

STARSCAPES

INNOVATION
& CREATIVITY

SHOWCASE



Fall 2017
Student Innovation
and Creativity Showcase

Program and Project Descriptions



Introduction

LCC Student Innovation and Creativity Showcase December 6 and 7, 2017 in the Gannon Commons

StarScapes is a student showcase of creative, imaginative, and interesting work. Presentations include projects produced for LCC classes, as well as work developed through students' own independent study and research. StarScapes is an opportunity for students to share research, capstone presentations, honors option projects or other creative, imaginative and interesting work with the LCC community.

For fall of 2017, more than 130 students share their art, music, technology, sociology, anthropology, science and engineering projects in the form of live demonstrations, sculpture, film, poetry readings, sketches, mini-seminars, and poster presentations.

All students or groups of students who pursued a research or creative project was invited to participate in StarScapes with the support of a faculty sponsor. Where possible, posters will be available for viewing throughout Wednesday and Thursday. Films and other digital projects will be presented on a rotating basis.

To all students and faculty that participated in the fifth StarScapes Student Showcase at Lansing Community College, we sincerely thank you for your efforts.

The StarScapes Steering Committee:

Mindy Wilson-chair

Aliyah Henderson-student representative

Janis Elmore-volunteer coordinator

Patti Ayers-logistics

David Shane-technology

Joe Esquibel-presenter workshop

Kelly Hekler-event coordinator

Anne Heutsche, Ed Bryant, Keri Litwiller

Program

See project descriptions for details of each project.

EVENT LOCATIONS

Poster Presentations will be in the **Gannon Commons and Highway** displayed throughout both days. Authors will be at their posters intermittently and at times indicated in the Program and Project Description section.

Demonstrations will be in the **Gannon Commons and Highway** at times indicated in the Program

Oral Presentations and vocal performances will be in the **Center for Engaged Inclusion** at times indicated in the Program.

Wednesday

December 6, 10 AM – 4 PM

10 AM to 12 Noon

Oral Presentations in the Center for Engaged Inclusion

Theresa Littleworth. *"It's Going Down"- vocal performance.*

Stephen Beegle. *The Cuban Missile Crisis through the eyes of Paul Yunker Sr.*

Gregory Brown. *Why We Move: A Look at the Life of an Internal Immigrant*

Daniel Witcher. *Ethnographic Presentation.*

Demonstration

Matt Tomlin. *Fly Like An Eagle*

Poster Presenters

LeeAnn DeYoung, Jacqueline Brys, Emily Buffington, Dean Sims, and Melinda Wilson. *Tracking Lyme Disease in Mid-Michigan using DNA Analysis.*

Bridget Eusebi, Madeline Pierron, Christina Minchello, Anteria Hernandez, Dhan Bhandari, Salina Murton, Gabby Hollis (Joe Esquibel's Biol 121 Class). *Testing if the acidity of soda dissolves teeth.*

Cordero Spencer. *Western Omelet.*

Stephanie Wells, Emma Ashley-Grose, Kendyl Ketelhut, Bailey Lorencen, Danii Mehney, Erik Pedersen, Abby Squires, Nathan Watson, Dana Zakovich. *How Close is Lyme Disease to Your Backyard?*

Linghao Zheng. *Stir Fried Prawns with Longjing Tea.*

12 Noon to 2 PM

Performance

Vickie Diebold's dance classes. *Beginning Jazz dance performances— Gannon Commons*

Oral Presentations in the Center for Engaged Inclusion – 1:15 PM to 2 PM

Chance Timm. *Outliers: Women in STEM.*

Jasmine Ford. *A's Ethnography*

Christopher Trimmer. *The History of Pasta and Meatballs In the United States*

Demonstrations

Matt Tomlin. *Fly Like An Eagle*

Andrew Haas, Nicholas Guthrie, Lasaun Brewer, Scott James. *Electric Field Visualizer.*

Poster Presenters

Travis Wetzel, Petersen Brian. *Vaccine for Lyme Disease*

Jessica Caicedo, Wenzlick Nicole. *The correlation between sleep deprivation and focus.*

Jessi Taylor. *The Impact of Participating in 4-H.*

Denise Warner, ESOL 075 class. *Defining and Sharing our Cultures.*

Christopher Hanson. *Erosion Potential in Grand Traverse County.*

2 PM to 4 PM

Art Display

Lucas Rakieten. *Unclad Iron Metal Sculptures.*

Oral Presentations in the Center for Engaged Inclusion

Charles DeSander. *Joe Louis A Cultural Knockout*

Nathaniel Gipson. *McDonaldization*

Erin Gamber. *Cross Cultural Comparison How Terminally Ill are Treated.*

Demonstrations

Jesse Lewter. *Physics - RC Car Radio Controlled Car with handmade motor.*

Forrest Clark and Mu Tau Chapter of Phi Theta Kappa. *Vertical Farming: A Viable Method of Agriculture or Not?*

Daniel Scherzer, Ashley, Justin, Ariel. *Gauss Rifle*.

Anthonee Caston, Neil Stump, Chase Frariy, Rachel Dersch. *Ion Thrusters*.

Poster Presenters

Andrew Gasparovich. *Pasties: From the UK to the Upper Peninsula*.

Robert Reid. *Pescado Yucateco*.

Olivia Shroll. *History of Apple Pie*.

Thursday

December 7, 10 am – 4 PM

The Gannon Commons and Highway

10 AM to 12 Noon

Art Display

Lucas Rakieten. *Unclad Iron Metal Sculptures*.

Demonstrations

Matt Tomlin. *Fly Like An Eagle*

Dominic Natoli. *dmac 232 movie trailer*.

Luke Sakkinen. *Spaghetti and Meatballs*.

Nick Stevenson. *History of Salsa*.

Oral Presentations in the Center for Engaged Inclusion

Jordane Mixon. *Home*

Silvia Strieff. *A Look Into the Vietnam War*

Jingzi Yu. *Food Project*

Poster Presenters

Emma Bostwick. *Pumpkin Pie*.

Racheal Campbell. *The Origin and History of Spaghetti*.

Allison Carrier. *Hot Potato Salad*.

Patrick Dickerson. *Chili Food Project*.

Jaclyn Herndon. *The Buddha Bowl*.

Carson Jones. *Anthropological Deconstruction of the Tamale*.

Ashlie Lentz. *Deconstruction of Eggplant Parmesan*.

Montana Reagan. *Spaghetti Carbonara and its Relation to the World.*

Tony Robbins. *The American Cheese Burger.*

Reed Robinson. *Wild Rice Soup.*

Veronica Swick. *Ruskie Pierogi.*

Tracy Chase. *Behaviors and Patterns with Children and Food.*

12 Noon to 2 PM

Art Display

Lucas Rakieten. *Unclad Iron Metal Sculptures.*

Demonstrations

Matt Tomlin. *Fly Like An Eagle*

Kaitlin Houghton. *Art sketches.*

Oral Presentations in the Center for Engaged Inclusion

Brooke Chwalek. *Hungary for Knowledge.*

Nick Villarreal. *Ethnography of my Aunt's (in-law) life.*

Elijah Marshall. *Facing culture shock- Coming to America.*

Tristian Walker. *Ethnographic Research: Perspectives of an "Alien"*

Poster Presenters

Natalia Engelhardt. *The History of Macaroni and Cheese.*

Gail Trusty. *Deconstruction of Native American Wild Rice Soup.*

2 PM to 4 PM

Demonstrations

Nathaniel Wedge, Joseph Abbawi, Dylan, Kobylarz, Chris Hendrickson. *Chladni Plate Resonance*

Oral Presentations in the Center for Engaged Inclusion

Uriah Cervantes. *Defying Industrialism: A Glimpse into the Amish Experience.*

Emma Bostwick. *Anthropology/Sociology Club Cultural Appropriation*

Nichole Djasek. *Through the Forrest... [The Story Of A Refugee]*

Ian Whipp, Jake Keenan, Riley Johnson. *Recycling at LCC: How Green are we?*

Poster Presenters

Rachel Byrnes. *The History of Pizza*

Britney Peteson. *Ethnographic Project*

Shari Singh. *My Favorite Food*

Makenzie Rose, Charity Rivers, Blake Reeves, Alexis Harris, and Payton Daggy.
Correlation between heart rate and caffeine.

StarScapes Fall 2017 Project Descriptions

Project descriptions are listed in alphabetical order of first author's last name. Times that authors will be presenting are indicated. Poster Presentations will be displayed throughout Wednesday and Thursday. Authors will be at their posters intermittently or at times indicated.

Beegle, Stephen. **The Cuban Missile Crisis through the eyes of Paul Yunker Sr.** For our Historical Narrative essay in my composition 1 class, I interviewed my grandfather about his time working on a nuclear missile base in New Mexico during the Cold war and specifically the Cuban Missile Crisis. This is his story. (Reading, Dec 6, 10 am to 12 pm)

Bostwick, Emma. **Pumpkin Pie.** This project represents the Anth 272 class at LCC: Food and Sustainability. Some of the topics that will be highlighted are related to pumpkin pie, as the main dish, but also the ingredients. This presentation will also have an emphasis on the cultural-ecological theory. (Poster, Dec 7, 10 am to 12 pm)

Bostwick, Emma and the Anthropology/Sociology Club. **Cultural Appropriation.** The Anthropology/Sociology club will be presenting about cultural appropriation. Some of the topic points that will be discussed are items like: clothing, symbols, and food. This presentation will also discuss the scale from cultural appreciation to cultural appropriation to cultural piracy. (PowerPoint, Dec 7, 2 pm to 4 pm)

Brown, Gregory. **Why We Move: A Look at the Life of an Internal Immigrant.** For much of this fall I have been compiling research on the internal immigrant - someone thrust into a new culture still within national bounds. Many of us can relate to this situation; I moved across the country myself! I can take a lot of time and strength for someone to adjust to an unfamiliar new home. This presentation will follow the story of one person's move to the mainland U.S.A. from Hawaii. (10 minute presentation, Dec 6, 10 am to 12 pm)

Byrnes, Rachel. **The History of Pizza.** This poster will be looking at the history of pizza and the origins of pizza's ingredients. This poster also looks at the description of ingredients social/cultural history of the dish and the ingredients. Also, considering the current relationships of power within the production, distribution, and consumption of this dish and the ingredients. (Poster Dec 7, 2 pm to 4 pm)

Caicedo, Jessica & Nicole Wenzlick. **The correlation between sleep deprivation and focus.** My partner and I will be presenting our poster about how lack of sleep decreases focus. (Poster Dec 6, 12 pm to 2 pm)

Campbell, Racheal. **The Origin and History of Spaghetti.** Spaghetti has always been a household favorite; But where and how did it originate? What do the ingredients of spaghetti add to its story? This presentation strives to shed light on the origin and history of this delicious dish. (Poster Dec 7, 10 am to 12 pm)

Carrier Allison. **Hot Potato Salad.** The potato was viewed as something only eaten by the poor, the prisoners, and the livestock, due to early difficulties of learning to cultivate them. It wasn't until World War 1 when potatoes were in abundance, that they were accepted in Germany as a sustainable food source. This recipe derives from the Germans preference of hot vinegar and bacon poured over vegetables. German Hot Potato salad combines the German love for pork and the South American introduction of the potato. (Poster Dec 7, 10 am to 12 pm)

Caston, Anthonee, Neil Stump, Chase Frariy, & Rachel Dersch. **Ion Thrusters.** Ion Thrusters are used in NASA and ionize the air to push itself and objects. We are building an ion thruster ourselves and making a poster on our explanation of what the ion Thrusters do and how we made it. (Demonstration Dec 7, 2 pm to 4 pm)

Cervantes, Uriah. **Defying Industrialism: A Glimpse into the Amish Experience.** An oral presentation supplemented by photos and illustrations to provide a brief ethnographic view of a Midwestern Amish community. An emphasis will be placed on family, ethics, and religion. This study is in accordance with Anthropology 270. (10 minute presentation Dec 7, 2 pm to 4 pm)

Chwalek, Brooke. **Hungary for Knowledge.** Discussed will be excerpts from the life of a young, educated Hungarian woman, detailing experiences from before and after her immigration to America. In addition, we will explore the challenges of being a part of the LGBTQ community, handling religious and cultural differences, and the journey of finding one's place in the world through exploration and education. (10 minute presentation Dec 7, 12 pm to 2 pm)

Clark, Forrest. **Mu Tau Chapter of Phi Theta Kappa.** Vertical Farming: A Viable Method of Agriculture or Not? The Mu Tau Chapter of Phi Theta Kappa Honor Society at Lansing Community College presents their Honors in Action project. This year's theme is Natural and Engineered. The project demonstrates the viability of solar-powered vertical farming. (Demonstration Dec 6, 2 pm to 4 pm)

DeSander, Charles. **Joe Louis A Cultural Knockout.** Reflection and retrospective of the life and impact of the former heavyweight champion of the world Joe Louis, and the significance he played in shaping both Michigan as well as the United States' History. (PowerPoint Dec 6, 2 pm to 4 pm)

DeYoung, LeeAnn. Jacqueline Brys, Emily Buffington, LeeAnn DeYoung, Dean Sims, and Melinda Wilson. **Tracking Lyme Disease in Mid-Michigan using DNA Analysis.** The purpose of our project was to identify if Lyme disease has migrated to mid-Michigan via ticks. This project was done in collaboration with the Organismal Biology students, who obtained the tick samples. We isolated DNA from ticks and ran several tests to determine if the *Borrelia burgdorferi* (Lyme disease bacteria) was present in our tick samples. Results will be discussed. (Poster Dec 6, 10 am to 12 pm)

Dickerson, Patrick. **Chili Food Project.** This poster will take an in-depth look at chili con carne. The poster will have a focus on the history of two specific ingredients, as well as the cultural impact of the two. Also, the impacts of this dish and the ingredients in today's society will be covered. (Poster Dec 7, 10 am to 12 pm)

Diebold, Vickie. **Beginning Jazz and Beginning Tap classes Dance.** Beginning Jazz Dance. Beginning Tap Dance." (Dance performance Dec 6, Dec 6, 12 pm to 2 pm)

Dyjasek, Nichole. **Through the Forrest... [The Story of a Refugee].** Come and learn what it was like for a young man and his family as they were forced out of their country and through many trails, fled to another. This is a story of struggle, hope, and success as this family put their faith in God. (PowerPoint Dec 7, 2 pm to 4 pm)

Engelhardt, Natalia. **The History of Macaroni and Cheese.** In my poster, I will have a brief description of the history of macaroni and cheese. I will include fun facts about America's favorite dish, like where it came from and how it came to be one of the most popular dishes we have today. (Poster Dec 7, 12 pm to 2 pm)

Esquibel Joe's Class. Bridget Eusebi, Madeline Pierron, Christina Minchello, Anteria Hernandez, Dhan Bhandari, Salina Murton, Gabby Hollis. **Testing if the acidity of soda dissolves teeth.** We've all heard that soda is bad for your teeth? But how bad is it really? 3 Sections of Biology 121 tested this question. We obtained extracted teeth from the greater Lansing area and then incubated them in different sodas for 3 weeks and measuring how much weight loss occurred. The results will astound you! (Poster Dec 6, 10 am to 12 pm)

Ford, Jasmine. **A's Ethnography.** I will be doing a presentation on my ethnography. I have done fieldwork with a woman from the West Indies, and the beauty behind her story is going to be told. (PowerPoint Dec 6, 12 pm to 2 pm)

Gamber, Erin. **Cross Cultural Comparison How Terminally Ill are Treated.** This presentation is a comparison of how different cultures care for the terminally ill. This is from an anthropological perspective that discusses different ways the terminally ill patient receives care. Each culture has several influences with medical treatment and approaches to the patient and their family. (10 minute presentation Dec 6, 2 pm to 4 pm)

Gasparovich, Andrew. **Pasties: From the UK to the Upper Peninsula.** Pasties are baked pastries usually filled with vegetables and meat. They are considered to have originated in Cornwall, England, but there have been many variations created by people all over the world; in Michigan, the most notable were the immigrant copper mine workers of the Upper Peninsula. (Poster Dec 6, 2 pm to 4 pm)

Gipson, Nathaniel. **McDonaldization.** The presentation will be going over the patterns of certain restaurant locations being near each other (why there is always a Walmart near Culvers). In sociology, this pattern can be explained by the term McDonaldization. A term that refers to our preference of efficiency, predictability, calculability, and control. This will be a PowerPoint. (PowerPoint Dec 6, 2 pm to 4 pm)

Haas, Andrew. Andrew Haas, Nicholas Guthrie, Lasaun Brewer, Scott James. **Electric Field Visualizer.** We will be presenting, as a capstone project for our physics class, a computer graphics based electric field visualizer. This will show a representation of the "force field" created by a given distribution of electric charge. There will also be information presented pertaining to the nature of Electric Fields. (Demonstration Dec 6, 12 pm to 2 pm)

Hanson, Christopher. **Erosion Potential in Grand Traverse County.** This geospatial study showcases which areas in Grand Traverse County have the greatest potential for erosion, which will be used to encourage the landowners of the overlapping areas to enroll into the conservation practices program. The slope of the land, land cover type, and soil composition were analyzed and calculated for the creation of this model. (Poster Dec 6, 12 pm to 2 pm)

Herndon, Jaclyn. **The Buddha Bowl.** This poster presentation comprises my research from a class project concerning the origins of the recently popularized Buddha bowl. Topics will include how the Buddha bowl was introduced to the United States, how the Buddhist region influenced the dish, if the recent increase of veganism within the United States has impacted the sales and distribution of turmeric and tofu, and what the sales and distribution of turmeric and tofu look like on a global scale, especially in China and India. Along with answering these questions, there will also be additional information regarding macrobiotic diets and food nutrition. (Poster Dec 7, 10 am to 12 pm)

Houghton, Kaitlin. **Art.** This is a collection of art that I have drawn from when I was a freshman in high school to a sophomore in college. I have been drawing since I could remember but these art pieces are the more notable and the ones that took the longest amount of time. (Demonstration Dec 7, 12 pm to 2 pm)

Jones, Carson. **Anthropological Deconstruction of the Tamale.** "Social/cultural history of the dish Social/cultural history of the ingredients. Current relationships of power within the production, distribution, and consumption of this dish and the ingredients on a global scale" (Poster Dec 7, 10 am to 12 pm)

Lentz, Ashlie. **Deconstruction of Eggplant Parmesan.** Semester project for Food and Sustainability. Cultural, historical, informational analysis of the dish. Additional focus of two ingredients. (Poster Dec 7, 10 am to 12 pm)

Lewter, Jesse. **Physics - RC Car-Radio Controlled Car with handmade motor.** A radio-controlled car utilizes numerous physics concepts including: electric circuits and Power; magnetic and electric fields; velocity and Acceleration; Torque; Centripetal Force; Friction. The key concept of this project was to design and build an electric motor from scratch. (Demonstration Dec 6, 2 pm to 4 pm)

- Littleworth, Theresa.* **"It's Going Down"** I will be singing, "It's Going Down" from the movie Descendants 2 (Vocal performance Dec 6, 10 am to 12 pm)
- Marshall, Elijah.* **Facing culture shock- Coming to America.** Talking about the challenges of immigrants coming to United States. I will be talking about a friend from Ghana who came to America for college and long-term employment. (10 minute presentation Dec 7, 12 pm to 2 pm)
- Mixon, Jordane.* **Home.** One word with different meanings. This about how a young man is finding his home. (Reading Dec 7, 10 am to 12 pm)
- Natoli, Dominic.* **Dmac 232 movie trailer.** In DMAC 232 (Post Production 2) one of the last projects is to take an old movie and make a trailer. My movie is called "The Great St. Louis Bank Robbery" made in 1959. (Demonstration Dec 7, 10 am to 12 pm)
- Peteson, Britney.* **Ethnographic Project.** The Eyes of an Outlier: from China to United States. (Poster Dec 7, 2 pm to 4 pm)
- Rakieten, Lucas.* **Unclad Iron.** I will be displaying metal sculptures that have been made out of recycled material. These sculptures will be in the form of plants, bugs and small scale everyday objects. I will have descriptions attached to the sculptures and an album containing previously made items to display. (Metal Sculptures Dec 6, 2 pm to 4 pm & Dec 7, 10 am to 12 pm & Dec 7, 12 pm to 2 pm)
- Reagan, Montana.* **Spaghetti Carbonara and its Relation to the World.** I am researching the history of the dish spaghetti carbonara. I will talk about the history of the ingredients and their origins. I will also talk about the power distribution and political forces involved with these ingredients on a global scale. (Poster Dec 7, 10 am to 12 pm)
- Reid, Robert.* **Pescado Yucateco.** "The popular Mexican dish Pescado Yucateco was first made in the sixteenth-century in Puebla Mexico. This famous Mexican dish that most all Mexicans know how to make has been around for more than 400 years and is one of the best meals that represents their culture other than foods like beans, tortillas, guacamole. I will present all the cultural background information and how the dish originated. This will be on my poster." (Poster Dec 6, 2 pm to 4 pm)
- Robbins, Tony.* **The American Cheese Burger.** Presenting the history and progression of the American cheese burger. (Poster, Dec 7, 10 am to 12 pm)
- Robinson, Reed.* **Wild Rice Soup.** A poster presenting and explaining the impact of wild rice, from the social ecological perspective, on the Native American's culture. The presentation poster will display history, facts, and cultural significance of wild rice. (Poster Dec 7, 10 am to 12 pm)
- Rose, Makenzie.* *Makenzie Rose, Charity Rivers, Blake Reeves, Alexis Harris, and Payton Daggy.* **Correlation between heart rate and caffeine.** Correlation between heart rate and caffeine (Poster)
- Sakkinen, Luke.* **Spaghetti and Meatballs.** Learn about the history of spaghetti and meatballs as well as its impact. Why are meat balls associated with spaghetti? Why meatballs and not chicken? Understand the reasoning behind spaghetti and meatballs and find out just how impactful this meal is on a global scale. (Demonstration Dec 7, 10 am to 12 pm)
- Scherzer, Daniel, Ashley, Justin,* **Ariel Gauss Rifle. We will be presenting a Gauss Rifle using neodymium magnets and metal balls on a track.** The Gauss Rifle is a series of magnets and metal balls that can launch a projectile using magnetic fields and Newton's Laws of motion. (Demonstration Dec 6, 2 pm to 4 pm)
- Shroll, Olivia.* **History of Apple Pie Apple pie is a staple in most American homes.** Whether the recipe has been passed down through family traditions or you're ready to start your own, the ingredients in apple pie have great significance. Today we will dive in and learn more about these special ingredients that make America's favorite dessert. (Poster Dec 6, 2 pm to 4 pm)

Singh, Shari. My Favorite Food. Becoming a "lunch buddy" with a 1st grader at Reo Elementary School helped me learn a little more about school lunch programs, my buddy's favorite food, rice, and just a bit about her home life as part of a refugee family from the Congo. (Poster Dec 7, 2 pm to 4 pm)

Spencer, Cordero. Western Omelet. This is a brief insight and impact of the ingredients of an omelette. The display will showcase a brief description of the dish. It will show the social/cultural history and current relationships with production of the ingredients. (Poster Dec 6, 10 am to 12 pm)

Stevenson, Nick. History of Salsa. My presentation covers the history of salsa and its key ingredients in the global market. I will go over the major producers of the ingredients such as tomatoes among others. (Demonstration Dec 7, 10 am to 12 pm)

Strieff, Silvia. A Look into the Vietnam War. This essay is a look into the Vietnam War from the perspective of an 18-year-old soldier, Terry Strieff. It describes before, during and after the war and the implications it had on his life. (Reading Dec 7, 10 am to 12 pm)

Swick, Veronica. Ruskie Pierogi. What is the origin of pierogi? Historically a peasant food, pierogi are now enjoyed by all classes having become not only a food staple, but also part of Polish culture. In this project, I analyzed the major ingredients, the cultural history of this dish and its current relationships of power globally. (Poster Dec 7, 10 am to 12 pm)

Taylor, Jessi. The Impact of Participating in 4-H. Presentation on how being active in 4-H has impacted me as an individual today. 4-H has taught me many learning aspects and lessons that have and will help me throughout life. (Poster Dec 6, 12 pm to 2 pm)

Timm, Chance. Outliers: Women in STEM. This presentation will explore why women in STEM fields are outliers, the experience of one woman's journey in a STEM (Science, Technology, Engineering and Mathematics) field, and why there aren't more women like her. The goal is to explore this perspective and examine how women in STEM can flourish. (10 minute presentation, Dec 6, 12 pm to 2 pm)

Tomlin, Matt. Fly Like An Eagle. Fly Like and Eagle is an exhibit that was developed for the State of Michigan's Department of Natural Resources and is currently installed at the Outdoor Adventure Center in Detroit. The exhibit allows park visitors to fly a virtual 3D eagle using Microsoft Kinect motion controls while viewing 4K drone footage of different regions around Michigan. This project was developed by students and lab faculty in LCC's Digital Innovation Institute. (Demonstration Dec 6, 10 am to 12 pm, Dec 6, 12 pm to 2 pm, Dec 7, 10 am to 12 pm, Dec 7, 12 pm to 2 pm)

Tracy, Chase. Behaviors and Patterns with Children and Food. I performed a study on children and their behavior/patterns with food. I went to an elementary school during their lunch times 12 times in a total of 9 weeks to get a good look. I made sure to look at what the children considered healthy foods and what the school itself considered healthy foods. (Poster Dec 7, 10 am to 12 pm)

Trimmer, Christopher. The History of Pasta and Meatballs. In the United States My presentation takes a look at how as a society we have Americanized Italian food in the United States. My presentation starts with the history of the ingredients incorporated into pasta and meatballs. We will see how the traditional pasta and meatballs transformed into large meatballs we think of today. (PowerPoint Dec 6, 12 pm to 2 pm)

Trusty, Gail. Deconstruction of Native American Wild Rice Soup. Deconstruction of Native American Wild Rice Soup and Fry bread. (Poster Dec 7, 12 pm to 2 pm)

Villarreal, Nick. Ethnography of my Aunt's (in-law) Life. My presentation will be an ethnography of my Aunt's (in-law) life, from growing up in Lebanon to moving to America, meeting her husband and raising her family in my hometown. I will provide information in detail on her experiences growing up in Lebanon, why she came to America and how she adjusted to the American way of life. The presentation will be carried out from the anthropological perspective, its goal to open the audience's minds and provide them with insight into the world of anthropology; namely, to get them

to recognize and reflect upon their own ethnocentric thinking. (10 minute presentation Dec 7, 12 pm to 2 pm)

Walker, Tristian. **Ethnographic Research: Perspectives of an "Alien".** I will be presenting my research findings following a personal interview with a relatively new American immigrant, their story, perceptions of their journey and new found the place of residence as well other cultural and interpersonal questions that help illuminate the colorful characteristics of a person whom many American citizens consider dangerous. (Reading Dec 7, 12 pm to 2 pm)

Warner, Denise ESOL 075. **Defining and Sharing our Cultures.** Immigrant and refugee students who are learning English as a Second or Other Language (ESOL) will share aspects of their home culture that may be unfamiliar to Americans. These students have been in the U.S. for one to five years and are enrolled in ESOL 075 Grammar and Paragraph Writing, Level 2. (Poster Dec 6, 12 pm to 2 pm)

Wedge, Nathaniel, Joseph Abbawi, Dylan Kobylarz, Chris Hendrickson. **Chladni Plate Resonance.** In this demonstration, you will be able to see a phenomenon called standing waves. Pouring sand on a Chladni Plate and manipulating the frequency, we will be able to visualize the patterns made by these waves. Different materials and frequencies will create different patterns. (Demonstration Dec 7, 2 pm to 4 pm)

Wells, Stephanie. Emma Ashley-Grose, Kendyl Ketelhut, Bailey Lorencen, Danii Mehney, Erik Pedersen, Abby Squires, Nathan Watson, Dana Zakovich. **How Close is Lyme Disease to Your Backyard?** This presentation revolves around the Deer Tick (*Ixodes scapularis*) and its growing invasion of Michigan. In recent years, these ticks having been seen in Fenner Nature Center (Lansing, MI). Deer Ticks are known vectors of Lyme disease, so tracking the number of ticks, and which ones carry Lyme disease is very important. We collected samples of ticks at Fenner to help calculate the current tick population and then turned them over to the Molecular Biotechnology class at LCC for testing. (Poster Dec 6, 10 am to 12 pm)

Wetzel, Travis & Brian Petersen. **Vaccine for Lyme Disease.** This presentation will address the bacterium *Borrelia burgdorferi*, which is the only cause of Lyme disease found in the United States. We intend to apply our understanding of adaptive immunity that we have learned about this semester in microbiology to address previous vaccines for *Borrelia burgdorferi*, and our own idea for a vaccine that we have designed. (Poster Dec 6, 12 pm to 2 pm)

Whipp, Ian. Ian Whipp, Jake Keenan, Riley Johnson **Recycling at LCC: How Green are we?** This presentation is an analysis of recycling practices at LCC. We surveyed the campus to see how effectively the campus recycles, considering factors from placement of recycling bins around campus and surveying students and faculty regarding their recycling practices on campus and at home. (PowerPoint Dec 7, 2 pm to 4 pm)

Witcher, Daniel. **Ethnographic Presentation.** This presentation is a part of our Ethnographic project for Cultural Anthropology. I interviewed an acquaintance from an old job and was able to learn a great deal. Here are some of the highlights. (10 minute presentation Dec 6, 10 am to 12 pm)

Yu, Jingzi. **Food Project.** I will give the description of ingredients. And talk about the social/cultural history of both of the dish and the ingredients. Also, mention about the current relationships of power within the production, distribution, and consumption of this dish or the ingredients on a global scale. (PowerPoint Dec 7, 10 am to 12 pm)

Zheng, Linghao. **Stir Fried Prawns with Longjing Tea.** In this presentation; I will introduce Stir Fried Prawns with Longjing Tea which is a traditional food in China for everyone, and two ingredients of them. (Poster Dec 6, 10 am to 12)

We gratefully acknowledge LCC Marketing, Media Services, Moving Services, Materials Management, Office of Student Life, Science and Math administrative professionals, and Offices of the President and Provost for providing their expertise and support.

Faculty Innovation Sponsors

We thank the following Faculty Sponsors for supporting students in their creative, imaginative, and interesting journey:

Kabeer Ahammad Sahib

Isis Arsnoe

Jenifer Bourcier

Edwin Bryant

Vickie Diebold

Robert Edwards

Janis Elmore

Joe Esquibel

Krishnakali Majumdar

Christopher Manning

Aaron Mundale

Alan O'Keefe

Kanagapushpam Padmanabhan

Sam Quon

Tony Robbins

Elizabeth Robinson

David Siwik

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Margo Whalen

Mindy Wilson