

**12th annual**

***Lyman Briggs  
Research Symposium  
Supported by MSUFCU  
April 23-26, 2018***



**Complete Schedule**



**LYMAN BRIGGS  
COLLEGE**

**MICHIGAN STATE  
UNIVERSITY**

## Classes Participating

Room	Specific Time	Class	Title
<b>Monday Oral Presentations</b>			
C7	3:00-5:50pm	LB 172L 001, 007	Chemistry 2 Lab
C7	7:00-9:50pm	LB 172L 002, 15	Chemistry 2 Lab
C106	12:40-2:30pm	LB 348	Biology Research

## Both Lounges Monday Poster Presentations

9:10-10:00am	LB 172	Chemistry and Our Environment
10:10-11:00am	LB 172	Chemistry and Our Environment
11:30-12:20pm	LB 171	Double Edged Chemicals
12:40-1:30pm	LB 172	Chemistry and Our Environment
1:50-2:40pm	LBC SUTL Fellows	Faculty Led Educational STEM Research
3:00-3:50pm	LB 172	Chemistry and Our Environment
4:10-5:00	LB 145/LB172/LB274	Sunlight to Muscle Movement
4:10-6:00pm	LB 145 003	Molecular Biology Research

**6-8pm**

## MSUFCU General Poster Session

## Tuesday Oral Presentations

C7	8:00-10:50am	LB 172L 003, 016	Chemistry 2 Lab
C7	11:30a-2:20pm	LB 172L 004	Chemistry 2 Lab
C7	3:00-5:50pm	LB 172L 005, 017	Chemistry 2 Lab
C7	7:00-9:50pm	LB 172L 006, 018	Chemistry 2 Lab

## Lounge Tuesday Poster Presentations

West	10:20-11:40am	LB 144 001, 002	Organismal Biology Research
West	12:40-2:00pm	LB 144 003, 004	Organismal Biology Research
East	12:40-2:00pm	LB 145 002, 004	Molecular Biology Research
East	2:40-4:00pm	LB 145 006, 012	Molecular Biology Research
West	2:40-4:00pm	LB 145 007, 008	Molecular Biology Research
West	2:40-4:00pm	LB 145 010, 011	Molecular Biology Research
	3:00-5:50pm	LB 492	Sociological Research in a Hospital Setting
	4:10-6:00pm	LB 145 001	Molecular Biology Research

## Classes Participating

Room	Specific Time	Class	Title
<b>Wednesday Oral Presentations</b>			
C7	11:30a-2:20pm	LB 172L 008	Chemistry 2 Lab
C7	3:00-5:50pm	LB 172L 009, 019	Chemistry 2 Lab
C7	7:00-9:50pm	LB 172L 010, 020	Chemistry 2 Lab
<b>Thursday Oral Presentations</b>			
C7	8:00-10:50am	LB 172L 011, 021	Chemistry 2 Lab
C103	10:20-12:10	LB 325B	
C7	11:30a-2:20pm	LB 172L 012, 022	Chemistry 2 Lab
W40	3:00-4:50pm	LB 492	Senior Seminar
C7	3:00-5:50pm	LB 172L 013, 023	Chemistry 2 Lab
C7	7:00-9:50pm	LB 172L 014, 024	Chemistry 2 Lab
<b>Thursday Poster Presentations</b>			
Central Hall Basement	7:00-9:00	BS 191H	Molecular Biology Honors Resesarch

# Monday Oral Presentations

Room	Specific Time	Title	Presenter(s) (Class)
<b>C106</b>	<b>12:40-2:30pm</b>		<b>LB 348 - Biology Research</b>
	12:45 PM	Skin Pigmentation	Gino Caruso
	1:00 PM	Alcohol Dependence	Joe Dziedziula
	1:15 PM	Coffee Consumption	Lookie Pipattanamaitree
	1:30 PM	Genetics and Muscle Composition	Chrissy Paganos
	1:45 PM	Sleep Movement	Zach Raad
	2:00 PM	Saturated Fat and Weight	Holly VanGordon
<b>C7</b>	<b>3:00-4:15</b>		<b>LB 172L 001</b>
	1	Carbon Dioxide Emissions	Ben Salva, Monica Fan, Juan Chavez, Hadley Griffin
		How Increased CO2 Levels Affect the Great Lakes	
	2	Ecosystem	Rachael Buhler, Ritika Jain, Maggie Ritchie, Samantha Vader
	3	You've Gotta Be Kid(ney)ing Me	Maria DeCator, Josie Randels, Naomi Boonzaaijer
	4	Further Exploration of The CO2 Lab	Mallory DeMott, Sean Cannon, Jae Kim, Asad Muhammed
	5	A Closer Look at Our Most Important Resource	Odette Peters, Ryan Sanderson, Jacob Schoener, Prachee Pingle
<b>C6</b>	<b>4:15-5:30</b>		<b>LB 172L 007</b>
	1	Carbon Dioxide: Trapping the Environment	Morgan Lynch, Yesha Patel, Taylor Van Deer
	2	CO2 and the greenhouse effect	Katie Murphy, Trevor Varner, Matthew Williams
	3	The Effects of Oil Dispersants on Oil Spills	Noah Adams, McKenna Bowen, Siwei Cao, Michaela Kizy
	4	Production of Acid Rain	Claire Duncan, James Burtka, Kate Gislason
	5	Applications of Chemiluminescence in Forensic Science	Abi Orwell, Cody Neeb, Reena Jankowski, Su min Joa
<b>C7</b>	<b>7:00-8:15p</b>		<b>LB 172L 002</b>
	1	Water Quality and its Significance in the Lakes and Streams of Michigan	Olivia Nave, Brett Vinton, Aria Trager, Benjamin Mitchell
	2	Water Quality Lab Connections	Anna Lin, Adam Lynch, RJ Mario, Maddie Rescorla,
	3	The Greenhouse Gas: Carbon Dioxide	Emily Provencher, Devani Johnson, Neeraj Padmanabhan, Jay Parmar
	4	Reaction Mechanism Lab	Cameron Bennett, Audry Gerber, Bri Gibler, Jessica Kim
	5	Ocean Acidification: Decrease the pH, Increase the Risk?	Nicole Rumman, Kermanjot Sidhu, Sara Moussa, Ann Weitzel

## Monday Oral Presentations

Room	Specific Time	Title	Presenter(s) (Class)
<b>C6</b>	<b>8:15-9:30</b>		<b>LB 172L 015</b>
	1	Get The Most of Your Meds	Lauren Nguyen, Jonny Fata, Foster Buchanan, Nathan Glaza
	2	Detrimental reactions that could occur in the human body system in response to the compounds present in Flint water, and how one could reverse these reactions	Isabelle Rolina, Sam Walters, Ayla Gagne, Pablo Kulyckyj
	3	Kidney Stones	Chris Mitchell, Dakota Shank, Bella Schena, Calabria Kalaj

# Monday Poster Presentations in East/West Lounges

Displayed Timeslot, Presenter at Poster 9:10-10:00am	Title	Presenter(s) (Class) <i>LB 172 Presentations</i>	East/ West
	Environmental Impact of Permafrost Thawing	Piper Brase, Shannon Doane, Jeannine Tran, Nicole Lipcaman, Sarah Bassett	E(1)
	PFOS: A Silent Killer	Abhijeet Suryadevara, Harrison Plummer, Greg Battley , Joshua Paul	E(3)
	Environmental effects of smog	Hannah Dygert, Kaely Bolio, Nitya Deshpande, Meghan Zula, Nataleigh Muscott	E(5)
	The Issues of Ocean Acidification	Dana Reeves, Johanna Feiner, Josie Randels, Leah Braucher, Angelica Cabatu	E(7)
	Effects of Water Pollution on the Ecosystem	Jalen Green, Violet Butts, Kevin Kempf, Klayton Reding, Miglena Mihaylova	E(9)
	The Chemistry of Oil Spills and the Effect on the Environment	McKenna Bowen, Hadley Griffin, Ryan Shafer, Anna Trzcinski, Kayla Schisler	E(11)
	Acid Rain Effects	Robert Marino	E(13)
	Effects of Glacier Melting on the Water Cycle	Shreya Ohri , Valerie Khaykin, Adam , Chrismaria William, Lexi Vu	E(15)
	The Impact and Science of Ocean Acidification	Kiersten Walsworth , Jae Kim, Quinn Johnson, Maria Dessinger, Will Shuster	E(17)
	Examining the Depletion of the Ozone Layer	Abby Cortis, Maggie Ritchie, Kester Stefani, Bryce Houser, Brian Walrad	E(19)
	Coral Bleaching	Franz Marasigan, Kimmy Watson, Ethan Van Gorder, Juan Chavez, Gabe Seilo	E(21)
	The Chemistry behind the Deepwater Horizon Oil Spill	Rachael Buhler, Thanh Lai, Mackenzie Wilson	E(23)
	The Effect of Melting Polar Icecaps On The Global Climate	Simon Sundberg, Julia Kelm, Rachael Powers, Hamza Kaakarli	W(1)
	Ozone Layer Depletion	Serene Abu-Hamdan, Deni Peterson , Sharbel Daher, Ryan Pittel, Shakhlo Aminova	W(3)
	Environmental Change from Agricultural Runoff	Emily Diederich, Taylor Vandeer, Madison Tuscany, Zarshed Suponkulov, Nicklas Kuphal	W(5)
	Coal as a Fuel	Emily Hawker, Manwinder Kaur, Sahiba Singh, Hope Meyers, Lili Bacon	W(7)
	mining on the enviroment	trevor waldvogel, Joshua Elkawand, Ben, walte329@msu.edu	W(9)
	Hexavalent Chromium and The Environment	Michael Moran, Yesha Patel, Julia Witek, Jessie Carlson	W(11)

# Monday Poster Presentations in East/West Lounges

Displayed Timeslot, Presenter at Poster	Title	Presenter(s) (Class)	East/ West
	Hydrogen as an Alternative Fuel Source	Noah Adams, Noah Aurand, Matthew Williams	W(13)
	The Effect of Car Pollution on Global Climate Change	Olivia Nave, Meg Jones, Claire Duncan, Zoey Willson	W(15)
	The Story of How Plastics Travel in our Oceans	Briana Gibler, Nicole Cubba, Isabel Petrescu, Katie Murphy, Phelan Wolf	W(17)
	Fracking	Matt Ross, Nick Petrykowski, Parang Khanal, Nathan Glaza, Cam Carpenter	W(19)
	Solar Energy and Its Impact on the Environment	Alli Hurt, Morgan Schafer, Kate Hoegeman, Natalie JaBaay	W(21)
	One fish, two fish, sad fish, glad fish? The implications of pharmaceutical pollution on aquatic environments	Anna Bowling, Haaniya Mallick, Shefali Merchant, Wil Schikorra, Will Griffith	W(23)
Independent Research	The Effects of Choice on Desire for Power	Sabrina Bronni, Victoria Denison, Katie Solomon, Maren O'Connor, Tyler Mattenson, Raven Dominguez	W(24)
<b>10:20-11:10am</b>		<i>LB 172 Presentations</i>	
	Ethanol as an Alternative Fuel Source	Maria DeCator, Jordan Robinson, Sheeren Daniel	W(1)
	Pesticides: Helpful or Health Hazard?	Amanda Northrup, Morgan Lynch, Chloe Smith	W(2)
	Forest Fires to Floods: The Consequences of Climate Change	Emily Walen, Alex Heffner, Michaela Kizy, Elie Huez	W(3)
	Effects of Deforestation on Atmospheric CO2 Levels	Eric Schock, Kaden Dennis, Noah Croasdill	W(4)
	Oil Spills	Teja Mogasala, Grace Cardellio, Isabella Davidson, Sydney Loughridge	W(6)
	Dangers of Rising Sea Levels	Jack Dodson, Kameron Porter, Luke Noah, Ben Salva, Nagib Ashabi	W(8)
	Ocean Acidification	Mallory DeMott, Alexis DeVries, Grace Cleland, Audry Gerber, Brooke Harper	W(10)
	The Killer of our Ecosystems: Acid Rain	David Wojciechowski, Jacob Schoener, Jason Blondeau, Frank Ruffino	W(12)
	Lead in Flint Pipes	Nicole Hefty, Mary Kay Burzych, Eva Mulherkar	W(14)
	Lake Erie Dead Zones	Sean Lennox, Madelyn Chapman, Nick Bourbeau, Nick Crane	W(16)
	Polar Ice Caps Melting	Karan Singh, John Seger, Adam Lynch	W(18)
	The Effects of Climate Change on the Bat Population	Christine Lee, Jackie Brandonisio, Benjamin Byrd, Matt Spampinato	W(20)

# Monday Poster Presentations in East/West Lounges

Displayed Timeslot, Presenter at Poster		Title	Presenter(s) (Class)	East/ West
Honors Option	LB 172	Marie Curie Biography and Contributions to Chemistry	Emily Babcock	W(21)
Honors Option	LB 172	Environmental Impacts of Nuclear Energy Use	Kyleigh Phillips	W(22)
Honors Option	HPS 322A	Development and Planning of a Makerspace in Holmes W9	Matt Barlow, Beth Feldman, Marie Camp	W(23)
Honors Option	LB 172	Ocean Acidification	Aashka Chhabria	W(24)
<b>11:30-12:20</b>			<i>LB 171 Presentations</i>	
		THC	Ryann Whalen, Vivian Ly, Hadley Lange	W(8)
		BVO	Armani Poindexter, Lauren Haeger-Montino, Genevieve Nantais	W(9)
		Pros and Cons of BPA	Emily Zaleski, Rachel Simoes, Jessica Ranshaw	W(10)
		Atrazine	Ria Nikollau, Lissa Pereira, Angela Tong, Dayne Plummer, Noah Lubben	W(11)
		Adrafinil	D'Aire Jackson, Avian Elliott, Anthony Harding, Lauren Kaltz	W(12)
		Aspartame	Jenna Himelhoch, TaiLi Samson, Karley Wertzbar, Rosie Runstadler, Veronica McCall	W(13)
		DMT "The Spirit Molecule"	Alease Rude, Calle Shannon, Zachary Shepard, Nija Maye, Nadia Sinishtaj	W(14)
		Lorazepam	Summer Richardson, Sophie Snow, Megan Supernaw, Marie-Soleil Sawka, Danielle Allison	W(15)
		DDT	Matthew Jacobs, Megan Monforton, Taya Smith, Carly Goldring, Ona Dalman	W(16)
		Doubled Edged Chemical Presentation	Erica Schaeffer, Megan Weingartz, Hannah Shorey, Shannon Stevens, Emily Fox	W(17)
		Morphine	David Hart, Brennan Baudeloque, Zaakir Hamzavi	W(18)
		Controversial Chemical (Morphine)	Brandon Bigelow, Caleb Furlow, Darren Hiemstra, Kandice, Dashoney	W(19)
		Capsaicin	Shayshay Robinson, DaJia Thomas, Nikita Welch	W(20)
		Caffeine: the Double Edge Chemical	Izabella Silva, Erica Arciniega, Robert Hurst	W(21)
		A look into Capsaicin: A double-edged chemical	Catalina Pozo, Daniel Johnson, Darnisha Law, V'Necia DuPree, Caryn Shannon, Kiara Bobo-Byrd	W(22)
		Project 1	Dustin, Travis	W(23)
		Asbestos: Good Intentions Turned Deadly	Addison Pletcher, Maggie Leff, Morgan Sanford, Kori Spader, Lauren Eldred	W(24)
		Caffeine	Travis Murray, Dustin Shaw	W(7)



# Monday Poster Presentations in East/West Lounges

Displayed Timeslot, Presenter at Poster	Title	Presenter(s) (Class)	East/ West
12:40-1:30		<i>LB 172 Presentations</i>	
	Decline in the Bee Population	Julia Sedatole, Cassandra Eddy, Chloe Jones, Amanda Motts, Kayla Hogan	E(1)
	Ecological risk assessment for DvSnf7 RNA and Genetic Modification of Corn	Kerman Sidhu, Dyllan Skinner, Travis Chase	E(2)
	Impact of CFCs on Ozone Depletion	Tyler Robertson, Asad Muhammed, Nikhil Patel, Heem Vaniawala	E(3)
	Sea turtles and temperature change	Audrey downs, Rachel Shereda, Isabelle Rolina, Rosalyn Schaefer	E(5)
	Airplane Emissions and Their Impact on the Environment	Sean Burke, Cameron Raedy, Dominic Iucchi, Palmer Kokesh	E(7)
	The Chemistry of the Flint Water Crisis	Evan Zobel, Anjali Makam, McKenna Balian, Michael Cadigan	E(9)
	Effects of Acid Rain	Madison VandenBerg, Braden Kilpatrick, Ashley Tindle, Sydney Tieman	E(11)
	Acidification of the Great Lakes	Kate Gislason, Monica Fan, Caleb Wendt, Jewel Owens	E(13)
	Coral Bleaching in the Great Barrier Reef	Gabrielle Brakoniecki, Maddie Rescorla, Emma Rosenthal, Shelby Hogan, Terrance Duncan	E(15)
		Su Min Joa, Camyrn Cather, James Burtka, Makenna Hill, Kyra Powers	E(17)
	The Effects of Climate Change on Water Levels	Siwei Cao, Sam Steurer, Gabi Meitler, Bella Schena, Torey Fischer	E(19)
	Gulf of Mexico Deadzone	Sarah Clay, Kaitlin Gratti, Anya Inman, Ally Bauer, Julia Chebbani	E(21)
	Acidification of the Great Barrier Reef	Jenna Snider, Dawson King, Moe Mallah, Taylor MacKenzie, Callahan Kornak-Kotarba	E(23)
	Ocean Acidification	Molly Crusse, Pooja Gadhiya, Nicole Rumman, Piper Hurlburt, Ayla Gagne	E(24)
	Global warming effects on sea turtle populations	Ritika Sanikommu, Prachee Pingle, Jake Petish, Lauren Shephard, Kristian Brucaj	W(1)
	Nuclear Energy: Is the Payoff Worth the Fallout?	Sean Cannon, Hailey Homoly, Sam Vader, Zion Bediker, Molly Sochor	W(2)
	Photovoltaic Cells and the Environment	Michael Wischer, Grant McBride, Justin Czarnecki, Jacob Mears, Brett Vinton	W(3)

# Monday Poster Presentations in East/West Lounges

Displayed Timeslot, Presenter at Poster	Title	Presenter(s) (Class)	East/ West
	Environmental Effects of Acid Rain on the Great Lakes	Heidi Slawson, Helenia Monolidis, Odette Peters, Regan Levy	W(5)
	Climate Change Effects on Great Lakes Algae Blooms	Natalie Bobowski, Abbie Skidmore, Lena Edson, Emily Babcook, Monalisa Tinaj	W(7)
	The Effects of the Meat Industry on the Environment	Abigail Seeger, Kyleigh Phillips, Therese Costantini, Aria Trager, Grace Doyle	W(9)
	The Exauhsting Impact of Catalytic Converters	Oren Lerner, Charlie Mahoney, Stephen Fong, Dev Dayal, Kyle Schiel	W(11)
	Sickly Smog	Sarah Sitto, Ireland Papa, Peyton Fowler, Reena Jankowski, Joseph Hrabnicky	W(13)
	The Chemistry of Changing Weather Patterns	Jeremy Cuff, Jackson Catchot, Malachi Flood, Chris Kim	W(15)
	Global Warming and it's effect on the Ice Caps	Elijah Keller, Sam Walters, Brendan Wiley	W(17)
	The UnbeLEAFable Truth About Deforestation	Lauren Rosquin , Keegan Byrnes, Ali Abdel Magid, Julia Evanski	W(19)
	Impact of the reduction of dissolved oxygen in the great lakes and its effect on the surrounding environment	Zaria Contejean, Cody Neeb, Calabria Kalaj, Naomi Boonzaaijer, Ryan Sanderson	W(21)
	How Acid Rain Affects Soil	Trevor Varner, Reema Mody, Roshan Patel, Sarah Kerr	W(23)
<b>1:50-2:40pm</b>		<i>LBC SUTL Fellow</i>	
	Investigating Students' Resources on Diffusion with Experimental and Computational Activities	Daniel Weller, Kathleen Hinko, Vashti Sawtelle	W(1)
	Figure of the Day: Student Learning Gains from a Graph Activity	Caitlin K. Kirby, Dr. Peter White	W(2)
	Thesis-Driven Writing & Commonplace Books	Arthur Ward, Ryan Huey	W(3)
	Friend of Foe: Changing how Students Interact with Textbooks	Corey Higley, Kevin Elliott, Jubin Cheruvellil	W(4)
	Assessing Newly-Developed Quantitative Literacy Courses at Michigan State University	Becky Matz, Younggon Bae, Luke Tunstall, Kate Appenzeller	W(5)
	Standardizing sampling effort with rarefaction curves to estimate biodiversity of fish in Michigan lakes	Maggie Brown, Sophie Morin	W(6)

# Monday Poster Presentations in East/West Lounges

Displayed Timeslot, Presenter at Poster	Title	Presenter(s) (Class)	East/ West
3:00-3:50		<i>LB 172 Presentations</i>	
	Global Climate Change Impact on Coral Reefs	Mitchell Borin, Lauren Nguyen, Ellie Cataldo, Dylan Wolschleger, Legend Kenney	E(1)
	Gulf coast oil spill	Varun Mangal , Casey borowsky, Matt Kilroy, Chris Mitchell , Ryan Tomaszewski	E(2)
	Ashes Ashes The Trees Fall Down	Andra Kotsonis , Katerina Kitsios, Shagane Kotcharian, Sarah Goodwin	E(3)
	deforestation	ciara sramek, cassie degroat, Alena Herwig, Anna Lin	E(5)
	Understanding Common Insecticides and their Impact on the Environment	Gabby Lee, Hannah Lalonde, Brennan Hoadley, Mahmod Mohammed	E(7)
	Aerosol Cans and their Effect on the Environment	Gagana Borra, Brenda Cheung, Olivia Langenfeld, Claire Banyas, Inna Espinoza	E(9)
	Fireworks: Boom or Bust?	Cameron Fuentes, Lauren Jernstadt, Olivia Messing, Ben Mitchell	E(11)
	The Effects of the BP Oil Spill	Dia Melhotra, Emily Bishop, Taha Muhammad-Ali	E(13)
	Fertilizer Runoff's Effect on the Ecosystem	Emily Provencher, Kaitlin Ziadeh , Jacob Kluemper, Grace Kuza , Kate Rogowski	E(15)
	The Effects of CFCs on Ozone	Karina Cieslak, Dana Josifoski, Brandon Page, Kunjal Patel, Lindsey Stafford	E(17)
	Air Pollution in New Delhi	Caitlin Ryan, Matthew Cederman, Buchi Amanze, Brendan Rawlings, Sylvia Jennette	E(19)
	Doomsday Prepped: Arkema Factory Fire and its Environmental Impacts	Brooke Bassett, Cameron Bennett, Michael Gruntfest, Joey Pastori, Akhil Sekar	E(21)
	Trees Are Friends Not Fuel: Deforestation	Emily Simonis, Sydney Burtovoy, Skylar Richardson , Blerta Prenaj	E(23)
	Coral Bleaching: Why Everyone Should be Involved	Amy Dedoyard, Andrew Brooks, Yuya Nishida, Caleb Rispler, Dhaval Gandhi	E(24)
	Algae Fuel: The Future of Energy	Katelyn Johnson, Mitch Gajar, Grace Joachim, Emma Burke	W(1)
	The Effects of Rising Sea Levels on the Environment	Daria Wedeven, Natalie Samaan, Tina Vuljaj, Ayla Schwartz	W(2)
	Ozone Layer Depletion	Christina Clinton, Susan Hoffman, Anna White, Nick Piner, Abby Struble	W(3)
	Dead Zone in Lake Erie	Kylee Hasbany, Devani Johnson, Pedro Barbosa Machado, Neha Vallabhaneni	W(5)

## Monday Poster Presentations in East/West Lounges

Displayed Timeslot, Presenter at Poster	Title	Presenter(s) (Class)	East/ West
	Ocean Acidification and Coral Bleaching	Neel Patel, Akash Divecha, Quinn Babcock, Raywa Masti, Anne Weitzel	W(7)
	What are you doing in my swamp? Invasive Water Plants	Jaimee Beckett, Adrianna Hoffman, Destiny Ong, Molly Robles	W(9)
	Methane Production and Global Warming as a Result of Cow Farming	Sara Moussa, Jessica Kim, Katie Muczynski, Pooja Dave	W(11)
	The Fukushima Nuclear Disaster and the Environment	Natalie Masopust, Kaelyn Fife, Brooke Pelshaw, Ethan Stav	W(13)
	The Influence of Carbon Dioxide on The Great Barrier Reef	Mikaela VandenBerg, Aadi Nalla, John Le, Allison Hartwick, Marino Moccia	W(15)
	One Fish Two Fish Red Fish No Fish	Sean Williams , Ashley Korendyke, Ross Deckmann	W(17)
	The Flint Water Crisis	Foster, Matthew, Matthew, Pablo, Kellen, Faruq	W(19)
	Eutrophication	Aashka Chhabria, Roman Grossi , Alana Barton, Zach Jennings	W(21)
	Trees Are Friends Not Fuel: Deforestation	Skylar Richardson, Emily Simonis, Sydney Burtovoy, Blerta Prenaj	W(23)
	Flint Water Crisis	Foster Buchanan, Matthew Caruso, Matthew Leonard , Pablo Kulycky, Faruq Agboola, Kellen Fields	W(24)

# Monday Poster Presentations in East/West Lounges

Displayed Timeslot, Presenter at Poster 4:10-5:55pm	Title	Presenter(s) (Class)	East/ West	
	Fishy Business in the Lansing Area? Diving in Using DNA Barcoding	Viktor Ilyasov, Amanda Montgomery, Olivia Ruppert, Sophia Saco	E(1)	
	DNA Barcoding Used to Uncoverer Mislabeled Fish in the East Lansing Community	Hanna Boardman, Tom Floyd, Bailey Montgomery, Qadir Muhammad	E(3)	
	Detection of mislabeled fish species in Lansing, MI restaurants and fish markets by DNA barcoding	Chris Canu, Shanna Hilborn, Shay Oswald, Sarah Wennerstrom	E(5)	
	Fish Mislabeled: A Sample Site Comparison of Markets and Restaurants from East Lansing, MI	Maddie Dodson-Garrett, Kristin Gunkelman, Anagha Kramadhathi, Bethany Umloff	E(7)	
	Major Consequences of Fish Mislabeled: Consumer Safety and Environmental Conservation	Chloe Bruchnak, Audrey Laport, Devin McLaughlin, Zach Smith	E(9)	
	Something Smells Fishy: DNA Barcoding to Identify Fish Mislabeled Among Mid-Michigan Markets and Restaurants	Emily Dedoyard, Joey Haddad, Claire Mutch, Paige Pline	E(11)	
<b>4:10-5:00pm</b>	<i>Sunlight to Muscle Movement</i>	<i>Joint Biology-Chemistry-Physics Honors Option</i>		
	It Takes 47 Thousand Octillion Photons to Drive Your Car to Work		E(17)	
			E(18)	
			E(19)	
			E(20)	
			E(21)	
	How many photons does it take for an Indiana Brown Bat to survive hibernation		E(22)	
	How many photons does it take to do a bicep curl	Gagana Borra, Katrina Langen, Matthew Cederman, Shelby Hogan, Prachee Pingle, William Quackenbush	E(23)	
<b>Independent Research</b>	4:10-5:00	Building a Self-Efficacy Codebook to Analyze Project-Based Physics Experiences	Abigail Green, Abhilash Nair, Vashti Sawtelle	E(24)

LB 145

# Monday Poster Presentations in East/West Lounges

Displayed Timeslot, Presenter at Poster Evening 6-8pm	Title	Presenter(s) (Class)  <b>MSUFCU Poster Session</b>	East/ West
	Dysfunctional Androgen Receptor Feminizes Mast Cell Phenotype	Maddy Trowbridge	E(2)
	IgG, IgM, and IgA Concentration in Milk in Bovine Leukemia Virus Positive vs. Negative Dairy Cattle	Ashley Greenlick, Monika Dziuba, Justin DeKuiper, and Paul M. Coussens	E(3)
	Weight Gain and Insulin Resistance in Mice Lacking Cannabinoid-2 Receptor	Emily Kurjan, Omayma Alshaarawy, L. Karl Olson	E(4)
	Is There a Chemical Basis for Neuronal Co-Transmission?	Katarzyna Purzycka	E(5)
	Isolation and Validation of Murine Placental Exosomes	Benjamin Collaer, Sean Nguyen, Dr. Margaret Petroff	E(6)
	Deciphering the role of MLK3: An in vivo model of metastatic breast cancer	Hayden Stoub, Kathleen Gallo	E(7)
	Investigation into post-translational regulation of Cyclophilin A function during mitosis	Hannah Lufkin	E(8)
	In Vitro Model for Study of Pro-Resolving Lipid Mediators in Macrophage Toxicity and Inflammation	Augie Evered, Liz Ross	E(9)
	Determining whether morphine-induced increases in VTA SGK1 S78 phosphorylation are cell type specific	Ali Stark, Marie Doyle, Michelle Mazei-Robison	E(10)
	Establishing a three-dimensional uterine organoid culture	Lauren Jernstadt	E(11)
	Isolation of Antibiotic Resistant Genes from Canadian Geese Feces: A Public Health Study on the Transfer of Pathogens to the Environment.	Austin Frisch , Gabby Curtis , Erica Preblich	E(12)
	Evaluating a New Method for Detection of Legionella pneumophila	Abigail Shotwell, Mathew Flood, Paige Larner, Joan Rose	E(13)
	Role of Circulating U2 microRNA for Colorectal Cancer Progression	Timothy Nguyen	E(14)

# Monday Poster Presentations in East/West Lounges

Displayed Timeslot, Presenter at Poster	Title	Presenter(s) (Class)	East/ West
	The Role of Hypertension-Related Brain Lesions in the Development of Alzheimer's Disease	Mari Dowling, Madeline Bross	E(15)
	Examining Aquaporin Gene Expression in Barley following Partial Root Excision	Jillian G. Howland, Shannon A. Burke, Wieland Fricke	E(16)
	Investigating the Use of Next Generation Sequencing of Mitochondrial Genomes for Species Diagnostics for <i>R. pomonella</i> and <i>R. zephyria</i>	Kelly Geith, Nick Zonca, Wanda Sankey, Krista Dunger	W(1)
	Plant-microbe interactions in the rhizosphere of common bean ( <i>Phaseolus vulgaris</i> )	Waseem Syed, Nejc Stopnisek, Ashley Shade	W(2)
	Aquaporin expression roots of barley ( <i>Hordeum vulgare</i> L.) grown with limited potassium supply	Jane Sirigiri, Ronan Bonfield, Wieland Fricke	W(3)
	Early Life Adversity Affects Enteric Cholinergic Development in Pigs	Katelyn Kerr, Calivn Pohl, Adam Moeser, Yihang Li, Mrigendra Rajput	W(4)
	Language Development and Associated Brain Connectivity Supports Recovery from Stuttering	Madeline Van Eck, Rowaan Hermz	W(5)
	Representations of Heroism in Medical Dramas	Sydney Seese	W(6)
	Does Conservation Reserve Program land support honey bee foraging through enhanced floral availability?	Abigail Seeger, Gabriela Quinlan, Rufus Isaacs, Meghan Milbrath	W(7)
	High Rates of Maternal Mortality in the United States	Katelyn Smiles	W(8)
	The Knot	Kristin Gunkelman, Michael Marchiori, Nikki Ghazimorad, Anjali Makam, Piper Brase, Rosalyn Schaefer	W(9)
	Some Applications of Multivariable Calculus in Astrophysics	Anna White	W(10)
	Tetration: Finite, Infinite, and Complex	Brielle Komosinski	W(11)
	The Best Clean You Can Get: A Lifetime Analysis of Green Energy	Kristian Wilks	W(12)

## Monday Poster Presentations in East/West Lounges

Displayed Timeslot, Presenter at Poster	Title	Presenter(s) (Class)	East/ West
	Marie Curie: An Analysis of the Impact of Her Discovery of Polonium and Radium in Modern Science	Terrance	W(13)
	Oxygen Induced Plastic Biodegradation	Anastasiya Trzcinski	W(14)
	Bloodstain Pattern Analysis	Breanna Koslowski, Kaylie Chiles	W(15)
	Life and Legacy of Irene Joliot-Curie	Tyler Robertson	W(16)



## Tuesday Oral Presentations

Room	Specific Time	Title	Presenter(s) (Class)
<b>C7</b>	<b>8:00-9:15a</b>		<b>LB 172L 003</b>
	1	Malfunction of Kidney's from Kidney Stones	Nick Petrykowski, Harrison Plummer, Mithil Gundi
	2	IR Spectroscopy Use in Forensic Science (Carbon Dioxide Lab)	Angelica Cabatu, Andrew Brooks, Kate Hoegeman
	3	Effects of Acidic Soil on Human Health	Madison Patrus, Katelyn Johnson, Anna Trzcinski
<b>C6</b>	<b>9:15-10:30a</b>		<b>LB 172L 016</b>
	1	Effects of Carbon Dioxide on Earth's Atmosphere	Kaitlin Ziadeh, Jordan Robinson, Nick Piner, Pedro Barbosa Machado
	2	Additional Remedies for the Removal of Kidney Stones	Gabrielle Brakonieccki, Meghan Zula, Dhaval Gandhi, Yuya Nishida
	3	The Chemistry of Biodiesel	Ireland Papa, Amanda Motts, Jeannine Tran, Luke Noah
	4	How gallstones form from precipitation of cholesterol in bile.	Leah Braucher, William Griffith, Haaniya Mallick, Deni Peterson
	5	The Impact of High Iron Levels in Water Bodies on the Ecosystem	Onyebuchi Amanze, Therese Costantini, Emily Hawker, Saiteja Mogasala
<b>C7</b>	<b>11:30a-12:45p</b>		<b>LB 172L 004</b>
	1	The Use of Spectroscopy in the Manganese Lab and its Applications to Medical Laboratories	Michael Wischer, Emily Bishop, Kylee Hasbany, Claire Banyas
	2	The Impact of Carbon Dioxide on the Human Body	Sam Steurer, Kam Porter, Ross Deckmann
	3	Ion exchange in hard water	Tina Vuljaj, Chris Kim, Zach Jennings, Inna Espinoza
	4	Uses of Chemical Kinetics in the Medical Field	Lexi Vu, Aashka Chhabria, Ethan Stav, Phelan Wolf
<b>C7</b>	<b>3:00-4:15</b>		<b>LB 172L 005</b>

## Tuesday Oral Presentations

Room	Specific Time	Title	Presenter(s) (Class)
		1 The Effect of CO2 on Our Muscles	Natalie Bobowski, Neha Vallabhaneni, Maria Dessinger
		Common Uses of Vacuum Filtration	Zaria Contejean, Isabel Petrescu, Jenna Snider, Julia Witek
		Emulsification of Oil in Polluted Water	Emily Diederich, Zoey Wilson, Travis Chase
		2 Applications of CO2 Chemistry in the Real World	Eric Schock, Heidi Slawson, Chris Williams, Mahmood Mohammed
		3 Carbon Dioxide and its Implications	Gagana Borra, Ashley Korendyke, Parang Khanal
<b>C6</b>	<b>4:15-5:30</b>		<b>LB 172L 017</b>
		1 Michigan State University's Water Quality	Lili Bacon, Malachi Flood, Matt Caruso, Dia Melhotra
		2 Chemiluminescence in the Real World	Christina Clinton, Adam Sternschuss, Ciara Sramek, Braden Kilpatrick
		3 Chemical kinetics and how it relates to the human body	Ritika Sanikommu, Nitya Deshpande, Monalisa Tinaj, Chloe Jones
		4 Chemical Solubility and Its Effects In Daily Life	Skylar Richardson, Stephen Fong, Bryce Houser, Nicole Cubba
<b>C7</b>	<b>7:00-8:15p</b>		<b>LB 172L 006</b>
		1 Causes of Kidney Stones and Home Remedies	Jake Petish, Katie Muczynski, Kiersten Walsworth, Sarah Goodwin
		The Application of Raman Spectroscopy to Kidney Stone	Ayla Schwartz, Mikaela Vandenberg, Ally Bauer,
		2 Identification and Forensic Investigation	Brennan Hoadley
		3 The Uses of Spectroscopy	Johanna Feiner, Alex Heffner, Nicole Lipcaman, Mason Miller
		4 kidney stones	Shakhlo Aminova, Molly Sochar, Kyra Powers, Mitch Borin
<b>C6</b>	<b>8:15-9:30</b>		<b>LB 172L 018</b>

## Tuesday Oral Presentations

Room	Specific Time	Title	Presenter(s) (Class)
	1	We're looking at the soap lab in more depth	Grant McBride, Tim Park, Sean Williams
	2	The Chemistry of Testing Water Quality	Alana Barton, Adrianna Hoffman, Michael Gruntfest, Ryan Pittel
	3	How kinetics affect the field of anesthesiology	Palmer Kokesh, Kester Stefani, Serene Abu-Hamdan

## Tuesday Poster Presentations

General Timeslot 10:20-11:40am	Presenter with Poster 10:20-11:40am	Title	Presenter(s)	East or West
<b>LB 144 Sections 1, 2</b>				
		TBD	Organismal Biology Class Research	W1-W22
		Multiple posters	West Lounge	
		The Influence of Counterfactuals on Desire for Power	Tyler Mattenson, Sabrina Bronni, Victoria Denison, Katie Solomon, Maren O'Connor, Raven Dominguez	W(23)
		The Social Organization of Student-led Fieldwork	Nicole Lehpamer, Daniel Menchik	W(24)
<b>12:40-2:00pm</b>	<b>12:40-2:00pm</b>		<b>LB 144 Sections 3.4</b>	
		TBD	Organismal Biology Class Research	
		Multiple posters	West Lounge	
<b>12:40-2:00pm</b>	<b>12:40-2:00pm</b>		<b>LB 145 Section 2, 4</b>	
		TBD	Cell and Molecular Biology Class Research	
			East Lounge	
<b>2:40-4:00pm</b>	<b>2:40-4:00pm</b>		<b>LB 145 Section 6, 12</b>	
		TBD	Cell and Molecular Biology Class Research	E1-E18
			East Lounge	
<b>2:40-4:00pm</b>	<b>2:40-4:00pm</b>		<b>LB 145 Section 7, 8</b>	
		Authenticity of Fish Comparing Corporation Size	Haley Schultz, Kristin Konja, Kayla Wilson, Sachin Kumar	W(1)
		Profit made by Supermarkets as a results of Fish Mislabeled	Mckenna Galloway, Roshni Desai, Seema Arshed, Addison Healey	W(2)
		Mislabeled of fish species in retailers within the lansing area	Jo Joo, Courtney Accoursi, Jake Gattuso, Paige Bimberg	W(3)
		Investigation of Fish Fraud in East Lansing Through Analysis of 16s rRNA Gene	Brendyn Allison, John Robertson, Marissa Hansen, Aven Zitzelberger	W(4)

## Tuesday Poster Presentations

General Timeslot	Presenter with Poster	Title	Presenter(s)	East or West
		Potential Mislabeling of Sushi Fish	Samer Badri, Dawson King, Dakota Shank, Nimesha Liyanage	W(5)
		Identification of Fish Sold in the Greater Lansing Area using DNA Barcoding	Lauren Grainger, Jewel Owens, Caroline Baidoon, Alyssa Lopez	W(6)
		Amplifying mtDNA 16S rRNA gene to examine local fish mislabelling	Ben Dolgikh, Rashemia Powell, Lauren Cole, Lexi Vu	W(7)
		BLAST Analysis of 16S rRNA Gene for Fish Fraud in East Lansing	Jacob Bloom, Ian Destroyer, Sierra Jankowski, Josh Richardson	W(8)
		Identifying Supermarket Fish Via DNA Barcoding	Jay Getzinger, Kristin Luu, Spencer Schab, and Timothy Roback	W(9)
		Sequencing of Meijer Bought Fish and the Effects of Marketing in the Fish Industry	Brennan Regan, Colleen Riling, Leigha Brown, Kail Brown	W(10)
		Mislabeled seafood in local Lansing supermarkets	Alexa Wright, Chris Davlantes, Yuka Miyoshi, Lena Kim	W(11)
		A Study of the Effects of Mislabeled Fish in Restaurants in the East Lansing Area	Brendan Carney, Jason Lin, Alex Haver, Beth Feldman	W(12)
<b>2:40-4:00pm</b>	<b>2:40-4:00pm</b>		<b>LB 145 Section 10, 11</b>	
		Genetic identity of fish from pier to plate in the Greater Lansing Area	Sierra Alvarado, Jessica Baxter, Katie Bederka, Miranda Maher	W(13)
		Genetic analysis of potentially mislabeled fish using the 16S mitochondrial DNA in the Greater Lansing Area	Camille Green, Hasaan Hayat, Katie Muczynski, Jillian Yuhas	W(14)
		DNA barcoding analysis of potentially mislabeled fish in Okemos, Michigan	Ashlee Hendricksen, Sam Mccarthy, Harry Nguyen, Courtney Sykes	W(15)
		Genetic analysis of fish samples from restaurants in the Greater Lansing Area	Kenzie Cannarile, Robert Davison, Mia Fitzner,	W(16)
		Fish species verification in Ingham County using DNA sequencing	Noah Heichel, Joe Kelly, Sarah Klein, Danielle Miner	W(17)
		Analysis of raw fish DNA to determine species' identity	Jane Fitzgerald, Kiersten George, Jordan Robinson	W(18)
		Evaluation of commercial fish labels through DNA barcoding analysis	Mackenzie Budd, Kelsey Macdonald, Abi Otwell, Evan Riley	W(19)
		Correlation between genetic identity of fish species and market price of fish species	Cameron Carpenter, Megan Kempa, Nick Newman, Brianna Seymour, Nick Zaima	W(20)

## Tuesday Poster Presentations

General Timeslot	Presenter with Poster	Title	Presenter(s)	East or West
		Analysis and comparison of fish mislabeling in grocery stores versus restaurants using PCR and Sanger sequencing in Lansing, Michigan	Lauren Gregor, Patrick Kurtz, Amanda Sasinski, Brianna Woodbeck	W(21)
<b>3:00-5:00pm</b>	<b>3:00-4:50pm</b>	<b>Sociological Research in a Hospital Setting</b>	<b>LB 492</b>	<b>East Only</b>
		Characterizing the Medical Oncological Nurse	Jake Nitzkin, Debieana Jackson, Ruchi Mangal, Satya C	E(19)
		Effect of patient compliance on physician patient relatio	Annelise Kulpanowski, James Chen, Dylon Daoud, Dean	E(20)
		The Good Death	Katie Wheeler, Evelyn Fadel, Connor McCormick, Calli Lo	E(21)
		Recovery and Responsibility in Sparrow Hospital's Orth	Adam Barrett, Analica Montaner, Asim Ghani, Emily Neag	E(22)
		The Hot Potato Phenomenon	Elizabeth McCormick, Phoebe Holmes, Sreekar Malempa	E(23)
<b>Independent research</b>		Barriers to HIV service access among Connect to Protect communities across the United States	Jake Quarles, Kelli Broessel, Trevor Strzyzkowski, Danielle Chiaramonte	E(15)
Honors Option	<b>4:10-5:00</b>	Viability of Swinging on a Swingset as a Method of Exercise	Aven Zitzelberger, James Teuber, Sophia Saco	E(16)
Honors Option	<b>4:10-5:00</b>	Combining 2 Cultures Conference Presentation	Jacob Markovicz, Emily Wong	E(17)
Honors Option	<b>4:10-5:00</b>	LB 172 Honors Option	Abigail Seeger	E18)
<b>4:10-6:00pm</b>	<b>4:10-6:00pm</b>		<b>LB 145 Section 1</b>	<b>East Only</b>
		Examining Fish Mislabeling in the Lansing Area using DNA Barcoding	Evan Corcorran, Hailey Gosen, Kerrie Kopicko, Lindsey Michael	E(1)
		DNA Barcoding of Fish Samples from Lansing Area Stores for Potential Mislabeling	Brooke Bliznik, Olivia Boeberitz, Lydia Elford, Abby Schultz	E(2)
		Implementing DNA Barcoding for Determining Seafood Mislabeling in Lansing, MI	Ashley Nance-Panek, Joban Singh, Christina Smith, Karla Yacoup	E(3)
		Identifying Fish Mislabeling in the Lansing Area Using DNA Barcoding	Alex Leonowicz, Vanessa Raptis, Sofia Sokansanj	E(4)
		Seafood Mislabeling and Substitution Determination in the East Lansing Area	Michaela Christenson, Erin Kurth, Surya Sudarsan, Seth Warren	E(5)
		Study of Fish Mislabeling in Markets versus Restaurants in the Mid-Michigan Area	Tayyab Ali, Harold Hersback, Viet Phan	E(6)

## Wednesday Oral Presentations

Room	Class order	Title	Presenter(s)
<b>C7</b>	<b>11:30a-12:45p</b>		<b>LB 172L 008</b>
	1	Water Quality Lab Real Life Application to Flint Water Crisis	Chloe Smith, Thanh Lai, Piper Brase, Natalie Masopust
	2	Kidney Stones	Mary Kay Burzych, Hope Meyers, Hamza Kaakarli, Sharbel Daher
	3	Ion Exchange: A Farmer's Dream	Abigail Struble, Amanda Northrup, Megan Seyerle, Matt Spampinato
<b>C7</b>	<b>3:00-4:15</b>		<b>LB 172L 009</b>
	1	Applications of Kidney Stone Chemistry	Ashleigh Tindle, Sarah Sitto, Michael Cadigan, Shannon Doane
	2	Water Quality Lab	Jalen Green, Ali Abdelmagid, Natalie JaBaay, Valerie Khaykin
	3	Applications of Saponification and Transesterification	Joe Hrabnicky, Elie Huez, Anjali Makam, Kyleigh Phillips
<b>C6</b>	<b>4:15-5:30</b>		<b>LB 172L 019</b>
	1	Beer's Law in Society	Abby Cortis, Nataleigh Muscott, Roshan Patel, Jacob Stamm
	2	Why Healthy Ecosystems Need Healthy Soil	Grace Cleland, Kaden Dennis, Mohini Mukherjee
	3	Kidney Stones: A Precipitate Problem with an Easy Fix	Jason Blondeau, Sam Gregoire, Frankie Ruffino, Kimmy Watson
	4	Swimming in Acid: Ocean Acidification	Kellie Walker, Mackenzie Wilson, Chris Reeves, Nikhil Patel
	5	Kidney Stones (title TBD)	Wil Schikorra, Dev Dayal, Heem Vaniawala
<b>C7</b>	<b>7:00-8:15p</b>		<b>LB 172L 010</b>
	1	Kidney Stones: A Horror Story	Abhijeet Suryadevara, Sydney Tieman, Madison Vandenberg, Margaret Jones
	2	The Chemistry of Kidney Stones	Alena Herwig, Olivia Langenfeld, Anya Inman, Faruq Agboola

		3 Chemical Kinetics in the use of Medical Nitric Oxide	Anna Bowling, Kaitlin Gratti, Dawson King, Greg Battley
		4 Increasing variability of Water Quality Lab	Aadi Nalla, Michael Moran, Evan Zobel
<b>C6</b>	<b>8:15-9:30</b>		<b>LB 172L 020</b>
		1 Chemistry behind the formation and dissolution of kidney stones in the human body.	Eva Mulherkar, Legend Kenney, Caleb Wendt, Alexis DeVries
		2 Kidney stone lab	Shelby Hogan, Dayllan Skinner, Tyler Robertson, Casey Borowsky
		3 Applications and Analysis of Water Quality Testing	Rachel Shereda, Brian Walrad, Danielle Hohman; Grace Doyle
		4 How Solubility is Changing the Environment	Grace Joachim, Grace Kuza, Neel Patel, Piper Hurlburt



## Thursday Oral Presentations

Room	Class order	Title	Presenter(s)
<b>C7</b>	<b>8:00-9:15a</b>		<b>LB 172L 011</b>
	1	Farming techniques and soil chemistry	Kayla Hogan, Emily Simonis, Natalie Samaan, Susan Hoffman
	2	Crime Against Humanity: The Flint Water Crisis	Blerta Prenaj, Gabriel Seilo, Trevor W.
	3		
<b>C6</b>	<b>9:15-10:30a</b>		<b>LB 172L 021</b>
	1	Cleaning Beer Tanks	Abigail Skidmore, Alli Hurt, Lena Edson
	2	The Relevance of Carbon Dioxide	Destiny Ong, Julia Kelm, Madelyn Chapman
	3	Salts and their various applications	Elijah Keller, Roman Grossi, Lindsey Stafford
	4	Carbonation Station	Rosalyn Schaefer, Mitch Gajar, Danny Baldwin
<b>C103</b>	<b>10:20-12:10pm</b>		<b>LB 325B</b>
	1	Natural Capitalism Project Pitch to Investors	Ryan Ferrigan, Nathan Flowers, Breandan Oatman, Jordan Stasch, Noah Zalapi
	2	Natural Capitalism Project Pitch to Investors	Kelly Blakemore, Olivia Boeberitz, Andi Frost, Lauren Mcgrath, Natalie Whise
	3	Natural Capitalism Project Pitch to Investors	Courtney Accorsi, Allison Loch, Jeff Nader, Paige Pieczarka, Jessie Plaehn
	4	Natural Capitalism Project Pitch to Investors	Jordan Gerras, Megan Gildersleeve, Katie Ramp, Faith Slubowski
	5	Natural Capitalism Project Pitch to Investors	Megan Bolger, Maggie Brown, Jerry Camacho, Lauren Stiffler, Abby Sulesky
	6	Natural Capitalism Project Pitch to Investors	Casey Chartier, Briana Ferman, Emma Kennedy, Joey Whall, Kristian Wilks
<b>C7</b>	<b>11:30a-12:45p</b>		<b>LB 172L 012</b>
	1	Ocean Acidification	Matt Kilroy, Matt Ross, Molly Crusse, Lauren Shepherd
	2	Burn Baby Burn, Rev It Up, other clever names (Biodiesel lab)	Noah Croasdill, Kaelyn Fife, Ryan Shafer, Lauren Jernstadt
	3	The effects of precipitation reactions on water hardness(kidney stone lab)	Karan Singh, Nick Bourbeau, Destini Jackson
	4	Kinetics and kidney stones	Justin Czarnecki, Josh Elkhawand, Jacob Mears
	5	Real Applications of Water Quality	Yousuf Khalil, Aven Zitzelberger, Cameron Raedy
<b>C6</b>	<b>11:30a-12:45p</b>		<b>LB 172L 022</b>

## Thursday Oral Presentations

Room	Class order	Title	Presenter(s)
	1	The Chemistry of Dissolving Kidney Stones	Camryn Cather, Keegan Byrnes, Callahan Kornak-Kotarba, Emily Walen
	2	Ocean Acidification and Climate Change	Andra Kotsonis, Nick Crane, Praneet Dara, Dana Reeves
	3	Destruction of Coral Reefs Due to Ocean Acidification	Sylvia Jennette, David Wojciechowski, Taylor MacKenzie, Katerina Kitsios
	4	Carbon Dioxide in Medicine	Klayton Reding, Julia Evanski, Brooke Bassett, Moe Mallah
<b>W40</b>	<b>3:00-4:50</b>		<b>LB 492</b>
	1	TBD	
	2		
	3		
<b>C7</b>	<b>3:00-4:15</b>		<b>LB 172L 013</b>
	1	Glow stick lab	Grace cardellio, Miglena Mihaylova, Matt Leonard, Charlie Mahony
	2	Carbon Dioxide: Threatening the Future	Caleb Rispler, Kate Rogowski, John Seger
	3	Ion Switching in the Environment	Daria Wedeven, Patrick Clouse, Emma Burke
	4	Kidney Stones and Solubility	Shagane Kotcharian, Kaely Bolio, Brooke Pelshaw
	5	A Shocking Treatment: Shock Wave Lithotripsy	Kyle Schiel, Quinn Babcock, Kevin Kempf, Alli Hartwick
<b>C6</b>	<b>4:15-5:30</b>		<b>LB 172L 023</b>
	1	Equilibrium in the Human Body	Matthew Cederman, Amy Dedoyard, Raywa Masti, Gabi Meitler
	2	The Effect of CO2 Pollution on Nitrogen Fixation	Dana Josifoski, Oren Lerner, John Lee, Marino Moccia
	3	CO2 and the Impact it has on Oceans	Cameron Fuentes, Akash Divecha, Zion Bediker
	4	The Chemistry Behind the Flint Water Crisis	Christine Lee, Gabby Lee, Brendan Rawlings, Akhil Sekar
	5	From Kidney Stones to Ancient Art: Raman Spectroscopy	Olivia Messing, Emma Rosenthal, Franz Marasigan, Varun Mangal
<b>C7</b>	<b>7:00-8:15p</b>		<b>LB 172L 014</b>
	1	The Glow Stick Mystery Revealed	Brenda Cheung, Abby Seeger, Kayla Schisler, Emily Babcock
	2	CO2 and it's Real World Applications	Jeremy Cuff, Jack Dodson, Brendan Wiley
	3	How water quality effects your health	Karina, Brandon, Julia, Simon
<b>C6</b>	<b>8:15-9:30</b>		<b>LB 172L 024</b>

## Thursday Oral Presentations

Room	Class order	Title	Presenter(s)
	1	The Danger of Greenhouse Gases(CO2 Lab)	Pooja Gadhiya, Will Shuster, Ian Kluemper, Ellie Cataldo
	2	Water Shed Experiment	Cassandra Eddy, Raegan Vorce, Shereen Daniel, Noah Aurand
	3	Importance of Water Qualities	Manwinder Kaur, Ben Walters, Madison Tuscany, Pooja Dave
	4	Carbon Dioxide Lab Presentation	Makenna Hill, Caitlin Ryan, Sarah Bassett
	5	Connections between the kidney stone lab and real kidney stones	Sean Burke, Jackson Catchot, Sarah Kerr, Nagib Ashabina

# Thursday Poster Presentations

General Timeslot	Presenter with Poster	Title	Presenter(s)	Location
7:00-9:00pm			<i>BS 191H</i>	East Lounge
		Poster titels TBD		