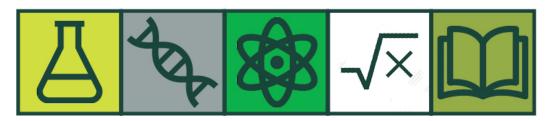


2019 Schedule

April 16-26

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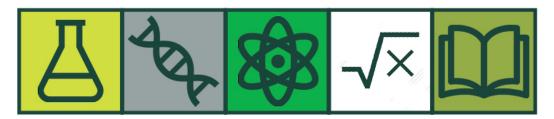




2019 Schedule

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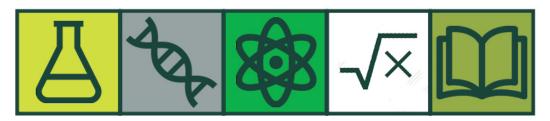
List of participating classes	3
Class participation by time/date	4
Complete Schedule	7
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Wednesday Apr 17	7
Thursday Apr 18	8
Friday Apr 19	9
Monday Apr 22	10
Tuesday Apr 23	11
MSUFCU Poster Session (Tuesday, Apr 23rd 6-8pm)	15-17
Wednesday Apr 24	18
Thursday Apr 25	25
Friday Apr 26	28



2019 Schedule

Full schedule of participating classes and times

LB 144	Apr 16-18
LB 145	Apr 22-23
LB 171	Apr 24
LB 172	Apr 24
LB 172L	Apr 22-26
LB 324	Apr 19, 22
LB 348	Apr 22
LB 492	Apr 23



2019 Schedule

Tuesday April 16th

Poster session – East Holmes Lounge

LB 144	Dresser-Briggs	3-6pm
LB 144	Dresser-Briggs	7-10pm

Wednesday April 17th

Poster session – East Holmes Lounge

LB 144	Dresser-Briggs	3-6pm
	1 2.000. 2990	

Thursday April 18th

Poster session – East Holmes Lounge

LB 144	Dresser-Briggs	3-6pm
BS 182H	Urbance	5:30-7:00pm

Friday April 19th

Oral Presentations

LB 324	Degraw	10:15-10:40am	In C102

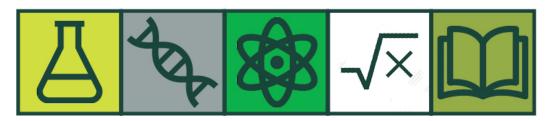
Monday April 22nd

Oral Presentations

LB 324	Degraw	10:15-10:40am	In C102
LB 348	Luckie	12:40-2:30pm	In C005
LB 172L	Barnard	3:00-5:50pm	In C007/C006

Poster session – East Holmes Lounge

LD 115	Cmith	10:20am 12:10am
LB 140	Smin	10:20am-12:10pm



2019 Schedule

Tuesday April 23rd

Oral Presentations

LB 172L	Saraha	8:00-10:50am	In C007/C006
LB 172L	Adams	7:00-9:50pm	In C007/C006

Poster session – East Holmes Lounge

MSUFCU Poster Session – East and West Holmes Hall



LB 145	Masani	8-9:20am
LB 145	Masani	10:20-11:40am
LB 145	Saldana	10:20-11:40am
LB 492	Menchik	12:40-2:20pm
LB 145	Smith	4:10-6:00pm

6-8:00pm – Poster presentations and judging

8:00pm - Award announcements

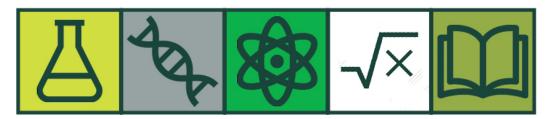
Wednesday April 24th

Oral Presentations

LB 172L	Saraha	8:00-10:50am	In C007/C006
LB 172L	Saraha	3:00-5:50pm	In C007/C006

Poster session – East and West Holmes Lounge

LB 172	Barnard	9:10-10:00am
LB 171	Cass (West Lounge only)	10:20-11:10am
LB 172	Saraha	11:30am-12:20pm
LB 172	Davis (West Lounge only)	1:50-2:40pm
LB 172	LaDuca	3:00-3:50pm



2019 Schedule

Thursday April 25th

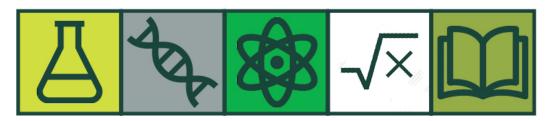
Oral Presentations

LB 172L	Barnard	8:00-10:50am	In C007/C006
LB 172L	Cass	11:30am-2:20pm	In C007/C006
LB 172L	Cass	3:00-5:50pm	In C007/C006
LB 172L	Adams	7:00-9:50pm	In C007/C006

Friday April 26th

Oral Presentations

LB 172L	Saraha	8:00-10:50am	In C007/C006
LB 172L	Adams	11:30am-2:20pm	In C007/C006



2019 Schedule

Tuesday April 16th

LB 144 (Dresser Briggs) Poster session – East Lounge – 3-6pm Multiple Presentations TBD

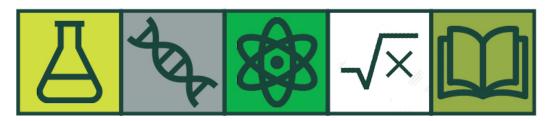
LB 144 (Dresser Briggs) Poster session - East Lounge - 7-10pm

Title	Authors	Location
Pharmaceuticals in Wastewater May Influence the Rate of	Maria Berry, Abby DeWeerd, McKenna	
Duckweed (Lemna minor) Growth	Merkel, Alaina Rubenacker-O'Dell	E(1)

Wednesday April 17th

LB 144 (Dresser Briggs) Poster session – East Lounge – 3-6pm

Title	Authors	Location
Got light pollution?: An experimental study on the effects		
of UV, UVB, and LED light exposure on mortality rates of	Alexander Kirby, Chayanne Petit,	
Planorbidae	Claudia Walz	E(1)
The effects of Human Produced Carbon Dioxide on the		
Growth of Ankistrodesmus	Kevin Ely, Humza Bhatti, Makenna Hill	E(3)
Experimental Evaluation of the Impact of Hydroponic		
Technique vs. Soil Technique on the Final Biomass of		
Raphanus raphanistrum subsp. sativus	Joe Corner, Srikar Kesamneni, Bella Said	d E(5)



2019 Schedule

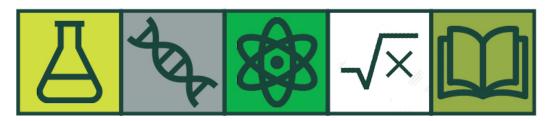
Thursday April 18th

LB 144 (Dresser Briggs) Poster session - East Lounge - 3-6pm

Title	Authors	Location
Killer Salt? Experimental Study of the Impact of Road Salt		
(NaCl) on the Growth and Health of Switchgrass (Panicum	Hailey Bond, Morgan Fellows, Nicholas	;
virgatum)	Srodes, Jacob Stamm	E(1)
Experimental study of the effects of ibuprofen on the		
behavior of Planorbis planorbis	Rachel Arkin and Sam Shuster	E(3)
Additional presentations TBD		E(5)

BS 182H (Urbance) Poster session - East Lounge - 5:30-7pm

Title	Authors	Location
	Alexa Richardson, Emily Hanner,	
Allium Cepa Root Staining for Mitotic Cells	Katie Newville, Dayne Plummer	E(1)
	Alexis Browning, Olivia Duru,	
Microbial Fuel Cells	Andrea Williams, Jarred Lenoir	E(2)
Investigation of Nitrogen Cycling Genes in Different	Brooke Gargland, Neel Patel, Tom	
Soil Samples	Douglas	E(3)
Fact or Fad: Do Kombucha Probiotic Drinks Really	Christina Clinton, Kenya Daniels,	
Enhance Metabolism	Roya Rochelle, Nicole Vezina	E(4)
Detection of E. Coli in the Red Cedar River through	Isabella Giviyan, Sophie Poterala,	
the means of three different media	David Wojciechowski	E(5)
Enriching Winogradsky Columns for Caffeine-	Aastha Bahl, Neil Garg, Alexandre	
Degrading and Caffeine-Tolerant Bacteria	Wolf	E(6)
	Mia E. Gaines, Kiara C. Johnson,	
TBD	Tracy B. Markray II	E(7)
	Priyanka Bhoopathi, Anna Faybrick	,
Antibiotic Resistance in Store Bought Red Meat	James Kinville, Harrison Plummer	E(8)
	Onyebuchi Amanze, Marcel	
Horseradish Peroxidase: The Next Frontier?	Coleman, Kwame Kannatey-Asibu	E(9)
	Katrina Collins, Alayna Henry, Torey	,
Quantification of the LacZ Gene in E.Coli Using qPCR	Fischer, Joshua Wiesemann	E(10)



2019 Schedule

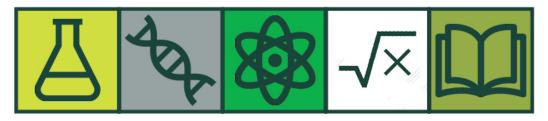
What's in your water?: Analysis of Coliform Detection	Amanda Adams, Jessica Fattal, Jailyn	
Methods	Hicks, Tatiana Maine-Brown	E(11)
Comparing the Effects of Various Caffiene	Styma Tania, Tanner Savannah,	
Concentrations on Mouse Embryonic Fibroblasts	O'Connell Kristina, De Sibour Alanna	E(12)
	Mitchell Alekman, Brittany Bush, Kat	
Finding Nitrogen-Fixing Cyanobacteria	Ebert, Madilyn Porritt	E(13)
Detection of Fraudulent Fish Species in Local Markets	Nikita Bhangu, Lauren Jernstadt,	
via Protein Electrophoresis	Roshan Patel, Nathan Seamans	E(14)
Identification of Bioluminescent Bacteria from Store	Julia Evanski, Leah Knox, Janice	
Bought Seafood	Smith	E(15)
	Ashley Atkinson, Jennifer Entrup,	
The effect of increased acidity on the soil microbe	D'Mario Northington, Emily	
community of the Red Cedar River	SeGraves	E(16)
T-RFLP analysis of bacterial communities in the Red	Diego Collazo, Therese Costantini,	
Cedar River	Gabby Encinas, Anlin Larson	E(17)
Detection of Sulfate-Reducing Prokaryotes in	Emily Babcock, Dana Josifoski,	
Environments of Variable Oxygen Levels	Merlinda Sewavi	E(18)
An Analysis of the INT Gene of Salmonella	Biyanna France, Kalina Foster,	
Bacteriophage from the Red Cedar River	Anusha Mamidipaka	E(19)
Testing Antibiotic Resistance Using PCR	Raina Awdish, Miriam Kaburu, Kiara	
Amplification	Stevenson	E(20)

Friday April 19th

LB 324 (Degraw) Oral Presentations - C102 - 10:15-10:40am

Title Authors

The perpetuation of gender serotypes through toys and furniture William Spagnuolo



2019 Schedule

Monday April 22nd

LB 324 (Degraw) Oral Presentations - C102 - 10:15-10:40am

Title	Authors
The Oppression of Female Sexuality	Emma Burke

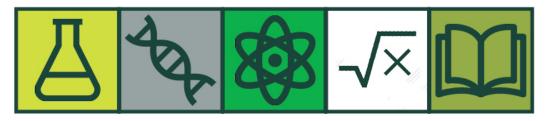
LB 145 (Smith) Poster session – East Lounge – 10:20am-12:10pm Multiple Presentations TBD

LB 348 (Luckie) Virtual Reality Movies - C5 - 12:40-2:30pm

Title	Authors
	Katie Bederka, Jacob Wolfe and Cameron
A Study in Group Collaboration	Carpenter
Dynamics of Two Groups- in the same class	Joe Kelly and Michael Reiterman
Teams & Streams	Jad Mourad, Robert Davison and Megan Pastrick

LB 172L (Barnard) Oral Presentation - C6/C7 - 3-5:50pm

Title	Authors
Biological Effects of Water Quality Impurities on the	Veronica Azar, Mikayla Calverley, Merideth
Human Body	Michael, Vishrudh Vasudevan
	McKenna Patterson, Chloe McCauley, Sara Hak,
Drowning in Acid: Ocean Acidification	Osten Eschedor
The Suds Behind the Soap	Abby Rochlen, Emma Bush, Megan Ciric



2019 Schedule

Tuesday April 23rd

LB 172L (Saraha) Oral Presentation - C6/C7 - 8-10:50am

Section 3

Title	Authors
	Julianna Nagy, Yamini Pandey, Eric Owczarzak,
Application of Kidney Stone Home Remedies	Sam Shuster
	Melissa Ortiz, Grant Racer, Hanah Parag,
Look At That Glow	Matthew Berg
	Amita Dutt, Josiah Wlillis, Nicholas Srodes, Jorge
The Environmental Effects of Carbon Dioxide Levels	Flores
	Anna Martin, Suraj Desai, McKenna Pilley,
The Soap Lab	Mackenzie Bachert

Section 16

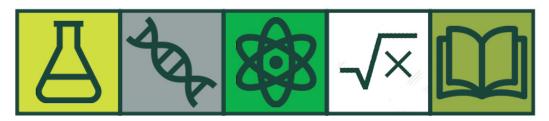
litle	Authors
Shampoo: Bases, Bonding and Buffers	Joanna Colovas, Zach Miller, Harrison Roberts
Water We Drinking?: Water Quality in First and Third	Aastha Bahl, Sophia Ripley , Austin Fedewa, Raina
World Countries	Awdish
	Elizabeth Hartz, Sandy Chen, Brian Rago, Maria
Water Quality of MSU and Michigan	Berry
Effects of Flushing Medicines Down the Toilet On Water	Sarah Bajema, Gia Wahlberg, Yasmine Tenouri,
Quality	Hailey Bond

LB 145 (Masani) Poster session - East Lounge - 9-9:20am

Multiple Presentations TBD

LB 145 (Masani) Poster session - East Lounge - 10:20-11:40am

Multiple Presentations TBD



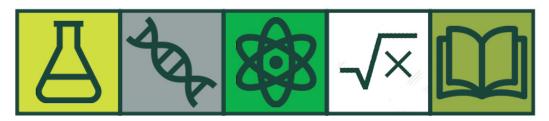
2019 Schedule

Independent research presentation

Title	Authors	Location
The Impacts of AVIDA-ED on Undergraduate Student		
Performance with the Conceptual Inventory in Natural		
Selection (CINS)	Anna Bowling, Robert Pennock	E(1)

LB 145 (Saldana) Poster session - East Lounge - 10:20-11:40am

Title	Authors	Location
Appraising Labels Specific to Colony Forming Units of	Sam Walters, Jalen Green, Manwinder	
Bacillus Coagulans	Kaur, Gabe Seilo	E(13)
Is there a difference between luxury brand and generic		
brand yogurt when comparing probiotic quantity and	McKenna Bowen, Shefali Merchant,	
composition?	Emily Fox, Kam Porter	E(14)
Determining Label Accuracy and Survival of Bacteria in	Quinn Babcock, Kaitlin Ziadeh, Asad	
Stomach pH of a Commercial Probiotic	Muhammed, Karin Singh	E(15)
Testing Efficacy of Different Forms of Probiotics Against	Nicole Hefty, Ireland Papa, Morgan	
Stomach Environment	Schafer, Madison Vanden Berg	E(16)
Probiotics on Probation: Scrutinizing Label Accuracy of	Zachary Shepard, Ryan Nelson, Ciara	
Popular Probiotic Brands	Sramek, Emma Burke	E(17)
Should all probiotics be regulated as drugs for FDA	Sophie Snow, Anna Lin, Shannon	
regulation?	Stevens, Mitchell Gajar	E(18)
The Effects of Expiration on the Bacterial Count and Type	Sean Burke, Deenarah Giraud, Lauren	
in Probiotic Yogurt	Rosquin, and Monalisa Tinaj	E(19)
Identifying Probiotic Bacteria in Popular Yogurt Brands	Daruk Garlapati, Sarah Kerr, Yuya	
identifying Frobiotic bacteria in Fopular Toguit Brands	Nishida, and Kate Rogowski	E(20)
Are You Paying Too Much? A comparison between	Jenna Himelhoch, Reema Mody, Kunjal	
differently priced brands of yogurt and kombucha.	Patel, and Eric Schock	E(21)
Testing Survival of Probiotics Found in Different Brands of		
Yogurt in Conditions that Mimic the Acidity of the Human	Pablo Kulyckyj, Matthew Caruso, Andra	a
Stomach	Kotsonis, Katerina Kitsios	E(22)
Which probiotic containing food (Bifidobacteria Pills,		
Kefir, Infant food, Yogurt) has the most probiotic		
microorganisms per serving size in pH environments	Noah Adams, Julia Chebbani, Jake	
resembling those of different parts of the GI tract?	Petish, and Jacob Schoener	E(23)
Analysis of Bacterial Growth in Three Popular Kombucha	Olivia Langenfeld, Bella Davidson, Luke	
Tea Brands Across LB and MRS Culture Media	Noah, and Jackson Catchot	E(24)



2019 Schedule

LB 492 (Menchik) Poster session - East Lounge - 12:40-2:20pm

Title	Authors	Location
Stress in Medical Professionals at Sparrow Hospital	Kelly Geith, Skyler Kerr, Andrew Roney	E(1)
The Role of Family in Traumatic Brain Injury Rehabilitation	Mari Dowling	E(3)
	Nick Corsi, Zane Alroshood, Andrew	
Scutwork in Hospice: Perspectives and Observations	Najor, Mithil Gudi	E(5)
	Olivia Mackraz, Jessica Saadeh, Justin	
Social Interactions when Transitioning from Life to Death	Hudson	E(7)
	Joban Singh, Breandan Oatnan, Katie	
Expression of pain in the ER	Schram	E(9)
The Enhancement of Hospital Visits Through Therapy Dogs	Lauren Stiffler	E(11)

Independent research presentation

Title	Authors	Location
Perceptions, Beliefs, and Concerns About Alzheimer's		
Disease in Latino Populations	Marissa Cortright, Laura Y. Cabrera	E(1)

LB 145 (Smith) Poster session - East Lounge - 4:10-6pm

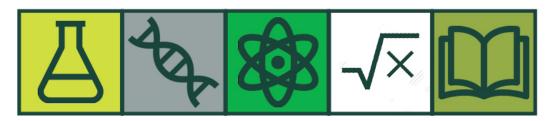
Multiple Presentations TBD

Independent research presentation

Title	Authors	Location
Physics of Roller Coasters	Tyler Robertson	E(1)
Feeling Neurochemical: The Effects of GABA and	Madison Sewick	
Glutamate Synthesis on Emotion		E(2)

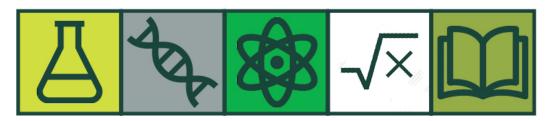
LB 172L (Adams) Oral Presentation – C6/C7 – 7-9:50pm

Title	Authors
Utilization of Mass Spectrometry in the Diagnosis of	Carson Gates, Joe Corner, Shannon Wicklund,
Cancers	Nima Forouzannia
CO2: A Fish Population's Death Sentence	Rachel London, Louis Kudzma, Montana Paton



2019 Schedule

Title	Authors
	Rachel White, Gretchen Stuben, Srushti
Glow Sticks and Bioluminescence	Narkhede, Cole Maloof
	Fiorella Sanabriabascha, Erica Schafer, Emily
The kinetics of cell signaling and signal receptors	SeGraves, Faisal Wajdi



2019 Schedule

Tuesday Apr 23, 2019

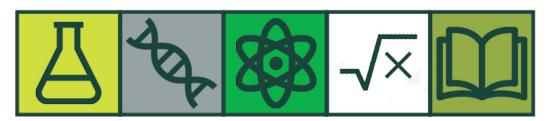
MSUFCU Poster Session - East and West Holmes Hall - 6-8PM

Presentation and Judging 6-8 pm

Awards announced at 8pm in TBD Lounge

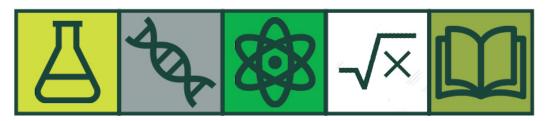


Title	Authors	Location
Seasonal Variations in Macro-and Micro-Mineral Content	Srikar Kesamneni, William Yakah, Jason	
of Grass-Finished Beef	Rowntree, Jenifer I Fenton	E(1)
Effects of Bacterially-Derived Short Chain Fatty Acids on	Kennedy Sawicki	
Human Colonic Epithelial Transporters		E(2)
Detection of G542X CFTR Mutation in Human Epithelial	Jad Mourad, Jessica Kim, Michael	
Cells Using PCR Design and Gel Electrophoresis	Cadigan, Pooja Dave	E(3)
Pregnancy History as an Important Predictor of Body Mass	Melissa Henning, Diana Pacyga, Jodi	
Index (BMI) in 45-54 Year Old Women	Flaws, Rita Strakovsky	E(4)
Nest Predation Risk Assessment of a Glyptemys	Sarah Klein, Cassie Dresser-Briggs	
muhlenbergii Translocation Program		E(5)
Surveying small mammals for the blacklegged tick (Ixodes	Gloria Yarandi	
scapularis) and associated pathogens in the Cleveland		
Metroparks (Cleveland, Ohio) in Summer 2018		E(6)
How Does Habitat Fragmentation Impact Abundance and	Carolyn Graham, Christopher Warneke,	
Richness of Mutualistic Plant-Dwelling Mites?	Marjorie Weber, Lars Brudvig	E(7)
Persistent organic pollutants in Hawaiian false killer	Michaela Kratofil, Gina Ylitalo, Robin	
whales (Pseudorca crassidens): variance in relation to life	Baird, Sabre Mahaffy	
history and social group		E(8)
The implications of dynamic rodent antipredator behavior	Jeremiah Eaton, Remington Moll,	
for disease ecology	Jonathon Cepek, Patrick Lorch, Jean	
	Tsao, Robert Montgomery	E(9)
Comparative analysis of two fungicide sensitivity tests for	Paige Pline, Sommer Desotel, Noah	
Helminthosporium solani	Rosenzweig	E(10)
Preliminary Data: Dietary supplementation with omega-3	Liz Ross	
docosahexaenoic acid (DHA) regulates silica-induced lung		
inflammation in acute autoimmunity		E(11)
Changing dietary fat content post-puberty influences	Saiteja Mogasala, Jonathan Schepper,	
mouse bone density	Richard Schwartz, Narayanan	
	Parameswaran, Laura Mccabe	E(12)
Strategies to Targeting Pancreatic Cancer	Lauren Jernstadt	E(13)



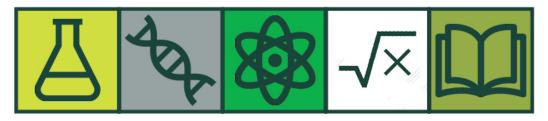
2019 Schedule

Is There a Chemical Basis for Neuronal Co-Transmission?	Katarzyna Purzycka	E(14)
Structure and Function of Drosophila melanogaster Insulin	Madeline Niblock, Ali Bayram, David N.	
Receptor Gene Regulatory Regions	Arnosti	E(15)
Methodology and Morphology in Harris Line Analysis	Aliana Schwartz	E(16)
Genotypic Identification Of CF Patients With The R117H	Cameron Bennett, Nitya Deshpande,	
Mutation of CFTR Using Buccal Cell DNA and Allele Specific	Sara Moussa, Ritika Sanikommu	
PCR		E(17)
Comparison and Validation of Two Gonadotropin-	Brooke Devries	
Releasing Hormone-Promoter Driven Cre Expressing Mice		E(18)
Role of Lipid Binding Proteins and Phosphatidic Acid on	Briaunna Murray, Amanda Koenig,	
Stress Response and Plant Development	Susanne Hoffmann-Benning	E(19)
Differential Regulation of Lipid Droplets by Cytokines in	Abhijeet Suryadevara	
Pancreatic Beta Cells		E(20)
Allergic Inflammatory and Mucous Cell Responses to	Sarah Shareef, James Wagner, D. Liu, R.	
Livestock Farm-Derived PM2.5 Associated with the Source	Vanderbriel, J. Boere, M. Gerlofs-	
of the Particulate Matter	Nijland	E(21)
Sex-Specific Regulation of Juvenile Social Play by Oxytocin	Ann Marie Scazzero, Remco Bredewold,	
in the Nucleus Accumbens	Alexa H. Veenema	E(22)
Tubes, Coils, Branches: New Developments in the	Sameed Khan, Adam Alessio, Ripla	
Morphology of Uterine Glands	Arora	E(23)
Synthetic Interaction between ATR/MEC1 and DBF4	Leonie Leslie, Layne Weatherford,	
	Joshua Heyza, Steve M. Patrick, George	
	S. Brush	E(24)
Understanding the Transcriptional Co-repressor Activity of	Robert Teis	
dCtBP		W(2)
The lateral hypothalamus feeding signal Melanin	Anvita Suneja, Lauren Raycraft, Alex W.	
Concentrating Hormone influences performance in an	Johnson	
interval timing task in female but not male rats		W(3)
Distinguishing closely related Rhagoletis (Diptera:	Joseph Dziedziula, James Smith	
Tephritidae) species using Sanger sequences of 28S rRNA		
genes		W(4)
DNA Base-Pair-Like Hydrogen Bond Patterns Contribute to	Casey Palmer Borowsky, Leslie Kuhn	
Specificity in Protein-Ligand Complexes		W(5)
Establishing an inducible somatic mutation cell model for	Brendyn Allison, Shahnaz Masani, Kefei	
generating antibody gene diversity	Yu	W(6)
Antigenic Complementarity: Identifying Microbial Triggers	Kaylie Chiles, Miah Turke	
of Type 1 Diabetes Using Protein Homology		W(7)
Searching for Shocks in Novae from Hard X-ray Emission	Alexa Muethel, Elias Aydi, Laura	
	Chomiuk, Ibrahim Shawki	W(8)
Reshaping University Students' Accountability to Physics:	Caleb Rispler, Brean Prefontain, Katie	
Experience in Informal Programs	Hinko	W(9)



2019 Schedule

The Sodium/Potassium Pump: A Computational Model	Paige Bimberg	W(10)
Developing a Framework to Analyze Students' Causal	Rozzie Bloch, Keenan Noyes, Melanie	
Mechanistic Reasoning About Potential Energy	Cooper	W(11)
PFAS's Deadly Branches	Linnea Hartz, Lauren Linenfelser	W(12)
Use of an online simulation to help students understand	Brianna Martinez	
gas behavior		W(13)
Why so Salty? Just be Fresh!	Anna Heath	W(14)
Stream Symptoms: Using Aquatic Insects as Bioindicators	Noah Lubben	
of Stream Health		W(15)
TMS Stimulation to Attentional Brain Networks Selectively	Parker Cuthbert, Andrew Becker	
Modifies Visual Task Performance		W(16)
OMG It's GMO: How Major Affect Students' Perception on	Daniel Ruvio, Philip Longueuil	
GMOs		W(17)
Transforming Self: Perceptions of embodied mixed race	Ashley Nance-Panek	
identity in relationship to Blackness		W(18)
How Does Gender Influence Interdisciplinary Science	Jordan A. Fournier, Kevin Elliott, Kendra	
Teams?	Cheruvelil	W(19)
Predicting adolescent self-harm from parent-adolescent	Paige Girdley, Sabrina Cleis, Alana	
agreement about adolescent moods	Havens, Susan Frank	W(20)
A Voice to be Heard: Understanding the Experiences of	Malcolm Davis, Georgina Montgomery,	
Lesbian, Gay, Bisexual, Transgender, and Queer+ People in	Kendra Cheruvelil, Pratricia Soranno,	
Science, Technology, Engineering, and Mathematics	Isis Settles, Sheila Brassel, Kevin Elliot	W(21)



2019 Schedule

Wednesday April 24th

LB 172L (Saraha) Oral Presentation - C6/C7 - 8-10:50am

Section 4

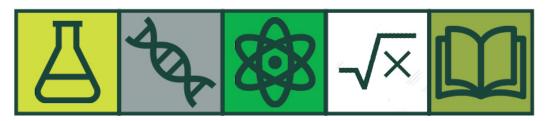
Title	Authors
Manganese Lab Techniques and Real World Applications	Aymen Syeda, Ally Cavataio, Ethan Van Gorder
Digest to Impress	Natalie Barstys, Michael Bennett, Priyam Patel
Pop the Bubbly: How CO2 is Manufactured into	Rachel Dietz, Morgan Fellows, Jacob Stanley,
Carbonated Beverages	Peter Zakaria

Section 5

Title	Authors
	Callie Kennedy, Kostas Mantzios, Riley
Titrations: the use in chemistry and in the real-world	Mitchelson, Hannah Mulheron

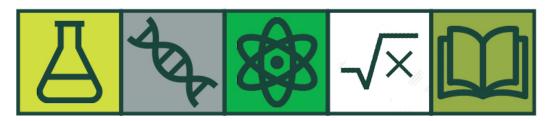
LB 172 (Barnard) Poster session - East/West Lounge - 9:10-10am

Title	Authors	Location
	Kennedy Watson, Taylor Moilanen,	
The Effects of Improperly Disposed Batteries on the	Kennedy Franklin, Desi Vergara, Katie	
Environment	Powell	E(1)
	Adrianna Kirby, Anna Martin, Brenna	
	Tiernan, Natalie Siwula, Catrina	
The Effects of Chemical Warfare in Vietnam	Stephan, Sean Pitcher	E(3)
	Vijval Patel, Sushil Hanumolu, Nidhi	
	Vorakkara, Kaitlyn Converse, Alex	
Silent but Deadly	Kurkechian, Sema Khraishi	E(5)
	Wynneth Huang, Madison Hiestand,	
Ann Arbor's Dioxane Debacle	Lauren Navarre, Anna Mellema	E(7)
	Heather Pitlanish, Casandra Marcola,	
	Andrew Weiss, Erika Henderson,	
The Kids Don't Stand a Chance	Catherine Nicoli	E(9)
	McKenna Patterson, Jack Logan,	
	Keegan Church, Maddy Niblock,	
Oil Spillers are Killers	Merideth Michael	E(11)



2019 Schedule

	Coutam Cutta Cruchti Narkhada Brian	
	Goutam Gutta, Srushti Narkhede, Brian	
Molyanina Mauld Mida Chamisal Duranina	Rago, Maria Rollinger, Matther Vernier,	E(40)
Wolverine World Wide Chemical Dumping	Ryan Wakley	E(13)
	Apoorva Akalankam, Erica Schafer,	
Anoxic Waters	Montana Paton, Areebah Qureshi,	F(45)
Anoxic waters	Sebastian Salcedo, Katherine Heise	E(15)
	Mara Gordon, Avery Gittleman, Emily Stecevic, Lily Whitty, Olivia Bleicher,	
Smoking Out the Chemistry Behind Forest Fires	Srujan Jonnalagadda	C(47)
Urban Heat Islands: Nice "Vacation" Spots or Global	Veronica Azar, Matthew Berg, Gretchen	E(17)
Problems	Stuben, Gia Wahlberg	F(10)
FIODIEIIIS	Salma Alduais, Izzy Bernstein, Courtney	E(19)
Sono is a No No, Sometimes	Merritt, Sam Shuster, Alanah Soriano	E(21)
Solio is a NO NO, Soliietimes	Sinyu Yang, Jeremy Puckett, Annalise	E(21)
Cyanobacteria: "We Are Dying!!"	Cornell	\\\(1)
Cooking Up Trouble: Meth Labs and Their Environmental	Madison Sewick, Joanna Colovas, Zach	W(1)
Effects	Miller, Riley Gugel, Mitchell Alekman	W(3)
Lifetts	Casey Gerlach, Osten Eschedor, Rachel	VV(3)
Keep Your Butt out of my Water: Cigarettes on the	Elliott, Hannah Voytowich, Selena	
Environment	Martinez	W(5)
Liiviioiiiiciit	Mikayla Calverley, Amita Dutt, Nicole	VV(3)
Suicidal shrimp: how increased use of antidepressants is	Ostrander, Samantha Pendrick, Emily	
affecting aquatic life	SeGraves	W(7)
arreating aquationic	Maria Berry, Alexa Jensen, Jack Loring,	VV(1)
The Macro Effect of Microplastics	Angelo Sorce, William Wooley	W(9)
	Aastha Bahl, Ali Ghazi, Chad Burnham,	11(0)
	Daruk Garlapati, Jayant Panuganti,	
Inorganic Shampoo and Soap Pollution	Kathleen Elizabeth Miulli	W(11)
	Mackenzie Bachert, Julia Baker, Justin	()
	Baker, Andreas Comsa, Toinu Rodgers,	
Acid Rain Rain Go Away, Pollute Our Air Another Day	Roman Ruddy	W(13)
	Hanna Mabesa, Joe Hanania, Greg	, ,
Volatile Organic Compounds	Sigler, Max Jani	W(15)
	Linnea Hartz, Natalie Goff, Malena	, ,
Great Pacific Garbage Patch	McKinney, Ciara Pavlinac	W(17)
	Abby Ortwine, Sabrina Malkoun, Anna	
Do you feel oily? 'Cause I do	Heath, Anna Luxhoj	W(19)
	Sophia Ripley, Abbey Fallon, Carolyn	
This Is Where Nemo Went	Stults, Faisal Wajdi, Isabella Said	W(21)
	Carson Gates, Peter Nolan, Catherine	
	Scott, Fateh Hayat, Matthew Wolf,	
Deforestation's Role in the Carbon Cycle	Olivia Lopez	W(23)



2019 Schedule

Independent research presentation

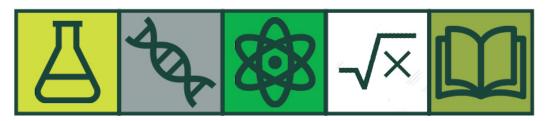
Title	Authors L	ocation
Development of a PCR Assay for Species Diagnostics in the		
Rhagoletis pomonella (Diptera: Tephritidae) Species	Phillip Brzezinski, Wirat	
Group	Pipattanamaitree	W(24)

LB 171 (Cass) Poster session - West Lounge - 10:20-11:10am

Title	Authors	Location
	Jaylynn Jones , Nyah lemons , Sandra	
methamphetamine	Tran, Alicia wills , Sam Raphtis	W(2)
	Thomas Breedlove, Audrey Tacderas,	
	Morganne Narrin, Taylor Collier, Nancy	
Aspartame	Zamora	W(4)
	Jordyn Hughes, Sydney Berg, Zach	
Risk/Benefit Analysis of BPA	Downey, Riley Jeffery, Bareera zubairi	W(6)
	Pooja Peter, Bailey Douglas, Elle	
Effects of Risperidone	Almendras, Adrianna Salah	W(8)
	Andrew White, Bryce Davis, Fletcher	
How Narcan works to stabilize an overdose patient	Robbins, Hanin Sarhan, Cora Schau	W(10)
	McKenzie Barcey, Stephanie Cicci,	
	Garrett Cribb, Kathryn Hurt, Alison	
Adderall	Swanson	W(12)
	Nidhi Gupta, Gabriela Rowe, Emily	
ascorbic acid	Mikulski	W(14)
	Olivia Jeris, Robyn Suarez, Mia	
Scopolamine	Mansfield, Alec Brook, Madi Gallavin	W(16)

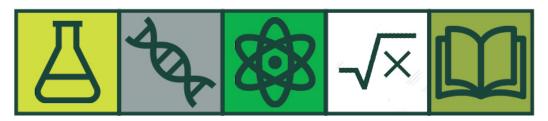
LB172 (Saraha) Poster session – East/West Lounge – 11:30-12:20pm

Title	Authors	Location
	Rachel Hadvina, Matt Zawisa, Abby Deweerd , Rachel London, Kadie	
Line 5: Still Just a Pipeline Dream	Bernstein	E(1)
	Paige Bryant, Josh Barbachyn, Zach	
	Kostelec, Austin Fedewa, McKenna	
City Slickers	Pilley	E(3)



2019 Schedule

	Abby Rochlen, Joi Takenouchi, Aedan	
Too Much of a Good Thing?	Jager, Michael Bennett, Peter Zakaria	E(5)
	Zubeida Abouarkoub, Alex Kirby, Yamini	_(0)
The Impact of Pesticides on Our Environment	Pandey, Jyoti Prasad	E(7)
	Emily Marogi, Brianna Hicks, Antonio	_(,,
the effects on the oceans due to greenhouse gases	Maceri, Nima Forouzannia	E(9)
and an enterior and account that to give an include guides	Aidan Tiernan, Elle Lewandowski,	_(0)
	Courtney Bigelow, Josh Kam, Amanda	
Ozone Depletion: Ozone? More like Oh No!	Greening	E(11)
	Elisa Bills, Maggie Bowler, Megan Ciric,	_(,
The Dangers of Ocean Acidification	Zac Howell, Jaycie Rickert	E(13)
	Sophie Anderson , Kevin Ely , Callie	(.0)
	Kennedy, Ben Kessler, Dana Kilinaki,	
The Harmful Effects of Plastic Pollution in Oceans	Aaron Kruskie	E(15)
	Brielle Miller, Fiorella Sanabria, Lissa	_(:0)
Pollution is not the solution	Pereira, Ria Nikollau	E(17)
	Erika Amicucci, Mary Steusloff, Maya	_(,
Let's Get Salty: How Road Salt Impacts The Environment	Harris, Sam Lopiccolo, Olivia Burton	E(19)
•	Ethan Van Gorder, McKenna Balian,	(- /
Effects of Prescription Medication on Freshwater	Mackenzie Greene, Niveytha	
Ecosystems	Nithiyananthan, Benjamin Robert Fritch	E(21)
·	Ashley Dsouza, Marissa Orzame, Kya	,
Public Health Issue: Lead in Drinking Water	Sparks, Bhavya Kamepalli, Zoe Weil	E(23)
	Sarah Bajema , Stephanie Johnson ,	
	Shelby Fenn, Shenika Plantegenest,	
It's Raining Acid No Hallelujah!	Suraj Desai	E(24)
	Zach Kostelec, Austin Fedewa,	
	McKenna Pilley, Josh Barbachyn, Paige	
City Slickers	Bryant	W(1)
	Dana Simon, Owen Babington, Josh	
Chemical Components of Deforestation	Sherman, Joe Corner, Sam Clifford	W(3)
Deforestation and the Environmental Impact on The Great	Sarah Flowney, Hayley Kuhn, C.J	
Lakes	Whitford, Chloe Smith	W(5)
	Natalie Barstys, Minali Bhatt, Teresa	
Can You BEElieve This?	Girard, Diana Hass, Maja Pietrowicz	W(7)
	Shelby Fenn , Sarah Bajema , Stephanie	
	Johnson, Shenika Plantegenest, Suraj	
Its Raining Acid No Hallelujah!	Desai	W(9)
	Erin McDonough , Kristina Boynton,	
	Elizabeth Perakes, Madeline Dawson,	
The Love Canal	Sandy Chen	W(11)

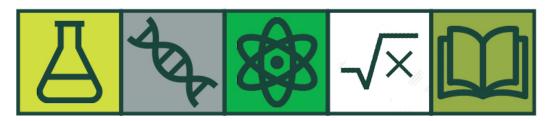


2019 Schedule

	Zubeida Arkoub, Alex Kirby, Yamini	
Pesticides - Harmful or Helpful?	Pandey, Jyoti Prasad	W(13)
	Daniel Ruvio, Philip Longueuil, Ankur	
Desertification Demystified	Bansal, Zohair Khan	W(15)
	Melissa Ortiz, Sydney Szumowicz,	
	Paulina Velasco Flores, Gavin Wink,	
Effective Energy to Radioactive Killer	Madison Pellman	W(17)
	Maya Harris, Erika Amicucci, Mary	
Let's Get Salty	Steulsof, Olivia Burton	W(19)
	Nikki Skinner, Sara Hak, Katelyn	
	Cheeseman, Alexis Armstrong, Lauren	
What's Going on with Natural Resource Depletion?	Truitt	W(21)
	Kadie Bernstein, Rachel London , Matt	
	Zawisa, Rachel Hadvina, Abigayle	
Line 5: Still Just a Pipeline Dream	Deweerd	W(22)
	Hanah Parag, Madeline Shank,	
	Genevieve Ngo, Allie Bonzelet, Annie	
Effects of Waste Disposal	Hillenberg	W(23)
	Simran singh , Sarah Albani, Nicole	
eutrophication	Epshteyn , Raina Awdish , olivia dionisio	W(24)

LB172 (Davis) Poster session - East/West Lounge - 1:50-2:40pm

Title	Authors	Location
The Effect of California Wildfires on the Surrounding	Celeste Dufour, Gabbie Oxie, Rachel	
Environment	Dietz	W(2)
Stop Fueling the Next Mass Extinction	Julie, Elise, Cassandra, Stephen	W(3)
	Delaney Collazo, Allison Mckenzie,	
Smog	Rebecca Martin, Aisha Narayan	W(4)
	Josie Griffith, Renee Harbowy, Nate	
Lead Astray: The Flint Water Crisis	Miller, Vishrudh Vasudevan	W(6)
	Marissa Cortright, Spencer Junod, Louis	
The Dangers of Refrigerators	Kudzma	W(8)
Global Warming- Comparison of CO2 and Temperature	Blake Maddalena, Hamza Ali, Alex	
Levels in different biomes.	Gordon, Evan Benbow	W(10)
	Amber Commet, Kathryn Popoff,	
The Effects of Industrial Runoff	Hannah Berg	W(12)
	Jordyn Bryce , Kathryne Rojeck, Emma	
Enviornmental Homicide Through Pesticides	Bush, Katrina Fajardo	W(14)



2019 Schedule

	Isabella Calus, Lauren Zuzga, Kostas	
Gas Emissions from Agriculture	Mantzios, Hannah Muhleron	W(16)
How man made transportation carbon dioxide pollution	Chloe McCauley, Jacob Young, Josiah	
leads to adverse climate effects	Willis , Ally Cavataio, Cooper Lundh	W(18)
	Colin Benedict, Howard Taylor, Michael	
Chernobyl	Homer	W(20)
	Drew Simoneau, Christian Martin,	
Oil Spill and Impact on Ecosystem	Jordan Bonk, Shannon Wicklund	W(22)
	Nolan Barker, Trevor Fush, Ethan Killips,	

Independent research presentation

Title	Authors	Location
What Is the Chemistry Behind Deforestation?	Catie Scott	W(1)

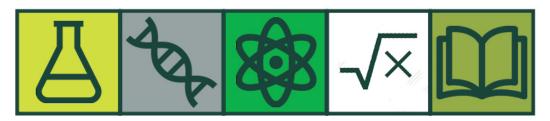
LB 172L (Saraha) Oral Presentation - C6/C7 - 3-5:50pm

Section 9

Title	Authors
Components of Clean Water	Mara Gordon, Madison Hiestand, Lissa Pereira, Toinu Rodgers
The Use of Spectroscopy to Determine Greenhouse Effects of Other Planets	Eliot Haddad, Erika Henderson, JT Mitchell, Apoorva Akalankam
Others Anticipated	

LB 172 (LaDuca) Poster session - East/West Lounge - 3-3:50pm

Title	Authors	Location
	Xander Bailey, Riley Mitchelson, Sarah	
Watch Your Ash	Vander Roest	E(1)
	Sam Flower, Morgan Fellows, Kiele	
The Effect of Factory Pollution on the Great Lake Region	Williams, Hailey Bond	E(3)
	Maya Skolnik, Ben Uzorka , Wiley	
The Gnarly Nitrogen Cycle	Fraser, Neha Iska	E(5)
Harmful Algal Blooms In The Great Lakes	Laina Young, Erin Bosman	E(7)
	Melissa Schamanek, Makinni Kornak-	
Say H2(N)O to PFAS in Water	Kotarba, Joree Kidd, Alexa Cohen	E(9)

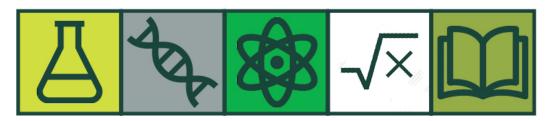


2019 Schedule

	Genevieve Nantais, Jared Pazner, Tyler	
Effects of Mercury on Wildlife in the Great Lakes	Lim, Elliot Majlessi	E(11)
	Megan Deming, Paige Gkekas, Katelyn	
Is your fertilizer harming the environment?	Whitlach	E(13)
	Madison Stephens, Ashley Atkinson,	
Effects of birth control on marine life	Rachel White, Drake Cox	E(15)
	Jason Kazmierczak, Ethan Ross, Aymen	
The Environmental Impact of Batteries	Syeda, Caroline Urbanic	E(17)
	Megan Nicol, brooklynn Murray,	
Phosphate Fertilizer Runoff and its Effects on Aquatic Life	Phoebe Smith	E(19)

Independent research presentation

Title	Authors Lo	ocation
Iron-oxide Nanoparticles Used for the Detection and		
Treatment of Cardiovascular Disease	Ashley Hulet	E(20)



2019 Schedule

Thursday April 25th

LB 172L (Barnard) Oral Presentation - C6/C7 - 8-10:50am

Section 11

Title

Impact of CO2

Xander, Greg, Joe, Linnea

Malena McKinney, Kathryn Popoff, Kiele

Williams, Sara Kane

Mia Kochanek, Emily Mabry, Olivia Burton, Alex

Water Quality in Flint, MI

Kirby

Carlie Couzens, Jason Kazmierczak, Evan Ziehl,

Aedan Jager

Maria Katrina, Nidhi Akila, Alexander Geoffrey

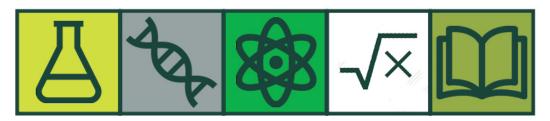
Section 21

Tracking the Concentration of Manganese

Title Authors Anna Mellema, Mackenzie Greene, Catrina "Green" Companies Stephan, Erika Amicucci Brianna Hicks, Emily Stecevic, Erin Maltbie, Alexa **Glowsticks and Thermodynamics** Cohen Maria Rollinger, Camryn Mallery, Tyler Lim, Alex **Silent but Deadly** Kurkechian **Trading Diesel for Green Fuel** Lauren Truitt, Sam Carter, Maya Harris Maria Rollinger, Tyler Lim, Camryn Mallery, Alex The Formation of Gallstones Kurkechian

LB 172L (Cass) Oral Presentation - C6/C7 - 11:30am-2:20pm

Title	Authors
	Caroline Urbanic, Richa Javar, Bhavya Kamepalli,
CO2	Allie Bonzelet
	Joshua Sherman, Keaton Zehr, Emily John,
Kidney Stone Symposium Presentation	Nathalie Nordan



2019 Schedule

	Aaron Kruskie, Hannah Berg, Rebecca Martin, Zac
Kidney Stones	Howell
	Meghan Irving, Manasi Desai, Eden La Clair,
Mechanisms	Courtney Merritt
	Gabrielle Gaskin, Trevor Fush, Kathleen Miulli,
Fun With Kinetics	Philip Longueuil

Section 22

Title Authors

	Celeste Dufour, Yazan Al-Sanouri, Cj Whitford,
The Potential of Biodiesel as a Primary Fuel Source	Madi Pellman
	Rachel Hadvina, Selena Martinez, Elisa Bills,
LB172L Buffer Lab	Zohair Khan
	Salsabil Lamiha, Desi Vergara, Keeli Kornak-
Water Quality (creativity of title is subject to change)	Kotarba, naraya46@msu.edu
Effectiveness of Apple Cider Vinegar with Treating Calcium	
Oxalate Kidney Stones	Griffin, Jacob, Brooklynn
	Rachel Hadvina, Selena Martinez, Elisa Bills,
LB172L CO2 Lab	Zohair Khan
	Ali Rida, Ankur Bansal, Owen Babington, Ethan
CFCs: How They Impact Our Atmosphere	Ross

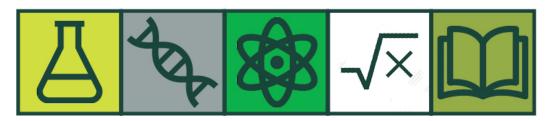
LB 172L (Cass) Oral Presentation - C6/C7 - 3-5:50pm

Section 13

Title	Authors
The Impact of Ocean Acidification on the Great Barrier	Goutam Gutta, Simer Singh, Kya Sparks, Hannah
Reef	Voytowich
Others Anticipated	

LB 172L (Adams) Oral Presentation - C6/C7 - 7-9:50pm

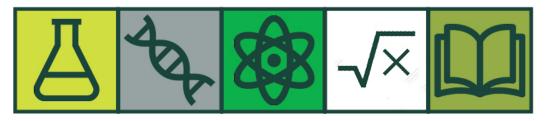
Title	Authors
	Sara Thompson, Madeline Dawson, Brandon
Water Quality	Hartman



2019 Schedule

	Emily Jevarjian, Erin McDonough, Kennedy
Kinetics	Franklin, Kevin Ely
	Genevieve Ngo, Kyleigh Meyers-vandouser,
Glow Stick Lab	Christian Martin, Matthew Hunter
Applications of CO2	Catie Scott, Nishi Patel, Anna Kalil, Natalie George

Title	Authors
Mechanisms Of The Kreb's Cycle	Megan Nicol , Colin Benedict, Jyoti Prasad, Sophie Lamphier
	Salma Alduais, Jared Pazner, Matt Vernier, Ben
The Effectiveness of Water Testing Methods	Fritch
	John Logan, Chad Burnham, Sabrina Malkoun,
The Chemistry of Biodiesel	Joree Kidd
	Thejesh Kalatturu, Meghana Odapally , Andreas
Star Spectroscopy	Comsa, Hanna Mabesa
	Abigail Fallon, Jared Fallon, Nicole Ostrander, Ella
Bioluminescents	Spicketts



2019 Schedule

Friday April 26th

LB 172L (Saraha) Oral Presentation - C6/C7 - 8-10:50am

Section 8

Title	Authors
A New Look at the soap and Biodiesel Lab	Amber Commet, Angela Angelucci, Sarah Flowney
	McKenna Dooley, Dev Mookerjee, Elizabeth
How CO2 and Henry's Law Affect Marine Life	Perakes
	Ashley Atkinson, Jake Haver, Delaney Collazo, Ben
Biological Interactions with Kidney Stones	Uzorka

Section 17

Title	Authors
Effects of Impure Water on the Body (Water Quality)	Mary Steusloff, JackSkyta, Robert Teis, Drake Cox
Applications of buffers	Joseph Burke, Blake Maddalena, Gretel Keller
Kidney Stones Application	Megan Deming, Hamza Ali, Joshua Barbachyn

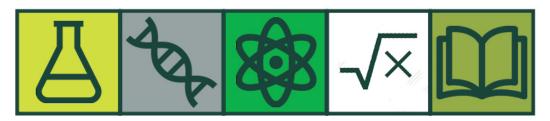
LB 172L (Adams) Oral Presentation - C6/C7 - 11:30am-2:20pm

Section 2

Title	Authors
	Alaina Rubenacker O'Dell, Max Jani, Joseph
Lit Roads (Road Safety)	Henein, Srujan Jonnalagadda
Others Anticipated	

Title	Authors

Reusable CO2 Technology	Sarah Vander Roest, Paige Gkekas, Jeremy Puckett
Buffers	Mahmoud Ajine, Casey Gerlach, Katelyn Whitlatch, William Wooley
Kidney Stones	Ashley Caughell, Jack Loring , Katherine Heise, Wiley Fraser
The Magic of Mechanisms	Heather Pitlanish, Alaina Young, Nash Gregory



2019 Schedule

	Kaitlyn Converse, Kennedy Watson, Sinyu Yang,
How Diets Affect Kidney Stones	Natalie Goff