

7th annual

*Lyman Briggs
Research Symposium
Supported by MSUFCU
April 22-23, 2013*



Complete Schedule



LYMAN BRIGGS
COLLEGE

MICHIGAN STATE
UNIVERSITY

Classes Participating

| Room | Specific Time | Class | Title |
|----------------------------------|-----------------|------------------|-----------------------------|
| Monday Oral Presentations | | | |
| C-103 | 10:30am-12:10pm | LB 335 | Natural Capitalism Projects |
| C-106 | 11:30am-12:20pm | LB 274 | Applications of Physics |
| C7 | 3:00-5:50 | LB 172L 001, 007 | Chemistry 2 Lab |
| C7 | 7:00-9:50p | LB 172L 002, 15 | Chemistry 2 Lab |

East/West
Lounges

Monday Poster Presentations

| | | |
|----------------|-------------------------------|--|
| 9:10am- 5:00pm | LB 415 | Applications of Mathematical Techniques to Physics Research and Real-world Phenomena |
| 9:10-10:00am | LB 172 | Chemistry and Our Environment |
| 12:40-1:30pm | LB 172 | Chemistry and Our Environment |
| 1:50-2:40pm | LB 172 | Chemistry and Our Environment |
| 3:00-3:50pm | LB 172 | Chemistry and Our Environment |
| 5:20-7:10pm | LB 492 | Senior Seminar - Natural Products in Medicine |
| 6-8pm | MSUFCU General Poster Session | |

Tuesday Oral Presentations

| | | | |
|-------|-----------------|------------------|--|
| C7 | 8:00-10:50am | LB 172L 003 | Chemistry 2 Lab |
| W-25E | 10:20am-12:10pm | LB 492 | Senior Seminar - Contemporary Racial Topics |
| C7 | 11:30a-2:20p | LB 172L 004 | Chemistry 2 Lab |
| W-25E | 12:40-2:30pm | LB 492 | Senior Seminar - Solutions to Important Problems |
| C-106 | 2:40-4:00pm | LB 145 | Molecular Biology Research |
| C7 | 3:00-5:50pm | LB 172L 005 | Chemistry 2 Lab |
| W-25E | 5:00-6:50pm | LB 492 | Senior Seminar - The Nuclear Age |
| C7 | 7-9:50p | LB 172L 006, 018 | Chemistry 2 Lab |

East
Lounges

Tuesday Poster Presentations

| | |
|-------------|-------------------------------|
| 6:00-8:00pm | MSUFCU General Poster Session |
|-------------|-------------------------------|

Classes Participating

| Room | Specific Time | Class | Title |
|-------------------------------------|-----------------|------------------|---|
| Wednesday Oral Presentations | | | |
| C7 | 3:00-5:50pm | LB 172L 009, 019 | Chemistry 2 Lab |
| C7 | 7-9:50pm | LB 172L 010 | Chemistry 2 Lab |
| Thursday Oral Presentations | | | |
| C7 | 8:00-10:50am | LB 172L 011, 021 | Chemistry 2 Lab |
| W-25E | 10:20am-12:10pm | LB 492 | Senior Seminar - Contemporary Racial Topics |
| C7 | 11:30a-2:20pm | LB 172L 012, 022 | Chemistry 2 Lab |
| C7 | 3:00-5:50pm | LB 172L 013 | Chemistry 2 Lab |
| C7 | 7-9:50pm | LB 172L 014, 024 | Chemistry 2 Lab |

Monday Oral Presentations

| Room | Specific Time | Title | Presenter(s) (Class) |
|--------------|------------------------|--|---|
| C-103 | 10:30am-12:20pm | Natural Capitalism Projects | LB 335 |
| | | Multiple presentations; TBD | |
| C-106 | 11:30am-12:20pm | Topics in Physics | LB 274 |
| | | Colder than Absolute Zero? | Roger Mullet |
| | | The Physics of a Simple Radio | Jay Patel, Michael Sterner |
| | | The Foxhole Radio | Hassan Fadel, Sultan Quiblawi |
| | | Exploring the Physics of Optical Illusions | Vanessa Marinas and Megan Frayer |
| C7 | 3:00-5:50 | | LB 172L 001, 007 |
| | | 1 Astronomical Uses of Spectrophotometry | Ben Coberly, Zach Little, Katelynn Ritchie |
| | | 2 Vitamin | Abby Crampton, Mirijam Garske, Kylie Hadlich |
| | | 3 Atom Economy in the Real World | Clay Adams, Martin Dwornick, Matt Weingarten |
| | | 4 Ferrofluid | Anna Farrell, Lyle Moore |
| | | 5 Upgrading the Efficiency of Biodiesel | Sean Cutinha, Peter El-Khouri, Iyanna Peppers |
| | | 6 LED Emission Spectrum | Katie McCullen & Brad Stegmeyer |
| | | 7 Expansion on the Green Chemistry Lab | Brian Gutermuth, Casey Turney |
| | | 8 Partition Coefficient | Abigail Miller, Matt Jensen, and Jimmy Pontious |
| | | 9 Real World Necessity of Vitamins | Justine Miller, John Shinnars, Kara VanderKallen |
| | | 10 Cation Exchange | Nicholas Kondoleon, Jake Bolyard, Lauren Congdon |
| | | 11 Nutritional Benefits of Vitamins | Cameron Allie, Max Brown, Katy Kessler |
| C7 | 7:00-9:50p | | LB 172L 002, 15 |
| | | 1 Vitamin lab analysis: amount of ions present | Blake Blanas, Chase Ryan, Rooshab Shan |
| | | 2 Could save you life. | Megan O'Donovan and Kacey Womeldorf |
| | | Ferrofluids: Testing different compounds to change magnetic | |
| | | 3 strength | Kelsie Costello, Trevor Davis, Rohini Shrivastava |
| | | 4 Analysis of the Vitamin Lab | Caitlyn Behnke, Ryan Grosinger, Jake Beck |
| | | Vitamin lab: Group 1 and Group 3 elements, their role in the | |
| | | 5 body and how to find them | Abhiram Durgaraju, Kosta Vergos, Chris Smith |
| | | 6 Analysis of the Watershed lab | Betsy Mappilaparampil, Ashley Moore, Davind Chandra |

Tuesday Oral Presentations

| Room | Specific Time | Title | Presenter(s) (Class) |
|--------------|----------------------|--|---|
| C7 | 8:00-10:50a | | LB 172L 003 |
| | 1 | FerroFluids with different Surfactants | Angela Niezgoda, Katie VanZee, Marisa Reynolds |
| | 2 | LED Application | Morgan McLane, Courtney Miller, Rohan Goel |
| | 3 | The Effect of Biodiesel on Ferrofluids | Emily McCarthy, Rachel Suggs, Elias Cueter |
| | 4 | Yum Yum Calcium | Madalyn Gildea, Juliana, Pattera, Edward Budeca, Allison Hilliker, Joshua Hocemeyer |
| | 5 | in differing atmospheric conditions | David VanderZee, Laura Finn, Kotomi Obayashi |
| | 6 | Vitamins in Your Body | Hinal Patel, Marianne Carney, Morgan Potter |
| | 7 | The Efficiency of Biodiesel on the Environment | Charmaine White, Lauryn Boag, Dean Antonio |
| | 8 | Utilizing Partion Coefficient and Biodiesel on Spills | Manasa Gummalla, Harshita Pinnameni, Meagan Cuff |
| | 9 | The applications of LEDS in everyday life | |
| | 10 | Application of Ferrofluids | Merenda Fairchild, Brandi Halan, Mike Pascoe |
| | 11 | Vitamin Test | John Tyler Parmer, Stephani Sawicki |
| W25-E | 10:20-12:10pm | | LB 492 - Contemporary Racial Topics |
| | 10:20-10:50 | Ethnic Plastic Surgery | Julie Adamo, Lindsay Comerford, Lisa Vitello, Monika Bhatt |
| | 10:50-11:20 | TBD | Rachel Meyer, Sarah Overcashier, Elise Wright, Sara Mousa |
| | 11:20-11:50 | TBD | Brian Grisdela, Jose Zamora-Sifuentes, Nic Rochte |
| C7 | 11:30a-2:20p | | LB 172L 004 |
| | 1 | What's In Your Drink? | Brynn Peterson, Eden Roth, Tim Roarty |
| | 2 | The Chemistry of Ferrofluids | Shauna Stadelmaier, Zainab Aldame, Ataur Chowdhury |
| | 3 | Supplements for Survival | Ashley Raedy, Emily Campbel, Andrea Ring |
| | 4 | The Impact of Partion Coefficient on Environmental Chemistry | Karra Larkins, Meredith Reid, Emily Watson |
| | 5 | The Chemistry of Recyrstalization | Megan Hawley, Katy Gwizdala, Tommy O'connor |

Tuesday Oral Presentations

| Room | Specific Time | Title | Presenter(s) (Class) |
|---------------------------------|---------------------------------|---|---|
| W25-E | 12:40-2:30pm | LB 492 - Solutions to Important Problems | |
| | | Solutions to Important Problems | Kevin Leikert |
| | | Solutions to Important Problems | Brenton Craggs |
| | | Solutions to Important Problems | David Lutz |
| | | Solutions to Important Problems | Somers Smott |
| | | Solutions to Important Problems | Kate McGlew |
| | | Solutions to Important Problems | Amy Pochodylo |
| | | Solutions to Important Problems | Lawrence Berry |
| | | Solutions to Important Problems | Joanne DeMois |
| Solutions to Important Problems | Ashley Culver | | |
| W25-E | 3:00-4:50p | LB 492 - The Nuclear Age | |
| | | Jake Aubry | The Chernobyl Disaster |
| | | Alysa Butz | The Soviet Nuclear Program |
| | | Jon Colley | The Fukushima disaster |
| | | Andreana Masters | North Korea's Nuclear Weapons Program |
| | | Dan Lewandowski | The Higgs Boson |
| | | Ariel McConnell | Soviet Spies in America |
| | | Alex Rolfe | Nuclear Proliferation and the Middle East |
| Cory Wheeler | Libya's Nuclear Weapons Program | | |

Tuesday Oral Presentations

| Room | Specific Time | Title | Presenter(s) (Class) |
|-----------|-------------------|--|--|
| C7 | 3:00-5:50p | | LB 172L 005, 017 |
| | 1 | V. Lab | Ian Ferguson, Nick Marsala, Grant Boxey |
| | 2 | Calorimetry of Common Drinks | Amy Blicharski, Nika Olszewski, Karisa Knisely |
| | 3 | Vitamin Lab | Moriah Foley, Sam Blair, Paul Leville |
| | 4 | Biomedical Applications of Ferrofluids | Michella McCormick, Cody, Nicks, Jackie Brooks |
| | 5 | Ferrofluid | Kaitlyn Rush, Olivia Goethe, Ben Caldwell, Giovanni Thunderhorse |
| | 6 | Science as Art | Leah Gestov, Alyssa Nesbitt, Katie Manning |
| | 7 | Soap And Biodiesel | Nihal Panchal, Brad Petrowitz, Connor McCalmon |
| | 8 | A Kinetic Study of the Breathalyzer Reaction | Meghan Tokarski, Cara Stewart, Kelley Kerwin |
| | 9 | Synthesis of Ferrofluids | Andrea Bannick, Haley Wild, Joe Friedli |
| | 10 | Ion Analysis of Sports Drinks | Taylor Bluhm, Jill Mullaly, Kevin Jeong |
| | 11 | Partition Coefficient | Justin Byrne, Hannah Tadian, Kylie Hartford |
| | 12 | Chemistry of Ice Cream Making | Emma Snider, Evan Cassar, Katie Benedetti |
| | 13 | Spikes in Technology: Ferrofluids in Electronics | Zach Wolfe, Michaela Kehoe, Alaina Skotak |
| C7 | 7-9:50p | | LB 172L 006, 018 |
| | 1 | Blood as a Buffer | Chris Zuverink, Colleen Curtiss, and Jade Woodruff |
| | 2 | Emission Spectrum | Michael B, Lauren B, Scott M |
| | 3 | Soaking up Ions | Anthony Lograsso, Patrick Brodesser, and Shelby Hooper |
| | 4 | Synthesis Lab | Adam Bolton, Sean O'Connell, Jacob Franks |
| | 5 | LED - topic unknown | George Park, Claire Barna, and Jaime Winters |
| | 6 | Vitamin Lab | Carley Henke, Lexie Gohlke, Ryan Gifford |
| | 7 | Synthesis - topic unknown | Carina Martin, Victoria Groberski, and Adrienne Spring |
| | 8 | Partition Coefficient | Tiffany J, Tyler M, Ross W |
| | 9 | Limitations of Qualitative Analysis | Salvatore Leone, Devon Newsom, and Andrew Benner |
| | 10 | Vitamin Lab | Aarthi H, Kaila L, Beelal F |
| | 11 | Benefits of Multi-oil soaps | Aaron Walkowski, Gina Cherniawski, and Matthew Lyth |
| | 12 | Vitamin Lab | Brianna Marzolf, Shruti R.avishankar, Lauren Greenwood |

Monday Poster Presentations in East/West Lounges

| Displayed Timeslot Morning | Presenter at Poster | Title | Presenter(s) (Class) | East/West |
|----------------------------|---------------------|--|--|-----------|
| 9:00-11:10am | 9:10-10:00am | <i>LB 172 Presentations</i> | | |
| | | Greenhouse Gases | Clare Laut, Laura Osaer, Julia Simon, Megan Kechner, Kali Allis Theresa Abalo, Clates Adams, Emily Campbell, Stephanie | W(1) |
| | | Coral Bleaching: You Think Your Stressed? | Helminiak, Katelynn Ritchie | W(2) |
| | | Ozone Depletion | Maria Schweiss | W(3) |
| | | Environmental Effects of Nuclear Power | Sara Dykowski, Alek Pasma, Jake Bolyard, Max Brown Angela Niezgoda, Eden Roth, Andrew Uggeri, Lea Schafer, Davis | W(4) |
| | | Hydrogen Fuel Cells | Anderson | W(5) |
| | | Hydraulic Fracturing | Brynn Peterson, Marie Dohm, Ian Plamondon, Jon Sanford | W(6) |
| | | Oil Spills | Alyssa Klein, Lauren Brandon, Stephani Sawicki, Ashley Raedy, Jacqueline Brooks | W(7) |
| | | Solar Engery | Andrea Ring, Jessica Plemmons, Adam Derubeis, Josh Hockemeyer | W(8) |
| | | Environmental Impacts of Oil Spills | Shauna Stadelmaier, Megan Hawley, Claire Barna, Emma Burt | W(9) |
| | | Hydraulic Fracturing in the United States | Kyle Latack, Meredith Anderson, Ryan Achrem, Kylie Hadlichk | W(10) |
| | | Agent Orange | Matthew Jensen, Ellie Martines, Freddy Bahena, Jacob Franks | W(11) |
| | | Geothermal Energy | Jynessa Brosier, Sarah Hackert, Skylar Keller, Riley Smith, Aarthi Hari | W(12) |
| | | Solar Energy | Carolyn Wendeln, Valencia Smith, Amy Blicharski, Justine Miller, Kara VanderKallen | E(3) |
| | | Algae Biofuel | Danielle Puckett, Brad Kurzynowski, Ben Caldwell, Ahmad Tahawi, Mohammed Rathur | E(4) |
| | | Fertilizer Runoff | Karina Wojtas, Cody Nicks, Ian Ferguson, Connor McCalmon, Andrew Barnikow | E(5) |
| | | Lead Poisoning | Hannah Tadian, Katie McCullen, Meagan Cuff, Mitch Reddan | E(6) |
| | | Global Dimming | Casey Turney, Olivia Goethe, Brad Stegmeyer | E(7) |
| | | fertilizer runoff | Andrew Barnikow, Ian Ferguson, Cody Nicks, Karina | E(8) |
| | | Do You Even FTR?: Liquid Fluoride | | |
| | | Thorium Reactors | Madalyn Gildea, Jacob Lehman, Zachary Johnson, Nolan Brown Maria Schweiss, Iyanna Peppers, Brandi Halan, Erik Blackowicz, | E(9) |
| | | Ozone Depletion | Erika Kowall | E(10) |
| | | Biodiesel | David Saluatori, Robert Rotondo, Erin Miller, Nick Mazur, Nick Kondeleon | E(12) |
| 9am-5pm | | | | |
| | | LB 415 Applications of Mathematical Physics | | E(1) |
| | | Applications of Mathematical Physics | | E(2) |

Monday Poster Presentations in East/West Lounges

| Displayed Timeslot | Presenter at Poster | Title | Presenter(s) (Class) | East/West |
|--------------------|---------------------|--|---|-----------|
| 12:40pm-2:40pm | 12:40-1:30 | <i>LB 172 Presentations</i> | | |
| | | Environmental Chem Project | Erica Halm, Maura Griffith, Vanessa Noecker, Mike Mccord, Victoria Reifel | E(3) |
| | | Industrial Pollution in the Marine Ecosystem | Brad Petrowitz, Zach Wolfe, Elias Cueter | E(5) |
| | | Hydrogen Fuel Cells | Karissa Gorr, Melissa Mermiges, Blake Blanas | E(7) |
| | | Solar Power Chemistry | Lindsay Dean, Jaime Winters, Alyssa Dillenbeck | E(9) |
| | | Oil Spills | Sara Griffith, Ryan Grady, Haley Clark | E(11) |
| | | Feminizing the World: The Effects of Estrogen in the Environment | Char Panek, Katie Long, Abigail Miller, Cassandra Wade | E(13) |
| | | Oil Spills | Allison Riley, Alex Ismail, Bradley Leuenhagen | E(15) |
| | | Fracking of Methane | Trevor Davis, Zach Little, Alyssa Nesbitt, Kimmy Bareis | E(17) |
| | | Volatile Organic Compounds | Tim Stark, John Shinnars, Dana Castle, Chris Zuverink, Chase Ryan | E(19) |
| | | The Chemical Effects of Chlorofluorocarbons | Dean Antonio , Caleb Bailie , Nick Marsala , Ethan Bowyer | W(1) |
| | | Cadmium and The Environment | Carina Martin | W(3) |
| | | Oil Fracking | Sarah MacLachlan, Tia Barbera, Jillian Mullally, Courtney Miller, Erica Haragos | W(5) |
| | | Corexit/Oil Dispersants | Grant King, Adam Bolton, Shelby Hooper, Brian Gutermuth | W(7) |
| | | Ocean Acidification Caused by CO2 | Michaela Kehoe, Colleen Curtiss, Alaina Skotak | W(9) |
| | | Lead in Soil | Cara Stewart, Ashley Wheeler, Taylor McClelland, Erica Crown | W(11) |
| | | Glyphosate | Brianna Marzolf, Gina Cherniawski, Emily Hilliker | W(13) |
| | | Biodiesel and the Environment | Rohini Shrivastava, Katie Benedetti, Jenna Chandler, Katie Gwizdala | W(15) |
| | | Acid Rain | Zachary Howell, Ryan Stephen, Jack Peleman | W(17) |
| | | LB145 Bioluminescence in Symbiotic Relationships | Spencer Potter, Emily Smith | W(21) |
| | | LB415 Applications of Mathematical Physics | | E(1) |
| | | LB415 Applications of Mathematical Physics | | E(2) |

Monday Poster Presentations in East/West Lounges

| Displayed Timeslot | Presenter at Poster | Title | Presenter(s) (Class) | East/West |
|--------------------|---------------------|--|--|-----------|
| 12:40pm-2:40pm | 1:50-2:40pm | | <i>LB 172 Presentations</i> | |
| | | Enviornmental Impact: Solar Power | Connor Kerndt, Lyle Moore, John Boss, Morgan McLane, Haley Wild | E(4) |
| | | Acid Precipitation | Meaghan Tokarski, Andrea Bannick, Katie Manning, Sofia Kim | E(6) |
| | | Solar Energy | Moriah Foley, Rachel Pierce, Sarah Newman, Josh Krueger | E(8) |
| | | HFCS and PFCs | Lauryn Boag, David Chandra, James Coberly, Jessie Ding, Aquila Hussain | E(10) |
| | | The Chemistry Behind Wind Power | Tess Vindischman, Juliana Pattera, Kali Rush | E(12) |
| | | Crude Oil Composition | Rachel Suggs, Anna Grace Mauro, Allison Hilliker, Kaitlyn VanZee | E(14) |
| | | Analyzing the Mercury Predicament | Meranda Fairchild, Lindsey VanderVeen, Anna Farrell, Abigail Crampton | E(16) |
| | | Acid Rain in the Environment | Rebecca Brosig, Shelby Strohl, Aimee Jackson, Nabila Khan | E(18) |
| | | Atrazine | Mirijam Garske, Leah Getsov, Abhiram Durgaraju, Peter El-khoury, Sean Cutinha, Varun Matta | W(4) |
| | | Corexit, Effective or Harmful? | Lauren Mamaril, Brett Fortin, Sam Blair, Kelsey Downs, Cam Allie | W(6) |
| | | Causes of Global Warming | Thomas Bolden, Anthony Di Ponio, Matt Griffin, Allie Richardson | W(8) |
| | | Hydrogen Fuel Cells | Aaron Oom, Katie Robbins, Jacob Dekens, Michael Terrio, Justin Byrne | W(10) |
| | | Acid Rain | Mukherjee, Holly Blondin | W(12) |
| | | Bioplastics and Our Environment | Grant Boxey, Ryan Hook, Nihal Panchal, Edward Budeca | W(14) |
| | | Dangers of Nuclear Energy Contamination and Usage to the Environment | Andrew Korneffel, Chris Smith, Ryan Gifford, Jake Boshoven, Oliver Kew | W(16) |
| | | The Keystone XL Pipeline: A Helping Hand or Hazard? | Kacey Womeldorf, Emma Snider, Zachary Coughlin, Emily Mclachlan | W(18) |
| | | The Dark Side of Paper Bleaching | Ros White, Matt Weingarten, Mike Tschirhart | W(22) |
| | | LB145 Bioluminescence- In Altered Light | Tori Balogh, Caitlin McNichols | W(20) |
| | | LB415 Applications of Mathematical Physics | | E(1) |
| | | LB415 Applications of Mathematical Physics | | E(2) |

Monday Poster Presentations in East/West Lounges

| Displayed Timeslot | Presenter at Poster | Title | Presenter(s) (Class) | East/West |
|--------------------|---------------------|---|---|-----------|
| 3:00-5:00 | 3:00-3:50pm | | <i>LB 172 Presentations</i> | |
| | | Biomass as Alternative Energy | Taylor Bluhm, Emmerson Bissell, Jordan Smith, Danielle Wood, Marteesa Coleman | E(3) |
| | | The Effects of Greenhouse Gases on Global Warming | Thomas Sandiha, Oscar Castro, Bobby Ubhi, Paul Leveille, Kaila Larkins | E(4) |
| | | Dioxins | Kylie Hartford, Kelly Kerwin, Laura Robertson, Jessica Plastow, Kyle Rentsch | E(5) |
| | | Natural Gas Fracking | Alexis Lockett, Michella McCormick, Meredith Reid, Manasa Gummalla | E(6) |
| | | Algal Bloom | Michael Pascoe, Laura Finn, Jamie Guild, Nicholas Laubach | E(7) |
| | | Methyl Bromide | Emily Berry, Alexis Faber, Marianne Carney, Lindsay Schichtel, Jessica Zaleski | E(8) |
| | | Fluoridation of Water Pros and Cons | Sienna Kotch, Aubrey Surowitz, Steven DeClercq, Marisa Reynolds | E(9) |
| | | Hydrogen Fusion Fuel | Ali Haque, Aaron Walkowski, Andrew Benner, Lucas Waling | E(10) |
| | | Fertilizers | Zainab Aldhamen, Karra Larkins, Julia Hamilton, Aubrie Goodman | E(11) |
| | | Hydrolic Fracturing | Jannet Jones, Meghana Gudivada, Ogie Avramovska, Ryan Regan | W(1) |
| | | Organic Solar Cells | Salvatore Leone, Megha Vashi, Ankita Kadarmandalgi, Anthony Lograsso, Todd Tarian | W(2) |
| | | CFC's and the Ozone Layer | Kathryn Schauer, Ryan Goleniak, Alexander Balinski, Matthew Zammit | W(3) |
| | | Acid Rain | Sonam Sethi, Sean O'Connell, Neil Dharia, Miles Hudson, Joeshibin Victorjoseph | W(4) |
| | | Asbestos | Victoria Groberski, Ashley Koehler, Anna O'Toole, Melanie Graham, Emily Watson | W(5) |
| | | Biodiesel | Kellie Zawisa, Benny Hilado, Mikail Sizen | W(6) |
| | | The Environmental Impacts of Chlorofluorocarbons | Brian Batayeh, Alex Parker, Candace Nagia, Emilie Gupta, Morgan Rice | W(7) |
| | | Oil Spill | Trinkal Patel, Hinal Patel, Harshita Pinnamaneni, Jordan Smeenge, Beelal Fakhouri | W(8) |
| | | Organophosphate pesticides | Andrew Lepczyk, David Cook, Matt Clune, Matt Shanley, Katie Behnke | W(9) |
| | | Solar Panels | Kiana Gilmore, Julia Schwarz, Deven McCullers, Angelina Ramos | W(10) |
| | | | | W(11) |


Monday Poster Presentations in East/West Lounges

| Displayed Timeslot | Presenter at Poster | Title | Presenter(s) (Class) | East/West |
|--------------------|---------------------|--|--------------------------------------|-----------|
| 5:00-6:00pm | 5:00-6:00pm | Volcanism of Deception Island: Geologic History and Impacts on Human Activities | Charlotte Lee | E(1) |
| | | Skull vs Brain: An Evolutionary Perspective on Structure and Function in Humans | Danielle Jamrog | E(2) |
| | | Bioluminescence of The Ostracod of The Bloody Wall in the Cayman Islands | Deven McCullers, Jasmine McCoy | E(3) |
| | | A Comparison of Antibiotic Resistant Bacteria between the Equine and Bovine Environments | Alex Meisel, Euntaek Lee, Minjae Kim | E(4) |

Monday Poster Presentations in East/West Lounges

| Displayed Timeslot | Presenter at Poster | Title | Presenter(s) (Class) | East/West |
|--------------------|---------------------|---|--|-----------|
| Evening 5-8pm | 5-7pm | | <i>LB 492 - Natural Products in Medicine</i> | |
| | | Childhood Leukemia - Acute Lymphoblastic Leukemia | Michael McDowell Jr. | W(1) |
| | | Marine Natural Products and Ethics | April Korneli | W(2) |
| | | Controversial Drugs Used in Cancer Therapy | Kelsey Leicht | W(3) |
| | | Common Poisonous Household Natural Products for Pets | Megan Richardson | W(4) |
| | | Natural Products and Weight Loss | Casey Spooner | W(5) |
| | | Biomimicry: Harvesting Solutions | Zach Gaudette | W(6) |
| | | Aloe Vera: Nature's Nurturing Nectar | Andera Parker | W(7) |
| | | Probiotics | Erin Weisler | W(8) |
| | | The Science Behind the Mediterranean Diet | Caitlin O'Brien | W(9) |
| | | A Story About Mary: The Situation Regarding Medical Marijuana | Robert Pemberton | W(10) |
| | | Autism | Gina Carnago | W(11) |
| | | "Natural" products: engineering polyketide synthases to produce novel compounds | Sarah Smaga | W(12) |
| | | Insects and Their Natural Products | Kevin Kelly | W(13) |
| | | The truth behind synthetic vs. natural products. | Sean Benner | W(14) |
| | | Misconceptions of rBST Result in Missed Opportunities | Carolyn Schupp | W(15) |
| | | Antibiotic Resistance in Agriculture | Dan Readett | W(16) |
| | | Fructose and its role in the Obesity Epidemic | Anthony Dimovski | W(17) |

Monday Poster Presentations in East/West Lounges

| Displayed Timeslot | Presenter at Poster | Title | Presenter(s) (Class) | East/West |
|--------------------|---------------------|---|--|-----------|
| Evening 6-8pm | | |  MSUFCU Poster Session | |
| | Research | Comparing the Longitudinal Impacts of Three Formats of MSU General Chemistry Courses | Rebecca Tauscher | E(1) |
| | Research | Vitamin B12 malabsorption with proteinuria in border collies | Shelby Hemker, Jayme Olsen, Pat Venta, Urs Giger, John Fyfe | E(2) |
| | Research | Lillian Gilbreth: The Fearless Mother of Twelve | Jill Nelson | E(3) |
| | Research | Alkalinity and Beyond: A brief look inside the mystery of the majestic untouched lakes of Isle Royale | Stephen Rivard, Angela DePalma-Dow | E(4) |
| | Research | Biocontrol of Burkholderia XXVI in Pseudomonas Thaliana | Kristin Drumheller | E(5) |
| | Research | Synthesis and Evaluation of Chromium (IV) Nitrido Compounds | Yvonne DePorre | E(6) |
| | Research | Effects of Retinoblastoma Protein Mutations in Developing Tissues | Jared Elenbaas | E(7) |
| | Research | Contractility in Uterus and Cervix | Emma Darios, Stephanie Watts | E(8) |
| | Research | Historical Climate and Streamflow Trends of the Grand Traverse Bay Region | Charlotte Lee, Sherry Martin, Anthony Kendall, David Hyndman | E(9) |
| | Research | Inhibition of GAPDH-mediated Protection of Telomeres in Mueller Cells by Hyperglycemia | Sirisha Yellayi, Susanne Mohr, Prathiba Jayaguru | E(10) |
| | Research | Effects of pH and Nutrition Depletion on Group B Streptococcus Cells that Exist in Biofilms | Clare Laut | E(11) |
| | LB145 | A Sparkling Sea- Bioluminescence | Morgan Rogalke, Allanah Hammond | E(12) |
| | Research | Exploring age related changes in microvascular function with MRI | Kayle Noble | E(13) |
| | LB172 | Isoprene Synthesis as a Rubber Alternative | Meranda Fairchild | E(14) |
| | LB492 | Factors and trends affecting interest in STEM career paths between genders from grade school to college | Madalyn Parker, Charlotte Lee, Shayna Taylor | E(15) |
| | LB492 | America: The Business of Creating Bad Healthcare | David Lutz | E(14) |

Tuesday Poster Presentations



Location
East/
West

General Timeslot

Presenter with Poster

Title

Presenter(s)

MSUFCU Poster Session East Only

Evening
6:00-8:00pm

| | | | |
|-----------------|--|----------------------------|-------|
| Research | How Children Find a Bird in Iceberg: Exploring Noun-Noun Compound Usage in Children | Kyle Latack, Mina Hirzel | E(1) |
| Research | Direction Specific Computational Protein Refinement via Steered Molecular Dynamics | Keenan Noyes | E(2) |
| Research | Epizootiology of Emergent Flavobacteria in Great Lakes Chinook Salmon (<i>Oncorhynchus tshawytscha</i>) and Hatchery Waterways | Nicole Zokvic | E(3) |
| Research | Implications of Novel Lung Cancer Associated Mutations in Human Retinoblastoma Family Protein p130 | Monica Pomaville | E(4) |
| LB492 | The Capacity for Assuming a Depressive State is an Adaptive Trait in Social Mammal Species | Maris Polanco | E(5) |
| LB145 | Shedding Light on Firefly Bioluminescence | Desmond Kearsley | E(6) |
| Research | Electron Capture and Charge-Exchange Reactions | Dana Koepppe, Remco Zegers | E(7) |
| Research | Allelopathic effects of <i>Alliaria petiolata</i> on rhizobia and its implications for native legume performance | Tina Van Doornik | E(8) |
| Research | Hypertension and Cardiac Hypertrophy in MLK3 Knockout Mice | Kevin Kelly | E(9) |
| Research | "Behind the Seeds" of Hydroponics at Disney | Lauren Selewski | E(10) |
| LB145 | Bioluminescence and the Crystal Jellyfish | Nicole LeClair | E(11) |
| Research | Histological and Molecular Profile of TFAP2A Knockout Embryos Reveal Critical Function in Skin Development | Ari Walter | E(12) |
| Research | Alcohol use & emergency room visits: USA estimates for 12-20 year olds, 2005-2011 | Rebecca Brosig | E(13) |

Wednesday Oral Presentations

| Room | Class order | Title | Presenter(s) |
|-----------|--------------------|---|--|
| C7 | 11:30-2:20p | | LB 172L 008 |
| | 1 | Vitamin Lab | Thomas Sandiha, Valencia Smith, Ryan Goleniak |
| | 2 | Ferrofluids | Devon Holt, Haley Rohde |
| | 3 | Vitamin Lab | Ankita Kadarmandalgi, Freddy Bahena, Deven McCullers |
| | 4 | Vitamin Lab using protein/energy drinks | Olivia Dunn, Alexis Lockett, Eric Fuller |
| | 5 | LED | Benjamin Seely, Jordan Smith, John France |
| C7 | 3-5:50p | | LB 172L 009, 019 |
| | 1 | Breaking Down Vitamins | Dana Castle, Anna Grace Mauro, Brett Fortin |
| | 2 | Testing Sports Drinks | Sarah Maclachlan, Andrew Uggeri, Ryan Hook |
| | 3 | Medical Uses of Ferrofluid | Lauren Mamaril, Sandra Bugariu, Melissa Mermiges |
| | 4 | Vitamins in Protein Shakes | Lea Schafer, Jake Lehman |
| | 5 | Partition Coefficient of Aspirin | Laura Osaer, Jack Peleman, Gaelle Bottex |
| | 6 | Synthesis of Sodium Acetate | Kyle Latack, Julia Simon, Genevieve Cornwall |
| C7 | 7-9:50p | | LB 172L 010, 017 |
| | 1 | Pleasant Smelling Chemistry | Matt Shanley, Kali Allis, Jamie Guild |
| | 2 | Lighting the Way | Brian Batayeh, Cassandra Wade, Jynessa Brosier |
| | 3 | Uses and Applications of Coordinated Complexes | Benedict Hilado, Megan Kechner, Katie Long |
| | 4 | What's In Your Water? | Anna O'Toole, Jon Montrose, Riley Smith |
| | 5 | What's In Vitamin Water? | Clare Laut, Viviana Raptis, Nabila Khan |
| | 6 | The Foundation of Makeup | Erica Crown, Jacob Best, Melanie Graham |
| | 7 | Different Solvents and their Effect on Ferrofluid | Rob Rotondo, Sara Griffith, Jacob Boshoven |
| | 8 | Boys from Men: The Partition Coefficient | Zack Dutcher, Oliver Kew, Ali Haque |
| | 9 | Ion Testing of the Red Cedar Watershed | Alex Balinski, Kimmy Bareis, Conner Kerndt |
| | 10 | The Secret Behind the Spikes | Kathryn Shauer, Aubrie Goodman, Jessica Plemmons |
| | 11 | Applications and Science Behind Biodiesel | David Salvatore, Caleb Bailey, Brad Leuenhagen |
| | 12 | Fueling the Future | Grant King, Neel Vellanki, Emily McLachlan |

Thursday Oral Presentations

| Room | Class order | Title | Presenter(s) |
|--------------|----------------------|---|--|
| C7 | 8:00-10:50a | | LB 172L 011, 021 |
| | | How Are Vitamins Actually Affecting Our 1 Bodies? | Anthony DiPonio, Mikail Sizen, and Julia Schwarz |
| | | 2 Real life uses of partition coefficients | Karalyn Kiessling, Jon Sanford, and Davis Anderson |
| | | 3 Ions present in cold and pain relief medicines | Tim Stark, Lucas Waling, and Allie Richardson |
| | | 4 Qualitative Analysis in the Industry | Kevin Fitzgerald, Kiana Gilmore, and Ian Plamondon |
| W25-E | 10:20-12:10pm | | LB 492 - Contemporary Racial Topics |
| | 10:20-10:50 | TBD | Lindsay Armstrong, Becky Campa |
| | 10:50-11:20 | TBD | Ellen Howard, Sarah Schumacher, Cecille Jarrad |
| C7 | 11:30-2:20p | | LB 172L 012, 022 |
| | | 1 Ferrofluids | Aquila, Rebecca, Andrew |
| | | 2 Rare Crystals | Sarah Newman, Joe vVictorjoesph, Aubrey Surowitz |
| | | 3 Ferrofluids | Lokesh, Jay, Lindsey |
| | | 4 Biodiesel | Kellie Zawisa, Megha Vashi, Neil Dharia |
| | | 5 LED | Sienna, Nolan, Vanessa |
| | | 6 Vitamin Lab | Karina Wojtas, Holly Blondin, Alek Pasma |
| | | 7 Biodiesel | Sofia, Kelsey, Morgan |
| | | 8 vitamin lab and spectroscopy of atoms and ions lab | Erica Haragos, Chris Montague, Jessie Ding |
| | | 9 Reaction Mechanism | TJ, Matt, Stephanie |
| | | 10 Vitamin lab comparison to other nutrients | Maura Griffith, Laura Robertson, David Cook |
| | | 11 Womens vitamins vs mens vitamins | Matt Griffin, Jessica Zaleski Rohini Mukherjee |

Thursday Oral Presentations

| Room | Class order | Title | Presenter(s) |
|-----------|----------------|--|---|
| C7 | 3-5:50p | | LB 172L 013, 023 |
| | 1 | Solar Panels as Semiconductors | Rachel Pierce, Victoria Reifel, Alex Cramer |
| | 2 | Biodiesel | Trinkal Patel, Erin Miller, Emily Berry |
| | 3 | Can a Goldfish Survive in the Red Cedar? A Comparison of Ammonium and Nitrate Levels Between a Fish Tank and the Red Cedar | Jenna Chandler, Ryan Achrem, Candace Nagia |
| | 4 | Biodiesel | Paige Smith, Michael Terrio |
| | 5 | Cottage Crystals | Amy Fedeson, Amy Wozniak, Lindsey Schictel |
| | 6 | Titration of an Antacid | Ryan Stephen, Lexie Lynn, Keila LaFreniere |
| | 7 | Pancreas Saponification | Alex Parker, Mackenzie Feringa, Brian Whaley |
| | 8 | Ferrofluids | Kelly Giuliani, Jennifer Beckner, Chelsey Klein |
| | 9 | Ferrofluid Fun! | Aaron Oom, Ogie Avramovska, Jannet Jones |
| | 10 | Partition Coefficient | Mike McCord, Nick Mazur |
| | 11 | Just Around the River Bend | Emilie Gupta, Danielle Wood, Marteesa Coleman |
| | 12 | LED Lab | Adam DeRubeis, Haley Clark, Mike Ayres |
| | 13 | Ferrofluids: Uses and Mechanisms | Jordan Smeenge, Kyle Rentsch |
| C7 | 7-9:50p | | LB 172L 014, 024 |
| | 1 | Vitamin Lab test using water comparing minerals, impurities and flame test. | Alex Ismail, Emmerson Bissell, Miles Hudson |
| | 2 | Very Vital Vitamins | Mitchell Harvey, Ashley Koehler, Jessica Plastow |
| | 3 | Vitamin Lab test using different vitamin waters. | Katharine Glover, Emily Hilliker, Ryan Grady |
| | 4 | Biodiesel: The fuel of the future | Katelyn O'Brien, Maria Schweiss, Ryan Regan, Mitch Reddan |
| | 5 | LED lab under differing conditions | Andrew Lepczyk, Brent Nutt, Stephen Rivard Skylar Keller, Char Panek, Danielle Schepperley, Erik Blackowicz, Steve Declarq |
| | 6 | SUPER SOAPER 3000 | Lindsay Dean, Jesse Whitfield |
| | 7 | Calorimetry using different foods | Meredith Anderson, Zachary Coughlin, Vladislav Jdanov |
| | 8 | Cation exchange in farming soils | Josh Krueger, Andrew Cwiek |
| | 9 | Gummy Bear Calories (calorimetry) | |