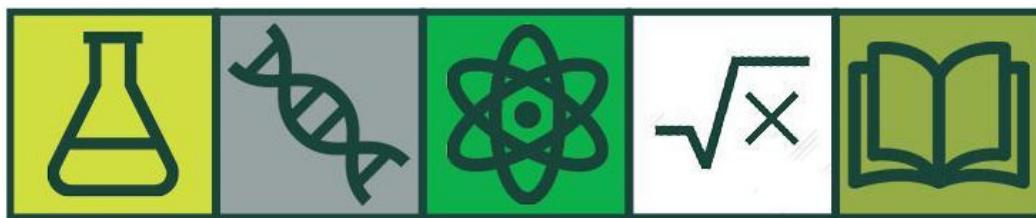


## **Lyman Briggs College Annual Research Symposium**



## **2023 Schedule**

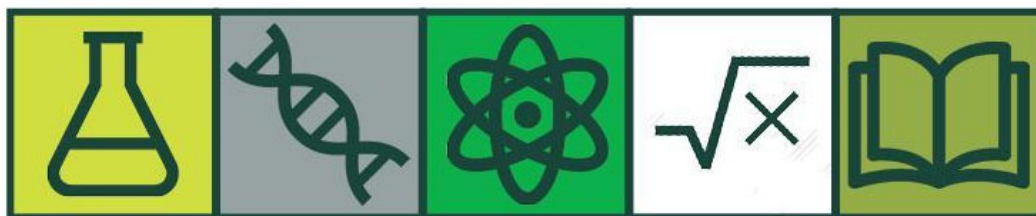
**April 24-28**



## Lyman Briggs College Annual Research Symposium 2023 Schedule

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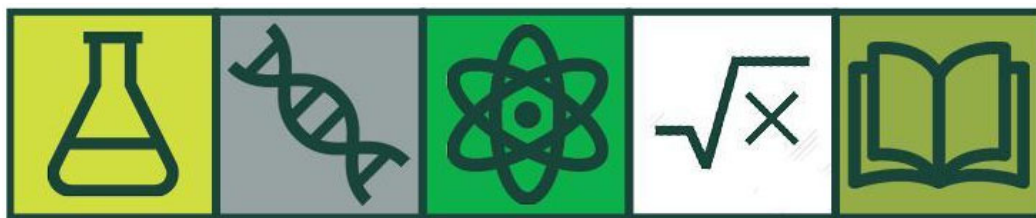
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Virtual Presentations	6
Monday Apr 24	7
MSUFCU Poster Session (Monday, Apr 24 <sup>th</sup> 6-8:30pm)	8-10
Tuesday Apr 25	11
Wednesday Apr 26	13
Thursday Apr 27	17
Friday Apr 28	23



**Lyman Briggs College Annual Research Symposium  
2023 Schedule**

**Full schedule of participating classes and times**

LB 171	Apr 27, varying times
LB 172	Apr 26 and 27, varying times
LB 172L	Apr 25 through April 28, varying times
LB 325B	Apr 24 3:00pm
LB 348	Apr 26 1:50pm, Apr 27 9:10am
LB 492	Apr 25, 27 10:20-12:10pm



## Lyman Briggs College Annual Research Symposium 2023 Schedule

### Full Schedule of Sessions

#### Wednesday April 19<sup>th</sup>

Virtual presentations available at <https://lymanbriggsstudentshowcase.hcommons.org/>

#### Monday April 24<sup>th</sup>

Oral Presentations

LB 325B	Louson	3:00pm	C101 Holmes
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#### MSUFCU Poster Session – East and West Holmes Hall

6:00-8:30pm

6-8:15pm – Poster presentations and judging

8:25pm - Awards announcements – East Lounge



#### Tuesday April 26<sup>th</sup>

Oral Presentations

LB 492	Degraw	10:20-12:10pm	W40 Holmes
LB 172L	Barnard	3:00 – 5:50pm	C6/C7 Holmes
LB 172L	Saraha	6:00 – 9:00pm	C6/C7 Holmes

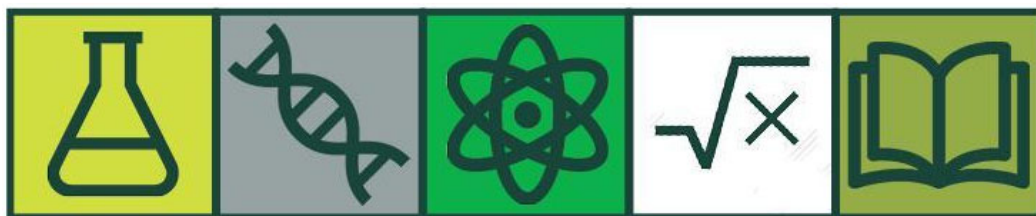
#### Wednesday April 27<sup>th</sup>

Oral Presentations

LB 172L	Sewell Davis	8:00 – 10:50am	C6/C7 Holmes
LB 172L	Sewell Davis	11:30 – 2:00pm	C6/C7 Holmes
LB 172L	Saraha	3:00 – 5:50pm	C6/C7 Holmes
LB 172L	Saraha	6:10 – 9:00pm	C6/C7 Holmes

Poster session –West Holmes Lounge

LB 172	Stoltzfus	8:00am
LB 172	Stoltzfus	9:10am
LB 172	Stoltzfus	10:20am



## Lyman Briggs College Annual Research Symposium 2023 Schedule

LB 172	Barnard	11:30am
LB 172	Stoltzfus	12:40pm
LB 172	Barnard	1:50pm
LB 348	Doherty	1:50pm
LB 172	Barnard	3:00pm
LB 172	Barnard	4:10pm

### Thursday April 28<sup>th</sup>

#### Oral Presentations

LB 172L	Sewell Davis	8:00 – 10:50am	C6/C7 Holmes
LB 492	Degraw	10:20-12:10pm	W40 Holmes
LB 172L	Sewell Davis	11:30 – 2:20pm	C6/C7 Holmes
LB 172L	Dzurka	3:00 – 5:50pm	C6/C7 Holmes
LB 172L	Dzurka	6:10 – 9:00pm	C6 Holmes

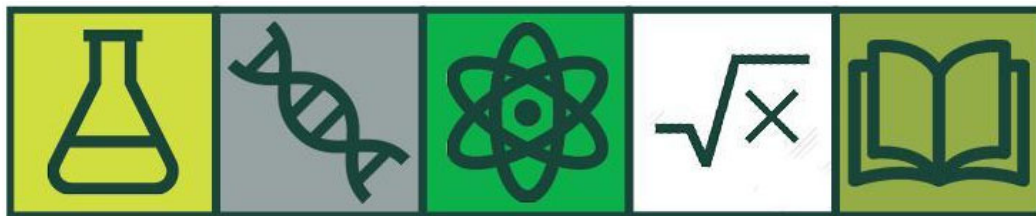
#### Poster session –West Holmes Lounge

LB 172	Stoltzfus	8:00am
LB 172	Stoltzfus	9:10am
LB 348	Doherty	9:10am
LB 171	Cass/Dzurka	10:20am
LB 172	Stoltzfus	10:20am
LB 171	Cass/Dzurka	11:30am
LB 172	Cass	11:30am
LB 171	Cass/Dzurka	12:40pm
LB 172	Stoltzfus	12:40pm
LB 172	Cass	1:50pm
LB 172	Cass	3:00pm
LB 172	Cass	4:10pm
LB 172	Cass	5:20pm
LB 172	Cass	6:30pm

### Friday April 29<sup>th</sup>

#### Oral Presentations

LB 172L	Stoltzfus	8:00 – 10:50am	C6/C7 Holmes
LB 172L	Barnard	11:30 - 2:20pm	C6/C7



## Lyman Briggs College Annual Research Symposium 2023 Schedule

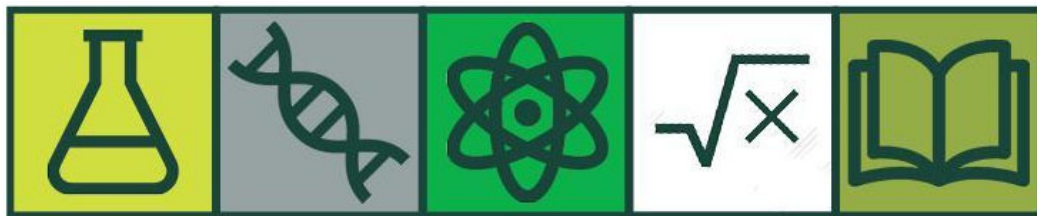
### Virtual Presentations – Available starting April 19<sup>th</sup>

**Presentations can be found at**

**<https://lymanbriggsstudentshowcase.hcommons.org/>**

Titles are linked to the posting for each.

Title	Authors
<a href="#"><u>Effects of Health Care Workers' Participation in Equine Assisted Activities on Their Attitude Towards Horses and Future Participation in Horse Activities</u></a>	Alexandria Mast, Christine Skelly, Karen Waite, Gwyn Shelle, Paula Hitzler, Thomas Guthrie
<b>Social Aspects of Medicine Semester Long Paper: Exploring how one's Citizenship Status Affects one's Access to Healthcare in the U.S. [No presentation submitted]</b>	Sara Xhaja
<a href="#"><u>University students' attitude towards horses improved with participation in an equine activity</u></a>	Haley Preston, Dr. Karen Waite, Paula Hitzler, Tom Guthrie, Gwynn Shelle, Dr. Christine Skelly

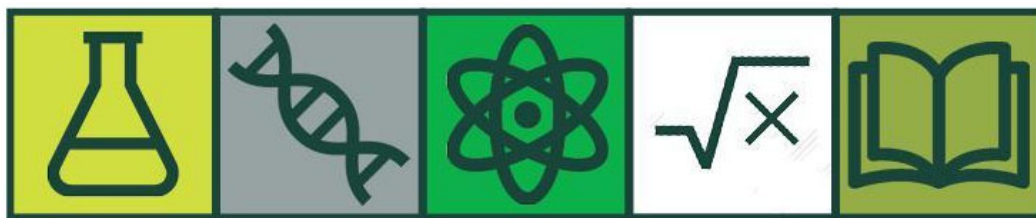


**Lyman Briggs College Annual Research Symposium  
2023 Schedule**

**Monday April 24<sup>th</sup>**

**LB 325B (Louson) Oral Presentation – C101 – 3:00pm**

Title	Authors
Ethnography of Heritage Park in Canton, MI	Aya Abu-Zama
Photographs of La Jolla	Kaushik S Paladugu



## Lyman Briggs College Annual Research Symposium 2023 Schedule

### MSUFCU Poster Session – East and West Holmes Hall – 6-8:30PM Monday Apr 24, 2022

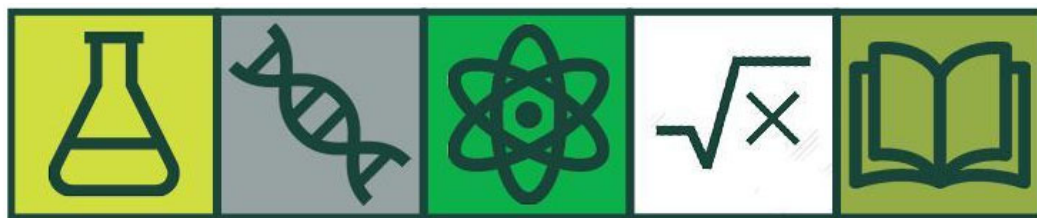
Presentation and Judging 6-8:15 pm



Awards announced at 8:25(ish) in East Lounge

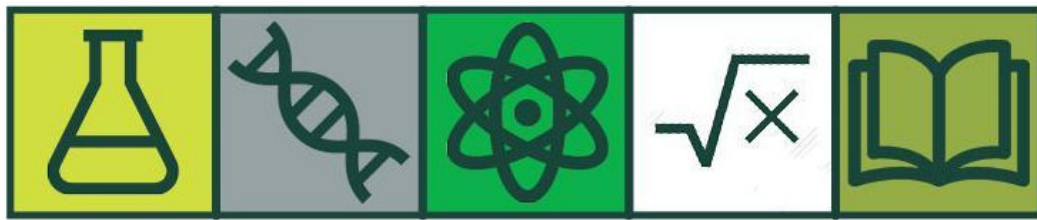
Title	Authors	Location
Using Gap Junction Intercellular Communication to determine the effects of PFAS compounds	Jamie Liebold, Brad Upham	E(1)
Mouse Estrous Acyclicity in Response to Shift Work-Like Lighting	Kierra Jursch	E(2)
Saccade Vigor in Schizophrenia	Zeeba Ali	E(3)
Characterizing the Immune Response upon Benzene Exposure during Pregnancy	Laura Stephan, Anthony Maxwell	E(4)
Disrupting cocaine-seeking by devaluing memories of cocaine reward through mesolimbic circuitry	Victoria Fex	E(5)
Functional Characterization of c-Kit and RARα Oncogenes in MMTV-myc Model	Caroline Downes, Carson Broeker, Mylena Ortiz, Eran Andrechek Ph.D.	E(6)
Plastic Be-gone! A Genetic Analysis of Polyethylene Degradation in the Lake Lansing Microbiome	Sarah Davis, Matthew A. Gagea, Branch Nietling, Myles Stephens, Katelyn Silva, Jennifer Kirk	E(7)
EEGs as a tool to indicate driving fatigue	Rhea Raut, Linda Komis, Madison Myers	E(8)
Time-dependent relapse in adolescent vs adult cocaine-exposed rats: role of dorsal hippocampal neuroplasticity	Shambhvi Ojha, Luciano Voutour, Amy A Arguello	E(9)
he Role of the Aryl Hydrocarbon Receptor Polymorphisms in Modulating 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)-induced HMGCR expression	Zach D'Haem	E(10)
Intrinsic Differences Between Central and Peripheral Nervous System Neurite Outgrowth	Ania Grodsky, Jenny Dibley, Ashley Ziemer, Malhar Amin, Philip Lamoureux and Bradley Hammond, Kyle Miller	E(11)
Impact of per- and polyfluoroalkyl substances on the infant gut microbiome	Megha Pratapwar	E(12)
Effects of Rai-1 Gene Deletion on Sleep and Circadian Rhythm in Diurnal Rodents	Nolan Lucera	E(13)
Niche Partitioning in Bocas del Toro, Panama between Dendrobates auratus and Oophaga pumilio	Lilja Plumert, Mikayla Sague, J.P. Lawrence	E(14)





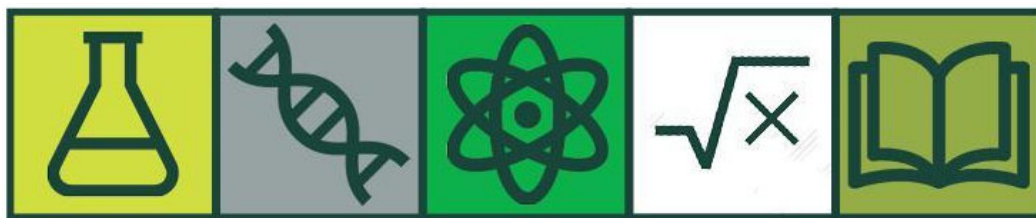
## Lyman Briggs College Annual Research Symposium 2023 Schedule

<b>The Relationship of Prenatal and Postpartum Depression with Gastrointestinal and Vaginal Microbial Diversity and Composition</b>	Nikita Nel, Sarah Comstock	E(15)
<b>Environmental temperature alters the host range of a virulent bacterial pathogen</b>	Anne Lemek	E(16)
<b>Quantifying the Extent of Individual Variation in Infected <i>Daphnia magna</i></b>	Alexis Litts, Ashwini Ramesh, Nina Wale	E(17)
<b>vc0512-15 operon in VSP-2 island of <i>Vibrio cholerae</i> is involved in motility and biofilm formation through cyclic di-GMP regulation</b>	Marissa K. Malleck, Aathmaja Anandhi Rangarajan, Christopher M. Waters	E(18)
<b>Quantitative Identification of Nonpolar Perfluoroalkyl Substances by Mass Spectrometry</b>	Jacob Stamm, Lindsey DeJesus, A. Daniel Jones, Marcos Dantus	E(19)
<b>Reverse Osmosis in Dialysis</b>	Emilia Di Nardo, Klaire Schott, Nolan Lucera, Niyati Patel	E(20)
<b>Impacts of gut microbiota on child development: a description of the study population</b>	Anushree Ravi	E(21)
<b>Gene editing in CRISPR-Cas9 expressing transgenic tobacco reveals high frequencies of chimeric editing</b>	Grace Urban, Guo-Qing Song	E(22)
<b>Assessing the Gaps in Arctic Marine Mammal Datasets and Organizing Data for Usability</b>	Natalia Portales	E(23)
<b>Evaluating Echo-Intensity of the Femoral Subchondral Bone in Patients Following Anterior Cruciate Ligament Reconstruction</b>	Saif Juma	E(24)
<b>Trans and Gender Diverse Students' Navigation of Medical School and Residency</b>	Frank Dolecki Jr., Greg Mitchell, Dr. Andrea Kelley	W(1)
<b>The Impact of Social Media on Adolescents</b>	Hannah Hua	W(2)
<b>What it Takes: Learning From the Experiences of Women in Academic Leadership</b>	Paige Alexander	W(3)
<b>Using Creativity to Document Experiences in Medicine</b>	Neha Navathe, Marine Avequin, Jacob Okulewicz, Tushya Mehta, Grace Bonnema	W(4)
<b>Factors Impacting Perceptions and Stigma Surrounding Menstruation: Michigan State University Perspective</b>	Harsna Chahal, Nupur Huria	W(5)
<b>Does faculty Professional Development Stick? Understanding the impact of the STEM Fellows Program on Summative Assessments</b>	Emily Zimmer, Roy Dibakar, Iqbal Hossain, Ryan Sweeder, Deborah Herrington	W(6)
<b>Assessing A Critical Making Pedagogy</b>	Marieke Anderson	W(7)
<b>How Do Students Reason About Ca<sup>2+</sup> During Muscle Contraction</b>	Samantha Tadian, Tushya Mehta, Kyli Denny, Isaac Gollapalli	W(8)
<b>The Role of Learning Objectives in Student Learning Outcomes in a Large Enrollment Course</b>	Bailey Bowcutt, Phillip Delekta	W(9)



## Lyman Briggs College Annual Research Symposium 2023 Schedule

<b>Education Videos: How Can Students Search Smarter?</b>	Leah Zajac, Ryan Sweeder, Deborah Herrington	W(10)
<b>Generations of Diophantine Triples and Quadruples</b>	Meyhar Dudeja, Curtis Chou, Amiri Walker, Dr. Aklilu Zeleke	W(11)
<b>Generalized Golden Numbers</b>	Amiri Walker, Meyhar Dudeja, Curtis Chou	W(12)
<b>Tchoukaillon</b>	Linda Komis	W(13)
<b>The development of art through mathematical discoveries during the Renaissance</b>	Abigail Lippert, Richard Edwards	W(14)
<b>Psychedelics for Neuropsychiatric Disorders</b>	Tasnim Ahmed	W(15)
		W(16)
<b>The Change Of A Narrative Plot Based On Acoustic Cues</b>	Paige Seidell, Marine Avequin, Jacob Okulewicz	W(17)
<b>Narrative Processing of Music</b>	Tushya Mehta, Grace Bonnema, Quynh Tong, Neha Navathe	W(18)
<b>One-year Follow-up Of Children Screening for Behavioral Health Symptoms During a 2020 Pediatric Well-child Visit: Does Functional Impairment Predict Poorer Outcomes</b>	Harsna Chahal, Sanjanasri Pothuraju, Hady Omar, Rana Omar	W(19)
<b>Relationship Between Parenting Styles and BMI in Low Income Families</b>	Allison Doneth	W(20)
<b>Life Satisfaction and the Neighborhood: The Role of Informal Social Control and Fear of Crime</b>	Naim Mashni, Alexis Mashni, Atef Choudhury, Hibah Siddiqui	W(21)



**Lyman Briggs College Annual Research Symposium  
2023 Schedule**

**Tuesday April 25<sup>th</sup>**

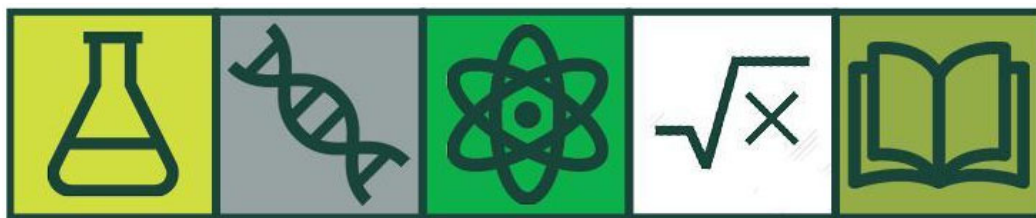
**LB 492 (Degraw) Oral Presentation – W40 – 10:20am-12:10pm**

Title	Authors
Using Artificial Intelligence to Perform Surgical Procedures	Brian Hosmer, Alexandra Lewis, Alex Jutila

**LB 172L (Barnard) Oral Presentation – C6/C7 – 3:00-5:50pm**

Section 1&14

Title	Authors
Carbonic Acid and the Buffer System	Elise Yoder, Emily Saksewski, Pranavi Pullela, Ayushi Shroff
Relationship between Gas Pressure & Porous and Solid Materials	Erica Morrissey, Aarushi Lokhande, Neha Singh
Fire Safety in and Out of The Lab	Katelyn Stark, Jacqueline Sarafa, Gavin Betz, Lana Kouatli
Accuracy and Precision	Karthick Prem Satheesh Kumar, Sanjana Pingili, Isabel Stoller, Lorenzo Thrasher
Modern Application of Limiting Reactants	Gen Tatro, Rebecca Chynoweth, Fauzan Qureshi
In what ways could Biodiesel be a viable alternative to traditional drilling fluid?	Madison Cooper, Giulianna Ruffino, Ryan Galdikas, Lucas Badiner
Safety in the Lab: Explosive Materials	Rania Rafiq, Siersha Miller, Kathryn Horvath, Helen Craig
Limiting Reactants: The Production of Pure Titanium	Heli Sheth, Emily Willerick, Kyla Rodas, Drew Johnson
The “Chemis-tree” Behind Deforestation	Emma Anzivino, Samantha Nemer, Tyler Irving, Ari Markov

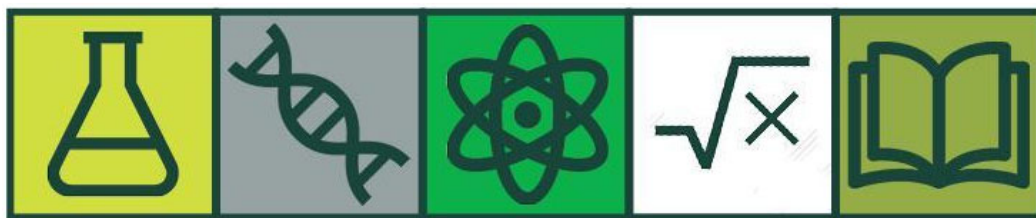


## Lyman Briggs College Annual Research Symposium 2023 Schedule

### LB 172L (Saraha) Oral Presentation – C6/C7 – 6:10-9:00pm

Section 2&15

Title	Authors
Accuracy and Precision	Maya Surendran, Zach Saad, Rahul Vallurupalli
Titration	Julia Burgess, Helen Bojarczyk, Meghana Atmakur, Mohab Gouda
How Varying Soap Structures and Functional Groups Influence Soap Cleaning Properties	Benjamin Baessler, Bethany Nolte, Sasha Fox, Alexandra Brown
Safety in the Lab	Will Adams, Anna Daugherty, Marshall Delgado, Francheska Iliev
Titration	Mohab Gouda, Julia Burgess, Meghana Atmakur, Elle Bojarczyk
Baby You're A Firework	Emily Schneider, Ava Buchanan, Sadie Hayman, Michael Benivegna
Climate Change - Acid Rain	Brooke Carnahan, Allison Fergin, Greta Kaminske, Lisa Stuckman
Fueling the Future: A Comparative Analysis of Biodiesel Efficiency and Sustainability	Rachel Howery, Andrew Crail, Neal Sanghvi, Nate Deppen
The Limits Pain Killers	Ava LaMotte, Khushi Acharya, Hanna Stewart, Bryan Bemrich
Protecting Our Reefs	Brittney Uhlmeier, Colette Periard, Ashor Rairigh
Accuracy and Precision in Basketball	Ava Kirchinger, Sneha Mashalkar, Rebecca Wells, Charlie Herz



**Lyman Briggs College Annual Research Symposium  
2023 Schedule**

**Wednesday April 27<sup>th</sup>**

**LB 172L (Sewell Davis) Oral Presentation – C6/C7 – 8:00-10:50am**

Section 3 & 16

Title	Authors
CO2 Emissions: Electric Powered vs. Gas Fueled Vehicles	Olivia Sinacola, Savannah Frendo, Nicholas Thibodeau, Manvir Grewal
Caught Red Handed: The Application of Buffers in Gel Electrophoresis	Alexandria Carswell, Nicholas Feys, Hari Kadakol, Deeya Patel
Accuracy and Precision with Blood Glucose	Anvita Kakumanu, Jazzmyne Ortiz, Mahim Rahman, Andrew Kraemer
Chemical Kinetics and Fuel Combustion	Benjamin Mathews, Adel Obeid, Ayden Pearson
The Importance of Buffers in Baby Lotion	Kathryn Bucci, Amirah Bashi, Elizabeth McDonald

**LB 172 (Stoltzfus) Poster session – West Lounge – 8:00-8:50am**

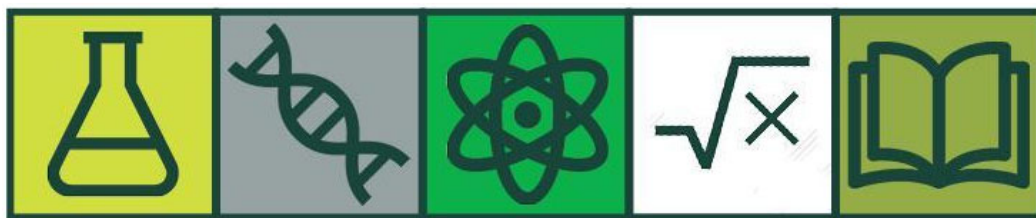
Title	Authors	Location
Posters TBD		W(1)
		W(2)

**LB 172 (Stoltzfus) Poster session – West Lounge – 9:10-10:00am**

Title	Authors	Location
Posters TBD		W(1)
		W(2)

**LB 172 (Stoltzfus) Poster session – West Lounge – 10:20-11:10am**

Title	Authors	Location
Posters TBD		W(1)
		W(2)



## Lyman Briggs College Annual Research Symposium 2023 Schedule

### **LB 172L (Sewell Davis) Oral Presentation – C6/C7 – 11:30-2:00pm**

Section 4 & 17

Title	Authors
Solubility of Calcium Carbonate	Sophia Herbst, Aarit Mitra, Stephanie Barroso
Buffers in Skin Care Products	Hannah Meltser, Beth Brazelton, Carter Quinn, Robert Tuck
The detriments coral bleaching	Thomas McCarthy, Effie Hodges, Wyatt Guernsey
Pharmacological Effects of Salt Formation	Brooke Lattner, Aiden Phillips, Max Wakefield

### **LB 172 (Barnard) Poster session – West Lounge – 11:30am-12:20pm**

Title	Authors	Location
A Sea of Trouble: The Devastating Impact of Hydrocarbons on Marine Life	Joshua Geller, Aidan Kochanowski, Michael Crane, George Bakker, Daniel Gladki	W(1)
		W(2)
Additional posters TBD		W(3)

### **LB 172 (Stoltzfus) Poster session – West Lounge – 12:40-1:30pm**

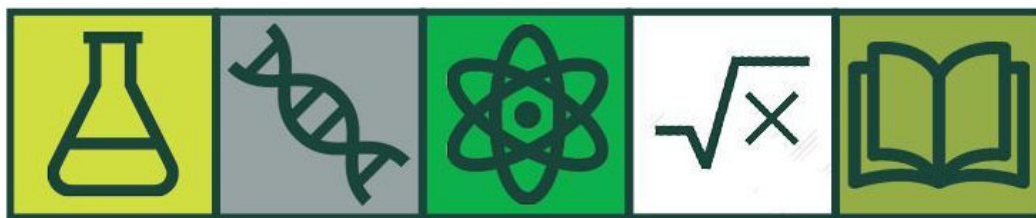
Title	Authors	Location
Posters TBD		W(1)
		W(2)

### **LB 172 (Barnard) Poster session – West Lounge – 1:50-2:40pm**

Title	Authors	Location
Posters TBD		W(1)
		W(2)

### **LB 348 (Doherty) Poster session – West Lounge – 1:50-2:40pm**

Title	Authors	Location
Diffusion Reasoning Consistency Among Undergraduate Students	Zachary Kam, Jasmine Parker, Maya Shah, Joey Vieregge	W(11)



## Lyman Briggs College Annual Research Symposium 2023 Schedule

### LB 172L (Saraha) Oral Presentation – C6/C7 – 3:00-5:50pm

Section 5 & 18

Title	Authors
Purification of Hard Water	Kylie Cox, Alekya Vudathu, Ellie Richards, Lydia Mathews
Buffers in Blood and its importance	Kaveri Nambiar, Michael Hamilton, Emma Dziewit, Ananya Ramanan
Applying rate mechanisms to photosynthesis.	Emily Anderson, Alexandria Terry, Sanjana Vadrevu, Ana Ivanov
Detergent Chemistry	Rachel DeSantis, Emma Caldwell, Duncan Borland, Kayli Nguyen
Blood: The Buffest Buffer	Matthew Gagea, Olivia Salas, Ananyaa Asthana, Tryee Coleman
The Impacts of Limiting Reagents in Photosynthesis	Ayush Ippalapelli, Aamir Hasan, Chloe Ricker, Avery Boyk
Gas Solubility and Hyperbaric Oxygen Therapy	Jacquelyn Good, Aydan McIntyre, Minji Nam

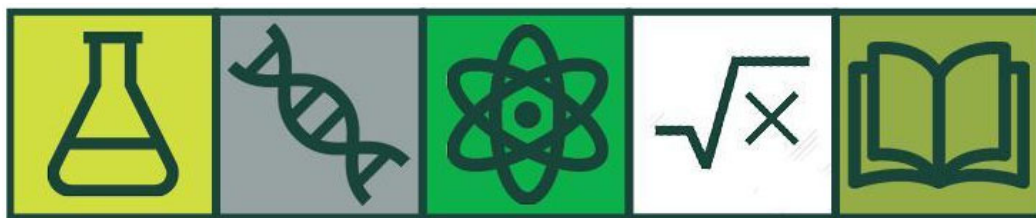
### LB 172 (Barnard) Poster session – West Lounge – 3:00-3:50pm

Title	Authors	Location
Acid Rain and it's Environmental Impacts	Jiya Purakary, Sunidhi Shintre, Jordan Reece, Jenu Shrestha, Genevieve Tatro	W(1)
		W(2)
Additional posters TBD		W(3)

### LB 172 (Barnard) Poster session – West Lounge – 4:10-5:00pm

Title	Authors	Location
Posters TBD		W(1)





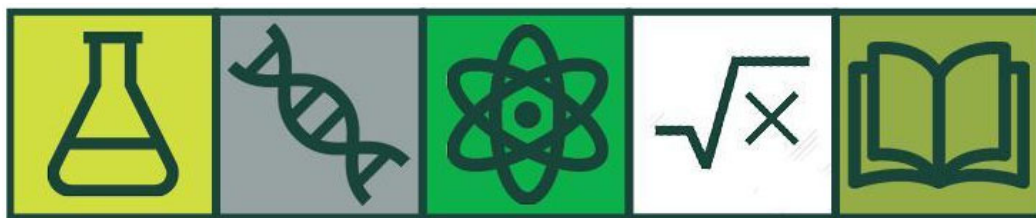
## Lyman Briggs College Annual Research Symposium 2023 Schedule

### LB 172L (Saraha) Oral Presentation – C6/C7 – 6:10-9:00pm

Section 6 & 19

Title	Authors
How titration is used in pregnancy tests	Taylor Scramlin, Marguerite Smith, Rain Woodard, Adam Stearns
Coal Power Plant Combustion Kinetics	Ali Hayat, Tavleen Kaur, Bella Busch, Jesse Sandhu
What Causes Acid Rain?	Marlo Lulgjuraj, Sasha Johnson, Lourdes Merem, Lily Karmo
Safety- Fire Extinguisher	Luca Bono, Emma Hacke, Tiffany Smith, Noa Ofstroff
Buffers in soaps/lotions	Affan Ahmed, Kalam Patel, Wesley Near, Jim Bohl
The Use of Titrations in Pharmaceuticals	Faith Persyn, Tahia Binta Salim, Anika Kulkarni, Allison Miller
The Impact of Sugar Structure	Stuart Tucker, Kasey Conklin, Allyson Duong, Marieke Anderson
Buffers: Helicobacter pylori	Zara Ahmed, Meadow Link, Julia Walton, Elyssa Haddad
Thermodynamics - Refrigeration	Grant Bunch, Julia DiMeglio, Karrigan Lacross





## Lyman Briggs College Annual Research Symposium 2023 Schedule

### Thursday April 28<sup>th</sup>

#### **LB 172L (Sewell Davis) Oral Presentation – C6/C7 – 8:00-10:50am**

Section 7 & 20

Title	Authors
The Impacts of Precision v Accuracy on Dosing Medication for Healthcare Patients	Rami Barawi, Shivani Anandhasenthil, Hunter Battisfore, Camryn Sparschu
Buffers in Cosmetic Products	Joslyn Wang, Alaina Liddell, Ilcen Turan, Helen Spence
Process of desalination though reverse osmosis	Jiya Purakary, Matthew Yemmans, Grace Sype, Parker Thiel
Using Spectroscopy in Pharmaceutical Analysis	Sophie Bonnema, Katie Hurbanis, Sofie Cannon, Sean Kalabat
IV Bags	Hannah L Riffel, Charlotte Batra, LaMonica Reeves, Mary Cottone
Solving for the Unknown: "Investigating Triations and its use in the Culinary World."	Cameron Behnke, Abhijit Allu, Shelby Hudson

#### **LB 172 (Stoltzfus) Poster session – West Lounge – 8:00-8:50am**

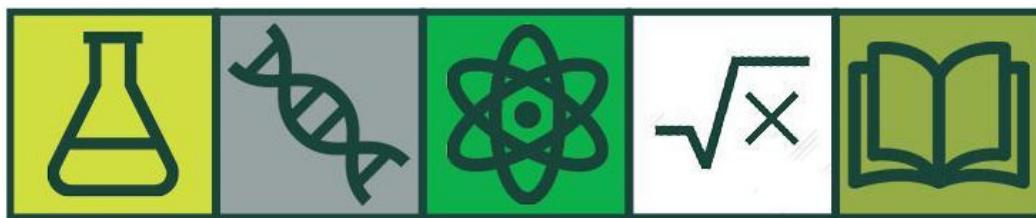
Title	Authors	Location
Posters TBD		W(1)
		W(2)

#### **LB 172 (Stoltzfus) Poster session – West Lounge – 9:10-10:00am**

Title	Authors	Location
Posters TBD		W(1)
		W(3)

#### **LB 348 (Doherty) Poster session – West Lounge – 9:10-10:00am**

Title	Authors	Location
Say What!?: How group engagement impacts level of reasoning in response to complex questions	Kate Wiacek, Margaret Stosio, Michael Demercurio, Travis Yang	W(11)



## Lyman Briggs College Annual Research Symposium 2023 Schedule

### **LB 171 (Cass/Dzurka) Poster session – West Lounge – 10:20-11:10am**

Title	Authors	Location
Posters TBD		W(11)
		W(12)

### **LB 172 (Stoltzfus) Poster session – West Lounge – 10:20-11:10am**

Title	Authors	Location
Posters TBD		W(1)
		W(3)

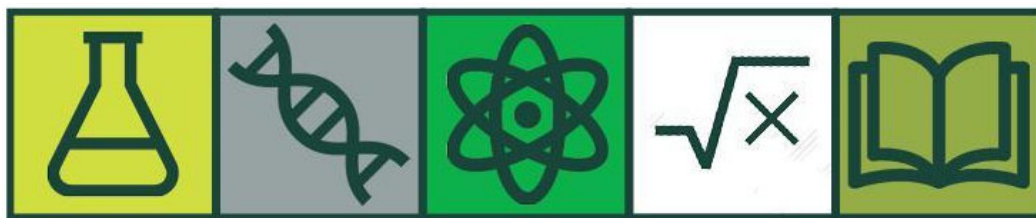
### **LB 492 (Degraw) Oral Presentation – W40 – 10:20am-12:10pm**

Title	Authors
Cyborg incubators for pregnancies	Radhika Sriram, Nam Phan, Sars Schaden
The AI Pharmacy Tech Assistant	Caitlin Kitchen, Shannon Taylor, Leah Durst
AI Fit: The Future of Nutrition Tracking	Rob Taylor, Jamie Liebold
Omni-Doc: the new vision solution for doctors	Claire Williams & Kelsey Coyne

### **LB 172L (Sewell Davis) Oral Presentation – C6/C7 – 11:30am-2:20pm**

Section 8 & 19

Title	Authors
Soap and biodiesel synthesis	Veronica Pargulski, Melina Catenacci, Derek Dinkins, Logan Haley
Bubbling Up Dishes and Ducks	Brooke DuRussel, Shaun Subbaiah, Cyril Hobeika
Effects of Water Pressure on the Cardiovascular System	Libby Kelly, Nikhita Sharma, Matthew Land, Abigail Ford
Limiting Reactions in the Kitchen	Natalie Horton, Avery Bell, Noah Mahnke, Avery Shrier
The Effect of Forest Fires on Greenhouse Gases	Alexandra Grabowski, Lokesh Ravindran, Mia Jones, Isabella Paoletti



## Lyman Briggs College Annual Research Symposium 2023 Schedule

### **LB 171 (Cass/Dzurka) Poster session – West Lounge – 11:30am-12:40pm**

Title	Authors	Location
Posters TBD		W(11)
		W(12)

### **LB 172 (Cass) Poster session – West Lounge – 11:30am-12:20pm**

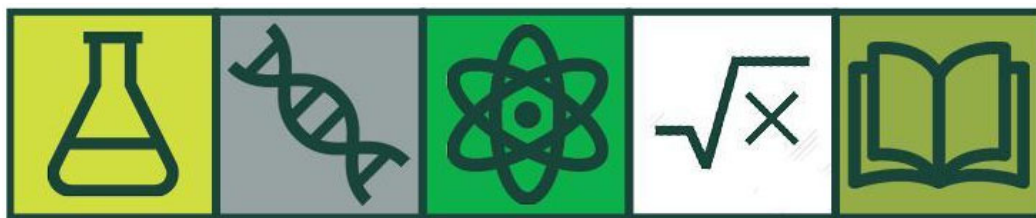
Title	Authors	Location
Deforestation: A Major Contributor to Rising Carbon Dioxide Levels	Sophie Bonnema, Jillian Helzer, Giuliana Ruffino, Sevak Thirunavukkarasu, Kayli Nguyen	W(1)
Petroleum - an Ocean of Dangers	Sophia Lanning, Raihan Malik, Rebecca Salmonson, Radhika Chandrasekharan	W(3)
The Chemical effects of plastic on the ocean	Emilia Di Nardo, Klaire Schott, Alex Terry	W(5)
Air Pollution in Detroit	Cayla Hardesty, Skye Rose Ridha, Jacquelyn Good, Nadine Shoushanian	W(7)
Willow Project and CO2 Emissions	Jack Watt, Nayan Mallya, Jack Abel, Gavin Betz	W(9)
Anaerobic Digestion and Environmental Sustainability	Ana Ivanov, Brooke Lattner, Mary Watanabe, Sofia Zestos	W(11)

### **LB 171 (Cass/Dzurka) Poster session – West Lounge – 12:40-1:30pm**

Title	Authors	Location
Posters TBD		W(11)
		W(12)

### **LB 172 (Stoltzfus) Poster session – West Lounge – 12:40-1:30pm**

Title	Authors	Location
Posters TBD		W(1)
		W(3)



## Lyman Briggs College Annual Research Symposium 2023 Schedule

### LB 172 (Cass) Poster session – West Lounge – 1:50-2:40pm

Title	Authors	Location
Environmental effects of Vinyl Chloride	Grant Bunch, Aydan McIntyre, Will Adams, Michael Facchinello	W(1)
Acid Rain Such a Pain	Meadow Link, Siersha Miller, Sara Bauer, Seth Goldstein	W(3)
A Sustainable Solution to the Gas Industry: Algae Biofuels	Mia Fett, Helen Spence, Parker Thiel, Lorenzo Thrasher, Sara Mann	W(5)
Slowing Down Fast Fashion	Gabrielle Partlo, Emma Palazzolo, Zoe Kerr, Mary Cottone	W(7)
Organophosphates in Pesticides	Ayverie Evangelista, Luca Bono, Swathi Thiyagarajan	W(9)
Fish on Prozac	Tammy Thai, Elizabeth Hedger, Emma Callender, James Powell	W(11)

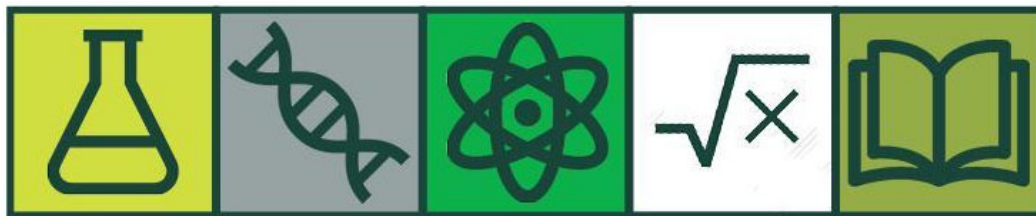
### LB 172L (Dzurka) Oral Presentation – C6/C7 – 3:00-5:50am

Section 9 & 22

Title	Authors
Biodiesel as a Fuel	Tammy Thai, Madison Kortman, Ayverie Evangelista, Puja Parmar
The Effects of CO2 Emissions on Soil and the Organisms Present	Grace Sanford, Lili Rosol, Michael Facchinello, Sunidhi Shintre

### LB 172 (Cass) Poster session – West Lounge – 3:00-3:50pm

Title	Authors	Location
Microbial Ocean Detox	Zoe Biggans, Brooke DuRussel, Megan Fuller, Kate Mumford, Reagan White	W(1)
Growing Marijuana: Effects on the Environment	Libby Kelly, Micheal Hamilton, Hannah Meltser, Sneha Mashalkar, Austin Jasky	W(3)
Nutrient Cycling from Runoff in Plants	Natalie Horton, Brooke Ognian, Nolan Lucera, Brittney Uhlmeier	W(5)
Phosphorus and the Great Lakes	Abigail Ford, Ayushi Shrof, Sonia Menon, Pranavi Pullela	W(7)
Environmental Effects: East Palestine, Ohio Chemical Spill	Alexandra Grabowski, Delaney Flavin, Sofia Kastelan, Emma Dziewit	W(9)



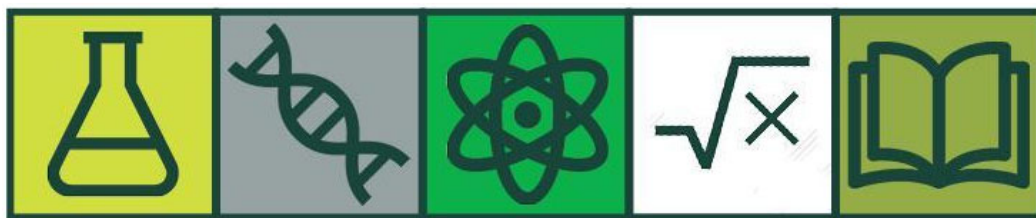
## Lyman Briggs College Annual Research Symposium 2023 Schedule

### LB 172 (Cass) Poster session – West Lounge – 4:10-5:00pm

Title	Authors	Location
Forever Chemicals	Faith Persyn, Emma Lechniak, Paige Nikollau, Samantha Stevens	W(1)
Coral Bleaching: Our Reefs. Our Problem.	Tyler Irving, Latrell Massey, Ryan Galdikas, Wesley Near	W(3)
Unsustainable Farming	Helen Bojarczyk, Mia Jones, Isabella Paoletti, Lisa Stuckman	W(5)
Acid Depositon	Shreya Shivakumar, Abhijit Allu, Francheska Iliev, Maddie Parrinello	W(7)
Soil Pollution	Milana Skoric, Lana Kouatli, Nate Deppen, Heli Sheth	W(9)

### LB 172 (Cass) Poster session – West Lounge – 5:20-6:10pm

Title	Authors	Location
The Effect of CFC on the Ozone Layer	Nikhita Sharma, Lucas Badiner, Rahul Vallurupalli, Madison Cooper	W(1)
The Effect Of Human Activity on the Nitrogen Cycle	Emma Anzivino, Allyson Duong, Shiyuan Chen, Ilcen Turan, Avery Bell	W(3)
Excess Nitrogen Content of Fertilizers and their Impacts on Marine Life	Elise Yoder, Julia Walton, Megan Hudson, Shivani Anandhasenthil	W(5)
TOXIC LEGACY: Agent Orange and the Environmental Injustice	Cameron Behnke, Kaveri Nambiar, Priya Mohanraji, Gabriel Almeida, Aamir Hasan	W(7)
		W(9)



## Lyman Briggs College Annual Research Symposium 2023 Schedule

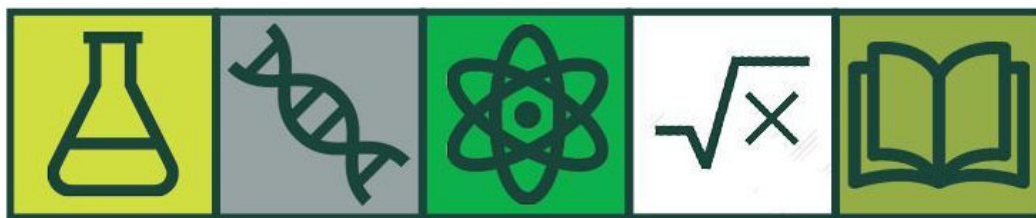
### LB 172L (Dzurka) Oral Presentation – C6 – 6:10-9:00pm

Section 25

Title	Authors
Kinetics relating to Refrigeration	Latrell Massey, William Robert, Amiri Walker, Shanmukund Buditha
The Science behind Shampoo	Sara Mann, Shreya Shivakumar, Olivia Livingstone, Tola Ogundipe
Solubility of Salt Rinse	Isabelle Chan, Medha Manepalli, Cheyanne Schlinke, Rory Durr
Real World Application of Titration: kH Testing	Jocelyn Mills, Sydney Mueller, Rachel Roberts, Madison Parrinello

### LB 172 (Cass) Poster session – West Lounge – 6:30-7:20pm

Title	Authors	Location
Effects of Acid Rain on Agriculture	Ananyaa Asthana, Angelica Habib, Cyril Hobeika, Chloe Sayre	W(1)
You're Going To Die! How Climate Change Will Change Your Life	Grace Sanford, Hannah Ebyson, Kylie Raynor, Roman Roukoz, Tahia Binta Salim	W(3)
Is Nuclear Energy an Environmental Threat or Solution: A Case Study on Chernobyl	Caroline Beckrow, Ania Grodsky, Abigail Lippert, Marissa Malleck	W(5)



**Lyman Briggs College Annual Research Symposium  
2023 Schedule**

**Friday April 29<sup>th</sup>**

**LB 172L (Stoltzfus) Oral Presentation – C6/C7 – 8:00-10:50pm**

Section 10 & 23

Title	Authors
<b>Solubility of Gases within the Lungs</b>	Linda Komis, Kayla Buchanan, Aiden Wright, Shashank Pagadala
<b>The changing uses of biodiesels</b>	Thomas Kelley, Saager Dubey, Adriana Azariah

**LB 172L (Barnard) Oral Presentation – C6/C7 – 11:30-2:20pm**

Section 11 & 24

Title	Authors
<b>Solving the Solubility Puzzle</b>	Vrinda Khullar, Kylee Bartholomew-Tangaro, Luke Richard, Brenna VanDenBerg
<b>From Grease to Gold: Solutions for Waste from Biodiesel Production</b>	Marla Karana, Avani Prasad, Cooper Sackett, Lacy Remisoski
<b>Finding the Perfect Balance: Buffer Solutions in the Blood</b>	Ashleigh Adelson, Angelica Habib, Shalin Kakasani, Gabriel Almeida
<b>The chemistry behind Covid-19 Tests</b>	Chaitra Kommaraju, Sara Kani, Rohan Namburar, Dennis Koval
<b>Blood buffers</b>	Kaela Atkinson, Carolyn Calin, Maleeha Mughal, William Spedoske
<b>How To Detect Lead in Water Using Spectroscopy</b>	Aiden Placer, Adina Peysakhov, Anthony Gaudino
<b>Titration for medication</b>	Parker Frye, Brianna Chartier, Dominic Green, Alaikya Devineni
<b>Limiting Reagents: Fertilizer &amp; Soil Nutrient Depletion from Wheat Crops</b>	Mia Mohtadi, Jasnoor Kaur, Matthew Peterson, Anthony Porco
<b>Accuracy and Precision in Anesthesia</b>	Mohammad Rammaha, Manasa Nemani, Aishah Abdulkadri, Jaden Bell