts based off watershed and acid effects on soil lab, applying Beer Lambert plot, pH and other chemistry principles	Alexa Magsoudi, Paige Pieczarka, Tasneem Bahar, Juliana lakatos
	5	A series of different elementary steps for the intermediate form	Arnold
W-40	10:20-12:20		LB 492
10:20		Reproductive Health and Structural Violence against Women in the Developing World	Jennifer Beckner
10:35		Ocean Acidification: Detrimental Effects in the US and Feasible Solutions	John Bucknell
10:50		Why is Refusing Vaccines Becoming Popular and Future Implications	Haley Clark
11:05		Scientific Literacy in America: How to Change Unscientific America	Tyler Collins
11:20		Vaccination Refusals and Their Future Impact on Society	Anthony Diponio
11:35		The Need for Education Reform in America	Eric Fuller
11:50		Climate Change Communication	Sara Griffith
12:05		Reforming Primary and Secondary Education in America	Zachary Howell

Tuesday Oral Presentations

Room	Specific Time	Title	Presenter(s) (Class)
C7	11:30a-2:20p		LB 172L 004
	1	Serious Synthesis	Lexie Griggs, Andrew Najor, Rafael Bernal
	2	Fabulous Ferrofluids	Erin Nash, Zack Woloszyk, Corina Blanas, Kate Hammond
	3	Dissolved Carbon Chaos	Noor Abdallah, David Posawatz, Beena Haque
	4	What Went Wrong with Ferrofluids	Mckenna Balian, Allison Loch, Luke Witzke, Joe Adams
	5	Catastrophic Cation Conundrum	Brandon Batarse, Ashley Nance-Panek, Ellie Phillips
W-40	3:00-4:50p		LB 335
3:05-3:20		Better Biodegradables	Dominic Aluia, Zach Jansen, Mayank Jayaram, Tyler Weiss
3:20-3:35		Green Roofs: Plant It Real Good	Brandon Bloomfield, Ray Pruess, Brianna Volkhardt, Graham Wellens
3:35-3:50		Wipe McC(right) 2016	Alexandra Engelmann, Evan Flashner, Jillian Lubinger, Sarah Maslauski
4:00-4:15		Potato Packaging	Mariam Gesler, Nadja Hall, Brigh Niccum, Carly Suriano
4:15-4:30		Edible Straws	Antonia Langfeldt, Victoria Mutch, Gregory Pilchak, Xiaohong Shi
4:30-4:45		The Bambike	Ryan Grady, Gina Pizzo, Shruti Ravishankar, Haley Simpson, Van Tran

Tuesday Oral Presentations

Room	Specific Time	Title	Presenter(s) (Class)
C7	3:00-5:50p		LB 172L 005, 017
	1	LeChatelier's Principle and Its Application on Environmental Equilibrium Reactions	Olivia Ghannam, Brandon Llewellyn, & Brad Miller
	2	Comparing Cation Exchange Abilities in Different Types of Soils	Hope Healy, Sravya Mallajosyula, and Sydney Kruse
	3	The Benefits of Ion Exchange Resins in the Flint Water Crisis	Nicolette Stevanovski, Jaewon Heo, and Emily Nieckula
	4	Applications of Redox Reactions in Electric Cars	Gina Semaan, Emily Chen, Manvir Sandhu, Sahana Bommareddy
	5	Ferrofluids Applications in Medical Research	Chloe Gordon, Anika Sondhi, Maggie Brown & Raiven Owusu
	6	Analysis of the Vitamin Lab	Dhruva Govil, Nick Corsi, Jawad Farhat
	7	Ferrofluids used in Radiology and Medicine today	Emily Whyte, Jon S, Megan Makela, Claire Nader
	8	Soil Fertility	Kyleigh Buckley, Ashley Hulet, Jordan Stasch
	9	Application of Ferrofluids in Speaker Technologies	Divya Nair, Marc Maldaver, Keegan Coles
	10	Ferrofluids; tumor destroyer	Helen Jeffers, Dylan Smith, Devyn Johnson, Chris Martinak
	11	Henry's law; Environmental	Nicolas Theisen, James McTighe, Neal Adams
	12		Arielle Davidson, Breandan Oatman, Jacob Gantz, Jacob Hoofman
C-103	5:20-7:10p		LB 331
		Birth Control	David Walls, Drew Murasky, Lonsani Kabba, Cahlia Lanier, and Brian Pickwich
		Conception	Spencer Miller, Tony Allemon , Sami Abdelaziz , Angela Shermetaro

Tuesday Oral Presentations

Room	Specific Time	Title	Presenter(s) (Class)
C7	7-9:50p		LB 172L 006, 018
	1	Ferrofluids in Medicine	Emily, Kayley, Varun, Yeshkirat
	2	The Degredation of Soil Quality	Ben, Ryan, Zach
	3	How Greenhouse Gases Affect the Atmosphere	Lydia, Sreekar, Kellie, Jacob
	4	Ferrofluids in Space	Chiara, Ryan, Sarah
	5	Men's Multivitamins vs. Women's Multivitamins	Elise, Kaitlyn, Alaina
	6	Ferrofluids and Medicine	Riley Moore, Lizzie Finazzo, Hailey Arment
	7	Resin and Pharmaceuticals	Joanna Vuylsteke, Emerald Horton, Briaunna Hughes
	8	Soil Remediation	Carly Finegan, Lane Proctor, Nick Garnett
	9	Acid Base Chemistry on Dairy	Kollin Poindexter, Elise Fournier, John Estapa

Tuesday Poster Presentations

General Timeslot	Presenter with Poster	Title	Presenter(s)	Lounge
12:40-2:00	12:40-2:00			<i>LB 492</i> East Only
		Antibiotic Resistance as a Result of Surface Sterilant Usage in the Michigan State University Main Library	Kaleb Howard, Stephanie Hosko, Jillian Salloum, Madison Whyte	E(1)
		Antibiotic Resistance on Dining Hall Eating Utensils	Cody Paul, Sarah Provencher, Emma Talbot, Alex Sample	E(2)
		Antibiotic Resistant Bacteria at MSU and the U of M Student Health Center's Waiting Rooms	Emily Emerick, Cayla Smigieski, Karoline Knedgen, Ariana Hernandez	E(3)
		Antibiotic Resistance in Meridian Mall Food Court	Olivia Demarest, Yaman Dalati, Sarah Babijaev, Lilly Karchalla	E(4)
		Antibiotic-Resistant Bacteria Found on Workout Equipment in a College Fitness Facility	Marissa Lubarski, Carolyn Bussineau, Paige Lerner, Tyler Hendricks	E(5)
		A Study of Antibiotic Resistance in Michigan State Fraternity Houses and a Hospital Environment	Megan Wudkewych, Hanna Martines, Lucas Tobin, Hannah Yacoub	E(6)
		Comparison of Antibiotic Resistant Bacteria Amongst Children and College Students in Two Different Environments	Jake Vieau, Parker Cuthbert, Evan Flashner, Micheal Dube, and Emma Kennedy	E(7)
		Prevalence of Antibiotic Resistant Bacteria in University Elevator Buttons compared to CATA Buses	Jody Kremer, Kendall Huizenga, Josh Gira, Justin Ingram	E(8)
		Abundance and Antibiotic Resistance of Bacteria on Restaurant Chairs and Booster Seats	Olivia Favor, Angela Shermetaro, Lydia Ross, Hinal Patel	E(9)
		Antibiotic Resistant Bacteria on Non-organic and Organic Tomatoes	Camille Makowski, Isabella Colasanti, Julia Hage, Kora Pernia	E(10)
		Comparison of Bacteria from Public Surfaces	Sidney Thigpen, Emily Bernhardt, Jane Sirigiri, Karissa Renberg	E(11)
		Increased Antibiotic Resistance Found in a Sterilized Microbiology Laboratory In Comparison to a Horticulture Laboratory	Melody Marzjarani, Tiffany Nguyen, Magie Williams, Morgan Davis	E(12)
		Populations of Antibiotic Resistant Bacteria on Restaurant Tables and Menus	Katie Deming, Kara Ernst, Natalie Whise, Demetri Thompson	E(13)
		Community Bathroom Style Sink Handles vs. Suite Bathroom Style Sink Handles	Courtney Simpson, Mannar Dalal, Stephen Ruenmenapp, Tasnim Choudhury	E(14)

Tuesday Poster Presentations

General Timeslot	Presenter with Poster	Title	Presenter(s)	Lounge
		The Comparison of Bacterial Antibiotic Resistance on Dog's and Children's Toys	Jeff Nader, Jill Solomon, Jillian Lubinger, Courtney Senkewitz	E(15)
		Antibiotic Resistant Bacteria Found on Meijer Shopping Carts	Jalpa Patel, Michael Elluru, Michael Kuhn, Eli Wasserman	E(16)
		Differentiation of Bacterial Abundance and Antibiotic Resistance Present within a Private Medical Practice	Sanjeet Subramanian, Brian Barnett, Kamren Huizenga, Shelby McWilliams	E(17)
		Antibiotic Resistant Bacteria on Apples and Star fruit	Benjamin Luttinen, Gabriel Ramirez, David Butts, Katelynn Barkell	E(18)
		Antibiotic resistance in community and suite style bathrooms	Madison Valentine, AJ Howaniec, Michaela Carter, Katherine Kasischke	E(19)
		Ampicillin, Kanamycin, and Tetracycline Resistant Bacteria on Fruit Surfaces	Alajiah Bashi, Anthony Rotondo, Vixey Silva, Klea Doko	E(20)
		A comparison of antibiotic resistance of bacteria found on toys within a day care center and a pediatrician's office	Curtis Eberline, Mason Rozgowski, Ben Sims, Chrissy Panagos	E(21)
		Antibiotic Resistant Bacteria on Fitness Equipment	Christopher Amundsen, John Knapp, Kendahl Yamarino, Abdol Karmach	E(22)
		Antibiotic Resistance of Surface Bacteria of Library Cubicles and Convenience Store Countertops	Kaleb Howard, Stephanie Hosko, Jillian Salloum, Madison Whyte	E(23)
		Antibiotic resistant bacteria in a Fraternity house versus a Sorority house	Ariel Amman, Michael Schauer	E(24)
		Bacterial Growth and Antibiotic Resistance on Meijer's Shopping Cart Handles	Kaysie Hook, Carissa Blackledge, Alexis Hennessy, Gina Pike	E(25)
		Antibiotic Resistant Bacteria In Fraternity vs. Sorority Bathrooms	Ludovic Clavette-Lachapelle, Jacob Wright	E(26)
		Antibiotic resistant bacteria in a Fraternity house versus a Sorority house	Ariel Amman, Michael Schauer	E(27)

Tuesday Poster Presentations

General Timeslot	Presenter with Poster	Title	Presenter(s)	Lounge
2:40-4:00pm	2:40-4:00pm		<i>LB 145</i>	East Only
		Comparison of bacterial density and extent of antibiotic resistance on walk-up and drive-through ATMs	Sabrina Fowler, Hannah Gloede, Christian Huber, Jordan Richardson	E(1)
		Antibiotic Resistance of Bacteria on Credit Card Key pads in a Supermarket versus University Cafe's	Anna Fedoronko, Alex Liska, Olga Caruso, Morgan Jernstadt	E(2)
		Bacterial Density and Antibiotic Resistance in Public and Private Auditoriums	Matthew Oxie, Jordan Stern, John Haadsma, Alexandra Spilson	E(3)
		Antibiotic Resistance and Density of Bacteria Found on Restaurant Menus	Victoria Badia, Grace Nagle, Michael Hinnawi, Lauren Blais	E(4)
		Bacteria on Public Desktop and Personal Laptop Keyboards	Shayda Soraya, Sabrina McKenzie, Briana Ferman, Drew Vigas	E(5)
		University Antibiotic Resistant Gym Bacteria Density and Antibiotic Resistance Comparison	Jessica Porter, Lillian Boufakhrreddinn, Habeeb Salimon, Alex Martin	E(6)
		A Study on the Density and Antibiotic Resistance of Bacteria found on Elevator Buttons within a University Hall	Josilyn Clark, Alexa Calas, Mitchell Collins, Waldemar Ortiz	E(7)
		Antibiotic Resistance and Population Densities of Bacterial Strains on Cellular Devices	Rachel McKenzie, Kacey Joseph, Sydney Whitmore	E(8)
		Comparison of Antibiotic-Resistant and Non-Resistant Bacteria in the Academic and Research Offices	Tyler Zhang, Matt Shields, Ben Wurst, Won Choi	E(9)
		Antibiotic Resistant Bacteria On Michigan State CATA Buses 1 and 31	Hannah Weatherford, Mitchell Katkic, Polo Kostecki, Claudia Fuderer	E(10)
		Bacterial density and antibiotic resistance on ATMs	Lindsay MacAulay, Damini Patel, Alysha Machuta, Ashley Archer	E(11)
		Bacterial Density and Antibiotic Resistance in the Grocery Store: Baskets vs. Carts	Andrea Luna Romero, Alexandra Croff, Madeline McIntosh, Anne Weitzel	E(12)
		Comparison of bacterial density and antibiotic resistance on light and heavy free weights	Madison Cribbs, Isabelle Correia, Amanda Hardwick, Nikki Ghazimorad	E(13)
		Difference in antibiotic resistant bacteria density and resistance between icons on two college campuses	Alissa Mossbarger, Kate Kretzschmer, Huei Sears	E(14)

Tuesday Poster Presentations

General Timeslot	Presenter with Poster	Title	Presenter(s)	Lounge
		Bacteria Type, Amount, and Antibiotic Resistance Dependent on Circulation of Currency	Hunter Montrose, Kelby Walby, Shias Raza	E(15)
		Bacterial Density and Antibiotic Resistance on Credit Card Pin-Pads in Produce vs. Non-Produce Environments	Megan Bolger, Anika Sasinski, Madeline Van Eck	E(16)
		Bowling for Bacteria	Ervin Batka, Elyse Goran, Halle Zielinski, Zac Guthrie	E(17)
		The Density of Bacteria and Frequency of Antibiotic Resistance in Sex-Segregated Bathrooms	Udoka Ndukwe, Gloria Yarandi, Debrieana Jackson	E(18)
		Comparing Bacteria Growth and Antibiotic Resistance on Two Different Handrails	Alexander Babbitt, Ian Woodburn, Ellen Wieneke, Hayley Zabik	E(19)
		Bacteria Density and Antibiotic Resistance In Carpets at Supercenters	Bich-Tam Nguyen, Elena Alemayehu, Collin Richtarcik, Sydney Manning	E(20)
		Presence of Antibiotic Resistance and Density of Prokaryotes on Restaurant Menus	Jillian Mutchler, Samantha Smyk, Mitchell Isaacs, Evan Tazzia	E(21)
		Comparing Bacteria Density & Resistance in the Restrooms of a College Town Bar and a Family Friendly Restaurant	Ellie Small, Madi Kraus, Erica Adams	E(22)
		Comparison of Bacteria in a Fraternity and Sorority; Community Denstiy and Antibiotic Resistance	Emily Spoeri, Raechel Ogne, Kevin Turnbull, Colin Brannagan	E(23)
		Investigation of Bacteria Density and Antibiotic Resistance in a Movie Theater	Dominic Milano, Katherine Johnston, Zach W	E(24)
		Investigation of Antibiotic Resistant Strains of Bacteria found in Two Gyms on Michigan State University Campus	Emily Kurjan, Kelli Broessel, Megan McCarthy, Cheyenna Calderon	E(25)
3:00-5:00pm	3:00-4:50pm	Sociological Research in a Hospital Setting	LB 492	East Only
		Breaking the Walls: Structural Changes and Their Impact Upon Patient Care	Mohammed Islam, Mitch Schmidt, Ryan Achrem, Arathi Arumanla, Abigail Harbourne	E(26)
		Patient Adherence and Satisfaction in the Orthopedic Department	Jacob Bolyard, David Lawlor, Kathryn Buckbee, Sara Barnett, Cody Parent, Mackenzie Stuenkel	E(27)
		Terminal Illness	Zachary Huber, Dalia Khader, Rachel Quinn, Tulsi Patel	E(28)
		Environmental Stressors in the Emergency Department and their Effects on its Success	Evelynne Smith, Billy Russner, Candice Holcomb, Lauren Babcock, Sam Leacher	E(29)

Tuesday Poster Presentations

General Timeslot	Presenter with Poster	Title	Presenter(s)	Lounge
		Effects of Educational Background on Hand Washing Behaviors in the Wound Clinic	Sydney Berger, Karissa Gorr, Dillon Jarbo, Victor Putz, Nidhi Sripada	E(30)
LB 172	3-4pm	The Discovery and Properties of Quasicrystals	Katelyn Schram	E(31)
3:00-5:00pm	4:00-5:00pm		LB 144	East Only
		Association of Temperature and Seed Nutrient Content on Birds' Seed Selection and Survival	Rachel Fung, Jose Gavina, Asia Frei, Yonathan Hodish	E(18)
		Avian Interspecies and Intraspecies Behavior Relating to a Foraging System	Henry Apwisch, Jenna Bandar, Bella Comsa, Brandon Goocher	E(19)
		Beak Shape of Birds in relation to Foraging Preferences in Terms of Seed Size	Donvee Burks, Andrew McLocklin, Jovonnie Stovey, Megan Colligan	E(20)
		Behavioral and Size Relationships of the Black Capped Chickadee and House Sparrow at the Feeder	Aria Kaur, Ryan McAnelly, Emmett McConnell, Sierra Young	E(21)
		Effects of Foraging Habits of Birds in Relation to Breeding Season	Katelyn Toloff, Renee Brewart, Aaron Slater	E(22)
Research		Engaging the Public in Rhagoletis Research: Establishment of a Citizens Science Program	Sydney Barosko	E(23)
Research		The Role of MLK3 in Breast Cancer Metastasis	Tasneem Sannah, Chotirat Rattanasinchai, Kathleen Gallo	E(24)
LB 172		Nuclear Energy: A Good or Bad Alternative?	Nicholas Garnett	E(25)

Tuesday Poster Presentations

General Timeslot	Presenter with Poster	Title	Presenter(s)	Lounge
8:00-9:00pm			LB 144	East Only
		Temperatures Effect on Crayfish Movement	Adam Artzberger, Jaclynn Kovach, Johnny Stathakios, Marilyn Zahrt	E(1)
		The effects of auditory stimuli on crayfish during feeding and and non-feeding time	Anna Peston, Marco Macias, Ricardo Aquino, Lisa Skylis	E(2)
		The effect a varying light source has on the growth of Ankistrodesmus sp. green algae	Helen Jeffers, Caelin Kopicko, James Liu, Paul Schultz	E(3)
		Phytoremediation Capabilities of Duckweed with Varying Mercuric Concentrations	Steffen Mammen, Liam Clink, Stewart Chrumka	E(4)
LB 492		Is a Carrot a Carrot? Exploring the impact of organic and conventional farming	Kasey Pryg, Cameron Allie	E(5)
LB 492		More for Less: Can we Eat Well on a Budget?	Jonathan Schiff	E(6)

Wednesday Oral Presentations

Room	Class order	Title	Presenter(s)
C7	11:30- 2:20p		LB 172L 008
	1	What is really in 5-hour Energy	Kalee Rumpfelt, Abby Bryson, Ellie Paulson
	2	Mechanisms: The Cure for Cancer	Michaela Kratofil, Cam Kozik, Rachel Jansen, Ian Zaback
	3	Vitamin v. Vitamin Water	Riya Malhotra, Sally Wicks, Alysaa Jorgenson, Karly Wilson
C7	3-5:50p		LB 172L 009, 019
	1	Ferrofluid use in radiology/medicine	Annelise, Julianna, Matt
	2	Vitamins and their Molecular Pathways/Makeup	Bruse, Anne, Catelyn
	3	Acid effects on Soil Relating to Environmental Problems	Phoebe, Kaitlyn, Genesha
	4	Which nutrients in soil are best for Nature	Shwetha, Ritika, Molly
	5	Vitamin Overdose Analysis	Ann Durbin, Riley Woerner, & Andrew Roney
	6	Analysis of Heavy Metals in Water Supply	Lauren Eby, Leah Manimallethu, Elizabeth Barton
	7	Effects of Manure on soil	Emily B, Sydney Y, and Amber C
	8	Vitamin inadequacy	Katelyn Toloff, Slade Martin, AT Losurdo
	9	Vitamin use in body	Bella Comsa, Jaki Caverly, Lauren Wilcox
	10	Applications of Nanoparticles	Dylan Mankel, Manpreet Kochar, Aditya Shah

C7	7-9:50p	LB 172L 010, 020
	1	Acidification of Oceans due to Carbon Dioxide Akhil Damidi, Claudia Petrucco, Megan Mulheron
	2	Applications/use of Ferrofluids Akshay Damidi, Taryn Stefanski, Marilyn Zahrt
	3	Green Slime Ryan Hackenberger, Collin Oosse, Callie Moffett, Kris Rygiel
	4	borax snow flakes Gabriel Franks, Mayank Jayaran, Raya Patel, jaclynn Kovach
	5	Soil types and cation exchange rates Emily Gildersleeve, Selena Simmerson, Robert Mothersell, Hannah Zawisa
	6	Ferrofluids medical application Brendan Nowakowski, Jennifer Semaan, Eagan Ingrody, Nick Zonca
	7	Calcium content in Holmes water Emily Kurjan, Maylyn Wu, Adam Freer,
	8	Eutrophication on bodies of water Jacob williams, Grant Allen, Sophia Potter
	9	Alternative fuel: Biodiesel Elizabeth Remer, Torel Beard, Michela Methner, Zane Alroshood
	10	Do painkillers have a nutritinal value? Adam Artzberger, Alexis Tangalos, Bailey Borycki
	11	Kaylan Hayman, Calley Casey, Kilboski

Wednesday Poster Presentations

General Timeslot	Presenter with Poster	Title	Presenter(s)	Central Basement
3:00-5:00pm	4:00-5:00pm			<i>LB 144</i>
		The Impacts of Different Concentrations of Lead on the Reproductive Abilities of <i>Physa</i> spp.	Isabella Frownfelter, Rachel Breuer, Tyler Ekizian, Jawad Farhat	C(1)
		Cherry Shrimp Reproduction in Response Monsoon Sounds	Ashley Greenlick, Maylyn Wu, Grace Basa, Paul Blakey	C(2)
		Simulating Territorial Aggression of Crayfish <i>Oronectes rasticus</i> in a Reflective Environment	Kaitlyn Krus, Steven Licari, Deepika Bandarupalli, India Cross	C(3)
		Cherry Shrimps Reaction Time To Food in the Presence and Absence of Conspecific Competition	Briaunna Murray, Dorrian Brooks, Drew Levine, Benjamin Shingles	C(4)
		The Effect of Sucralose on <i>Procambarus alleni</i> Behavior	Ariana Angarita, Ariana Angarita, Ryan Bean, R'reiana Guydon, Shanna Mais	C(5)

Thursday Oral Presentations

Room	Class order	Title	Presenter(s)
C7	8:00-10:50a		LB 172L 011, 021
	1	Ferrofluids and Its Applications in Science	Sarah Jenuwine, Amanda Griffin, Alison Lyijynen
	2	Cation Exchange	Andrew Berry, Sierra Tolbert, Erik Eikey
	3	Medical applications of Ferrofluids	Andy Jurasek, Alex Sovel, Keenan O'Dea
	4	Properties and Applications of Biodiesel	Nicolas Dronchi, Mikki Smith
	5	Real world applications and exampels of galvanic cells	Alexis Ly, Collin Hudson, Fallon Williams
	6	Vitamin deficiency in the human body	John Monterosso, Andrew Abiragi, David Kasperski
W-40	10:20-12:20		LB 492
10:20		Social Media and Its Effects on Self-Esteem	Sienna Kotch
10:35		The Prevalence of Mental Illness in College Stu	Kasey Mackley
10:50		Politicization of Climate Change	Blake Reynolds
11:05		TBA	Nicholas Roof
11:20		The Effects of Obesity on Our Economy	Adrienne Spring
11:35		The Effects of Politics on Climate Change	Lucas Wailing
11:50		Mental Illness Problems in the Prison System	Joshua Wilber
12:05			

Thursday Oral Presentations

Room	Class order	Title	Presenter(s)
C7	11:30-2:20p		LB 172L 012, 022
	1	Ferrofluids in Medicine	Erik Witt, Riley Jarski, Carli Piecuch
	2	Acid rain effect on soil	Grace Ignatious, Alexis Wood, Monty Frankfort, Danielle Sherman
	3	Kinetics in the environment and medicine.	Chitra L, Joey P, Kevin M
	4	Using Ferrofluids in the Real World	Alex B, Kaley B, Omar S, Jessica S
	5	Biodiesel As an Alternate Fuel	Davin Hami, Maggie McDonald, Ana Montaner
	6	Electrochemistry of Copper	Abigail Stringer and Paige Girdley
	7	Bioavailability of Powder vs. Aqueous Copper	Tasneem Sannah and Katie Edwards
	8	Le Chatelier and Thermodynamics	Judy Chen and Gabby Curtis
	9	undecided	AJ Taormina & Katie Schram
C7	3-5:50p		LB 172L 013, 023
	1	Alternative Applications of Ferrofluids	Brianna Rice, Haley Fulco, Jaeina Limbo, Michael Marchiori
	2	Smog? What is it? And How does it affect the people and the environment?	Gautam Pandrangi, Clay Threatt, Yonothan Hodish
	3	Even Sparty doesn't like Greenhouse Gases	Anjali Joshi, Madeline Bresson, Lindsey Hood, Sabrina Cleis
	4	Uses for Cation Exchange Resins	Audrey Drotos, Nick Carbonell, Charlie Tobin
	5	Go Green Crystalization	Brandon G, Olivia B, Xue Lin W
	6	Effects of Energy Consumption	Bob Urban, Emily Lynch, Zina Patel
	7	Ferrofluid Application	Johnny Stathakios, Megan Colligan, and Zach Raad
	8	Applications of Partition Coefficient	Chase Anderson, Phong Los, Aleena Mirza, Christian Dondonan
	9	Biological Effects of Vitamins	Jesse Szarowicz, Imani Jefferson, Diba Ossareh
	10	Gas Law application	Melanie Bumler, Waseem Syed, Patrick Mucci
	11	Applications on soil and the environment	Hunter MacDonald, Monica Wimbush, Adrienne Thomas

Thursday Oral Presentations

Room	Class order	Title	Presenter(s)
C7	7-9:50p		LB 172L 014, 024
	1	Redox Reactions in Everyday Life	Ben Horne, Vanessa Tan, Briana Henderson
	2	Resin in Water Treatment	Shangari Varatharajan, Erin Pete, Dane Brennan
	3	Redox Reactions of Metal Plating	Dan Jian, Tamara Porter, Suhana Posani, Annabth Yang
	4	Ferrofluids in Medicine	Bramyn Payne, Alex Kravaritis, Janith Jayatilake
	5		Tim Nguyen, James Jabara, and Katelynn Barkell
	6	Acid affects on plants	Jessica Bourbeau, Nick Wanczyk, Oonagh Mckenna
	7	Biochemisty of over the counter vitimin intake	Olivia, abby, jordan
	8	Cobalt Recrystalization	Tatum Kenrick, Carly Suriano, Jared Burge, Justin Ralph, Lauren McGrath
	9	Creating biodeisal from animal fats	Gino Caruso, Austin Frisch, Evan Tangalos
	10	Partition coefficient of different pharmaceuticals	Allison Vik, Drew Levine, Ryan Zittel

Thursday Poster Presentations

General Timeslot	Presenter with Poster	Title	Presenter(s)	Location
3:00-5:00pm	4:00-5:00pm			LB 144
		The effect of invasive Ramshorn snails on the reproductive success of Ghost shrimp due to food availability	Gina Semaan, Jala Jackson, Mackenzie Montague, BriAnna Huckaby	C(1)
		The effects of changing the plant coverage in the tanks of Neocaridina davidi on their feeding behavior	Olivia Ghannam, Lane Proctor, Catalina Pozo, Austin Zoppi	C(2)
		Effects of Different Atrazine Concentrations on the Height of V. americana and E. condensens	Emily Nieckula, Karee Lesko, Katie Ramp, Suk Ro	C(3)
		Examining the effects of Algae and Daphnia on the reproductive success of pond snails (Physa spp.)	Jared Babcock, Katie Anderson, Rachel Jansen, Tiana Austin-Gardner	C(4)
		The effect of ingesting microbeads on the reproductive success of Red Cherry Shrimp "Neocaridina davidi"	Hannah Lufkin, Lexi Straub, Benjamin Sheaves, Kayla Pool	C(5)
5:00-7:00pm			BS 191H	East Loung
		Poster titels TBD		
8:00-9:00pm			LB 144	
		The Foraging Effects of Birds with Varying Wind Speed	Dhruva Govil	C(1)
		Behavioral Changes of White-Breasted Nuthatches (Sitta carolinensis) in Relation to Mating Season	John Rahi, Nichelle Wooden, kayla Glenn, Shannon Depender	C(2)
		Effect of Human Disturbances on Species Richness	Molly Griffin, Lauren Jarzembowski, Jessica McFarland, Marcus Frost	C(3)
		Observation of Birds Foraging in Relation to Temperature	Sage Wood, Sannah More, Imani Harris, Samuel Taylor	C(4)
		Effects of Sugar-Enhanced Feed on the Foraging Habits of Birds	Sarah Thomas, Caroline Kane, Jacob Sock, Austin Chase	C(5)