

STUDENT RESEARCH SYMPOSIUM

FALL 2018

November 30

Malcolm Center for Student Life



**MISSOURI
VALLEY**
C O L L E G E

Symposium Registration
Lobby, Malcolm Center for Student Life
1:00 p.m.-7:00 p.m.

Welcome and Opening Remarks

Bacon B

2 PM Dr. Diane Bartholomew, Vice President of Academic Affairs

Poster Session & Visual Art

Malcolm Center for Student Life

Posters Displayed from 4:30 -7:30 PM

Poster judging: 4:30-7:30 PM

Staffed session from 5:30-7:30 PM

Barbara Araoz, "Effects of Reinforcement on the False Memory Task in College Students"

Laurie Bird, "The Effect of Violent Video Games and Societal Issues on Youths"

Christopher Collins, "Are Juvenile Residential Facilities Effective in Reducing Recidivism?"

Brianna Dean, "Child Welfare System Contributing to Domestic Minor Sex Trafficking"

Madelyn Deigan, "Chemical and Physical Properties of Lip Balms: What Makes a Lip Balm Effective or Ineffective?"

Alexis Haney, "Juvenile Waivers to Adult Court"

Mich'lae Higa, "Minors being Considered Victims or Offenders"

Jessica Jarvis, "Intimate Partner Homicide"

Cheyenne King, "The Effects Social Media Has on Adolescent Relationships and Academic Motivation"

Mariah Kochell, "Sexual Activity's Impact on Self Confidence and Body Image"

Andrew Legg, "Are K-9 Units Effective Enough to be Sustained?"

Jocelin Linares, "Controversy Behind Dissociative Identity Disorder"

Evelyn Lucatero, "Motivation"

Josh Olson, "Perceptions of Marijuana"

Payton Purcell, "The Impact of Video Games"

Esmeralda Rojas, "The Inclusion of Juvenile Sex Offenders in the Sex Offender Registry"

Margaret Sitzes, "Darters (Percidae) in a Central Plains Stream: Expanding the Known Distributions of Habitat Specialists Characteristic of the Ozark Plateau"

Alexandrea Sterenberg, "Superstition and its influence on Confidence and Perceived Sports Performance"

Daniel Velasquez Wilson, "Internal Frost"

Poster Judges: Tiffany Bergman, Lee Jones, Hannah Von Hagel

Presentations

Session 1A: Caring for Minds and Bodies

Bacon A

2:15-2:55

Kali Christman, "Cisplatin: Kickin' Cancer's Butt Since 1965"

Courtney Cole, "What is Calcium?"

Anna Babiak, "Melatonin: An Act of Humanity?" (session chair)

Session Judges: Claire Schmidt, Pam Sebastian, Hannah Von Hagel

Session 2A: Economies of Technology

Bacon A

3:00-3:55

Jordan Hawkins, Darci Cline, Shayne Mallory & Sam Siron,

"Forever Flooring"

Sydney Downs, "Anaerobes and Antidotes: The Role of Methane"

JaMyrah Fredrick, "The World's Deadly Life-Saver: DDT"

Jan Jedlicka, "A High-Octane Talk: The History, Chemistry, and Future of Gasoline" (session chair)

Session Judges: Barbara Araoz, Claire Schmidt, Amollie Stoermer

Session 3A: The Power of Chemicals

Bacon A

4:00-4:55

Amaya Jimenez, "Addiction"

Emmie Ward, "All Things Adderall"

Wako Nabana, "Oxytocin and Over-Sanction"

Kimberley Ndlovu, "The Truth Behind Cannabis sativa (Marijuana): The Drug of the Future" (session chair)

Session Judges: Bryan Carson, Tamika Drake, Janie Morgan

Session 4A: Entrepreneurship Special Session

Bacon A

5:00-6:30

Nicholas Whitehead and Zac Guerrero, "A Business Plan for Underworld Bar & Grill in Marshall, MO"

Jared Zarate, Drake Nilges, Nate Reyes, and Beckley Obineke, "A Business Plan for The Horn in Marshall, MO"

Brittany Brown, Mary Flannery, Gabrielle Grimes, and Shadae Russell, "A Business Plan for RFB Salon and Spa in Marshall, MO"

John Brock, Austin Johnson, Justin Aguilar, and Jacob Carver, "A Business Plan for Smoothie King Franchise™ in Marshall, MO"

Grant Numrich and Max Rogers, "A Business Plan for GM Coffee Co. in Marshall, MO"

Javiel Cooper, Mathew Wittmayer, and Torenzo Vereen, "A Business Plan for Darkside in Marshall, MO"

Nicole Martorano, Pol Gazquez Font, Francho Laborda, and Camille Fontaine, "A Business Plan for Bar Code in Marshall, MO"

Session Judges: Christopher Roberds, Amollie Stoermer, Jae Steinkuhler

Session 1B: Communication: Bridges and Barriers

Bacon B

2:15-2:55

DaShonda Johnson, "Shattered"

Kayleigh Barnes, "Nonverbal Communication in Colombia:

The Communication Environment, The Communicator, & The Communicator's Behavior"

Liam Carney, "Smartphones, Social Media, and Anxiety" (session chair)

Judges: Bryan Carson, Christopher Libby, Christopher Roberds

Session 2B: Bodies in Transition

Bacon B

3:00-3:55

John Brock, "Current Concepts in Periodization of Strength and Conditioning"

Skyeler Crutchfield, "Silicon or Silicone: Wait, There's a Difference?"

Makayla Rodgers, "The Hunt"

Sarah Moehrlein, "Body Positivity in Today's Society" (session chair)

Judges: Daniel Dieringer, Sarah Gray, Jennifer Livengood

Session 3B: The Past in the Present

Bacon B

4:00-4:55

Makayla Rodgers, "The History, Use, and Impact of Vanillin"

Luke Rhodes, "Trying Something Unknown, in a Place We Technically Aren't, with Men Who Don't Exist: Tactics, Success, and Failures of the 5th SFG 1961-1963"

Alexis Livingston, "Nightingale's Influence on Nursing"

Katanna Davis, "Preservation Forge: Introduction to a Lewes Blacksmith" (session chair)

Judges: Tiffany Bergman, James McCrary, Erich Mueller

Session 4B: The Laws of Attraction

Bacon B

5:00-5:55

Alicia Hicks, "The Other Side"

Dakota Cantwell, "The Extra Ordinary"

Lakyn Lee, "Beauty and the Real Beast"

Lauryn Daxon, "Esters" (session chair)

Judges: Christopher Libby, Jennifer Livengood, James McCrary

Session 5B: Food, Health, and Wellbeing

Bacon B

6:00-6:55

Madison Kisner, "Serotonin: The Happiness Molecule"

Shanelle Tolley, "Carbon Dioxide and the Kola Nut"

Joi Reynolds, "Theobromine in Chocolate"

Haley Rauch, "Identification, Associations, & Management of Companion Animal Obesity" (session chair)

Judges: Diane Bartholomew, Katanna Davis, Erich Mueller

Session 6B: Dehumanizing Violence

Bacon B

7:00-7:45

Jay Pérez, "Busboy Poetry"

Luis Felipe Santos and Karla Giusti, "The Supremacist Influence in Hate Speech"

Léa Filali, "The Immorality of Torture" (session chair)

Judges: Katanna Davis, Janie Morgan, Devin Walker

Session 1C: Diamonds and Gold

Multipurpose Room

2:15-2:55

Ivailo Enev, "Gold Volatility"

Morgan Tebb-Rodger, "Is it Possible for a Business to Have a Positive Impact on the World and Make a Profit in a Consistent Yet Sustainable Manner?"

Monika Tshibanda, "Carbon: The Blood Diamond" (session chair)

Judges: Barbara Araoz, Janie Morgan, Lisa Rice

Session 2C: Ecology in a Changing Environment

Multipurpose Room

3:00-3:55

Caleb Pemberton, "Darters (Percidae) in a Central Plains stream: Expanding the Known Distributions of Habitat Specialists Characteristic of the Ozark Plateau"

Julian Barros, Jaclyn Davis, Elias Vaoifi, and Madison Vogelsmeier, "Neptune Marketing Plan"

Yarden Silberman, "Palmitic Acid and the Importance of Palm Oil"

Endurance Toro, "Analysis of Microbial Composition Differences between Rhizosphere and Non-Rhizosphere: Biphenyl Degradation, Polymerase Chain Reaction, and Agarose Gel Electrophoresis"

Judges: Tracey Hartley, Lisa Rice, Jay Rozema

Session 3C: Children, Parents, and Family Development

Multipurpose Room

4:00-4:55

Giordano Periera, "The Powerpuff Girls as an Example of Educational and Empowering Cartoon for Children"

JaMyrah Fredrick, "Society's Storybook Structuralism: Anti-feminism in Cinderella"

Sarina O'Donnell, "The Silent Baby Killer: Lead Poisoning" (session chair)

Judges: Jay Rozema, Pam Sebastian, Hannah Von Hagel

Session 4C: Making Sense of Crime

Multipurpose Room

5:00-5:55

Julia Wilson, "Lycopodium"

Lindsey McMillan, "Fix"

Karla Giusti, "The Influence of a Rape Culture"

Alyxus Parrish, "Ricin" (session chair)

Judges: David Fontenot, Sarah Gray, Daniel Dieringer

Session 5C: Spirits, Spirituality, and Transcendence
Multipurpose Room
6:00-6:55

Logan Eden, "Ethanol: More Than Just A Drunken History"

Lakyn Lee, "Counterclockwise"

Amajjah Ibrahim, "Flying on Faith"

Jessica Hufford, "Psilocybin: "The History, Controversy, and Therapeutic Effects of 'Shrooms'" (session chair)

Judges: Daniel Dieringer, Tamika Drake, Devin Walker

Closing Remarks & Awards Ceremony
Bacon B // 8:00 PM

Dr. Bonnie Humphrey, President, Missouri Valley College

Excellence in Student Research Awards (\$100)

Best Poster

Best Performance

Best Presentation

Abstracts

Araoz, Barbara-"Effects of Reinforcement on the False Memory Task in College Students" (poster session)

Powerful factors that influence human behavior rely on reward and punishment. The purpose of the present study was to determine whether the introduction of candy as a prize into a false memory task completion impacted final performance of subjects. A total of 81 participants performed the memory task on a computer and completed a questionnaire on effort and motivation to do well on the task. Results indicated that participants selected normal- distractor words significantly fewer times than words that were on the list of special-distractor words. The difference between the reinforcement and the no-reinforcement conditions was not significant.

Babiak, Anna-“Melatonin: An Act of Humanity” (session 1A)

Melatonin can treat more than insomnia. This hormone has the ability to treat cancerous tumors, cure restless children with autism, and help ease oxidative stress. I plan to define melatonin and its characteristics regarding the effects it has on the human body in foods and as a medicine. The more I researched into this molecule, the more I learned of its amazing capabilities. Melatonin is an incredible scientific discovery that has been overlooked in almost every aspect of research. I plan to illuminate the ways that this hormone has been utilized scientifically while explaining exactly how it benefits humans and humanity.

Barnes, Kayleigh-“Nonverbal Communication in Colombia: The Communication Environment, The Communicator, & The Communicator's Behavior” (session 1B)

Although Colombia is a country seen as the same as all of the other Latin, Central, and South American countries, it has a unique and distinct classification of nonverbal communication, especially when it comes to the communication environment, the communicator, and the communicator's behavior. Having spent two weeks in Bogota, Colombia last summer, I was able to experience these three specific elements of nonverbal communication first hand. In the bulk of this paper, statements will be made through the application of my own observations, and topics of study in the nonverbal field.

Barros, Julian, Jaclyn Davis, Elias Vaoifi, and Madison Vogelsmeier, “Neptune Marketing Plan” (session 2C)

This presentation will conduct a marketing plan for Nep-Tune's company, the products Nep-Tune distributes, the environmental analysis, and projected profits. The goal of this presentation is to create a layout overview for the marketing plan and conduct a visual process of our situational analysis, marketing strategy and mix, financial projections, stages of the product life cycle, implementation plan, and the evaluation and control methods.

Bird, Laurie-“The Effect of Violent Video Games and Societal Issues on Youths” (poster session)

Parents and adults thought the media had been the reason for children and teens to act out their aggressive emotions. In previous studies, it was shown that video games linked with societal issues such as family environment and mental health had played a major role in

youth aggression and violence. Between 2003 and 2011, Grand Theft Auto and Call of Duty: Black Ops sold more than \$3.5 billion in games. Those games had been associated with real-life crime. In 2012, the Sandy Hook Elementary school shooter had played Call of Duty and researchers found it had been a factor in the shooting. The literature review will discuss antisocial personality traits and depression symptoms that were correlated with exposure to violent video games and how it affected youth behavior.

Brock, John-“Current Concepts in Periodization of Strength and Conditioning” (session 2B)

Periodization is a concept that refers to the division of the training process toward specific phases (Lorenz, 2015). Manipulation of the variables within these different phases –sets, repetitions, and load– is necessary to bring about the desired adaptations within that period. This presentation discusses the current concepts within periodization and compares linear periodization with the 2018 fall football workout program of the Missouri Valley Vikings.

Brock, John, Austin Johnson, Justin Aguilar, and Jacob Carver, “A Business Plan for Smoothie King Franchise™ in Marshall, MO” (session 4A)

We are looking to open a Smoothie King™ franchise in Marshall, Missouri. We want to provide fresh-blended, fruit-based, smoothies for improved diet, performance, and wellness. We would be the only Smoothie King™ within a 50 mile radius with no major smoothie competition within the town of Marshall. We are looking for financial assistance to aid with start-up costs.

Brown, Brittany, Mary Flannery, Gabrielle Grimes, and Shadae Russell, “A Business Plan for Salon and Spa in Marshall, MO” (session 4A)

After living in Marshall for 3 years, we found a lack in salon and spa services. We found a problem where Marshall citizens and MVC students could not get their needs filled locally. RFB is here to fill the market gap and provide a place where our customers can get health and beauty needs met for an affordable price. RFB wants to be the one-stop-shop to all Marshall residents. To do this, we need funds to begin this venture and allow the customer needs to be met.

Cantwell, Dakota—"The Extra Ordinary" (session 4B)

My creative project focuses on the romantic relationships that develop between two ordinary people and situations surround these types of development. "The Extra Ordinary" focuses on the summer romance between Alec and Marina as Alec looks back on his time with her. My thesis argues responsibility of the author of young adult literature to present healthy characters and relationships to help promote the same in the readers and their interactions as fan bases and as individuals, something I seek to do with my own writing.

Carney, Liam—"Smartphones, Social Media, and Anxiety" (session 1B)

In our early 21st century, mainstream US societies young adults have unlimited and instant access to the world using the smartphones that seem to be attached to our hand. Smartphones allows for instant gratification as well as instant disappointment. Our dependence upon this begs the increasingly urgent question of the correlation between instant access to social media and the sharp increase in anxiety diagnosis within young adults. We are becoming so taken by the pleasure that social media provides that we aren't willing to give up this pleasure and look at the effect it's having on us. Now, it seems that the increased dependency and addiction to social media has caused a increased level of emotional distress and decreased ability to handle stress and anxiety among young adults born between 1998 and 2004.

Christman, Kali—"Cisplatin: Kickin' Cancer's Butt Since 1965" (session 1A)

Cisplatin is an anti-cancer drug that was found accidentally. Within my work I plan to dive into its history and development over time as well as its effect on science today. These past few years cancer has played a major role in my friends and family's life, so it was only right to continue my research on this topic. Cisplatin may not seem like the world's most famous drug, but I was able to see how much it impacted society with my research. It's a drug that is often looked over and unheard of, but it carries its weight in the world of science and that's something I would like to show everyone.

Cole, Courtney—"What is Calcium?" (session 1A)

In the year 1808 the great man of Humphry Davy discovered the great mineral of calcium which is now one of the most important minerals that we need to help survive. I am going to discuss what the term

calcium mean and what truly is calcium. Calcium is used in multiple ways such as helping the bones store strength and minerals; without calcium the body would not exist. The body uses chemicals to help push its existence such as opening channels allowing certain cells to pass or even allowing bones to form. Calcium also helps to produce some metals that we use in everyday life such thorium and uranium. There are multiple ways calcium is used and it is vitally important to our body and society itself.

Collins, Christopher-“Are Juvenile Residential Facilities Effective in Reducing Recidivism?” (poster session)

The purpose of study was to evaluate whether juvenile residential facilities were effective in reducing recidivism. Historically juveniles have been incarcerated to rehabilitate and prevent future offenses. The literature review showed that the juvenile justice system was flawed in the way that juveniles were processed and released. Juveniles often committed new crime upon release due to learned behavior while incarcerated, lack of proper support towards their needs, and reentering a negative environment. Alternatives to incarceration such as probation, restorative justice programs, or community support and involvement had not been used to their best advantage. Incarceration had not been the best way to help juveniles and if not changed would continue to have high recidivism rates.

Cooper, Javiel, Mathew Wittmayer, and Torenzo Vereen, “A Business Plan for Darkside” (session 4A)

Darkside is a small upcoming virtual reality gaming experience whose mission is to provide the local and surrounding areas a new world of gaming. We are looking for a business loan of 250,000 dollars to start and launch ourselves into this vastly expanding market of VR gaming. In Missouri as of the end of 2018 there will only be three other VR gaming related businesses. Services provided will be a home-style 5-room set-up with systems in each room and for those waiting, a comfortable lounge area to play regular games. Come have fun on the Darkside.

Crutchfield, Skyeler-“Silicon or Silicone: Wait, There's a Difference?” (session 2B)

Have you ever wondered the importance of the element silicon? Maybe you know of its use as a semiconductor. You could possibly recognize it due to the show Silicon Valley. There is a chance you are

aware of silicon's more practical uses in compounds used to make glassware; or you could be more interested in Hollywood's favorite use- breast implants. Whatever your knowledge of the element, there is no doubt it is important for everyday life, and I am sure there's more to it than you know.

Daxon, Lauryn-"Esters" (session 4B)

One of the most historically used molecules in Organic Chemistry are Esters. It is a functional group commonly used in organic chemistry. In this presentation, I will discuss esters from its chemistry, biological and historical based context. I will also discuss current research done on esters and how they affect the environment. Moreover, I will show a video of me conducting an experiment that shows how esters are made and allow my audience members to smell the aroma esters give off. At the end of this presentation I hope my audience members gain a better understanding of esters.

Davis, Katanna-"Preservation Forge: Introduction to a Lewes Blacksmith" (session 3B)

Over the summer, I was given the opportunity to intern at the Lewes Historical Society in coastal Lewes, Delaware. In the beginning, I spent my days in cemeteries and at grave sites, using GIS to map out the areas, as well as recording all information I could find. Some days were spent organizing archives, leading students from nearby schools on field trips and guided tours, and coordinating events. My end project involved spending many days at the local blacksmith shop, Preservation Forge. I documented historical artifacts, as well as blacksmith John Ellsworth's own works, through video and audio recording. With some of the footage captured, I produced a short film that is now used by the Lewes Historical Society to further promote their hidden historical treasures of Lewes.

Dean, Brianna-"Child Welfare System Contributing to Domestic Minor Sex Trafficking" (poster session)

Domestic minor sex trafficking (DMST) became prominent in the United States in 2000 and has steadily increased. At least 100,000 DMST victims and about 325,000 more children in the United States were at risk of victimization into DMST. To understanding how and/or why the child welfare system contributed to an increase in domestic minor sex trafficking plays a key role in finding solutions. Multiple areas of DMST such as risk factors that caused a minor to become

involved with the trade and the laws associated with DMST and the child welfare system brought about awareness to society and helped lower the number of minors who fell victim to DMST. The literature review discussed that the child welfare system was not as helpful as it could have been and could have actually contributed to increase the number of minors forced into the sex trade.

Deigan, Madelyn—"Chemical and Physical Properties of Lip Balms: What Makes a Lip Balm Effective or Ineffective?" (poster session)

This study will analyse the chemical and physical properties of lip balms of four different lip balms; Yes To, Blistex, Shea Moisture, and Chapstick. The ability of the products to withstand variation in temperature, tendency for bacterial growth in the lip balm tubes, and people's preferences for products will be determined. Many ingredients in lip balms are known allergens and carcinogens, which influences the effectiveness or ineffectiveness of a product. With the use of cosmetics and lip balms continuing to rise, it is crucial to understand the potential health risks associated with such products as they could have detrimental effects on population health and the economy.

Downs, Sydney—"Anaerobes and Antidotes: The Role of Methane" (session 2A)

Since its discovery in the marshes of the Swiss Alps in 1776, methane has played a pivotal role in the food, fuel and fiber industries of the world. Methane, a major constituent of natural gas, is an effective and efficient source of fuel for our homes and automobiles. Under elevated pressures and temperatures, methane can be produced via anaerobic respiration by organisms, abiotic matter, and/or synthesized in a laboratory setting. Most commonly recognized for its contribution to global warming, initiatives are being taken to reduce methane emissions—from animal food additives to recapture efforts!

Eden, Logan—"Ethanol: More Than Just A Drunken History" (session 5C)

The purpose of this presentation is to investigate the molecule ethanol. I will highlight the early discovery, and how it has developed into the the multipurpose molecule we have today. I will chronologically go through the development of ethanol as a single-use substance to one that is extremely versatile as it covers a wide range of uses including alcoholic beverages, fuel, medical practices

and drugs, and artillery. My goal is to illustrate to the audience the importance the molecule ethanol has played in human history and the impact that it has on society today. It will become evident how without it, the world would be a very different place.

Enev, Ivailo-“Gold Volatility” (session 1C)

I have decided to analyze the price of gold and the factors determining it. Since the audience is not familiar with the subject, there is a brief introduction- what is gold, how do we use it, physical features of it. Once the basis was layered, I began explaining the financial features of gold and how the market is using it. There are several key commodities that I have made a comparison with, seeking a possible correlation. The last part of my presentation is about the future of gold and cryptocurrencies

Filali, Léa-“The Immorality of Torture” (session 6B)

The illegality of torture is justifiable by the immorality of the action. While the use of torture dehumanizes the victims as well as the torturers, it does not ultimately guarantee the wanted information disclosure. The specific situations to have imminent accurate information through the victim, to save innocent lives, seems more impractical than physically possible. Rather than legalizing it, the act of torture should still remain illegal, where an individual making use of it, would be put under scrutiny under a jury to verify the moral justification behind the act. Whereas exception can happen within a rule, the exception itself does not need to become the rule.

Fredrick, JaMyrah-“Society’s Storybook Structuralism: Antifeminism in Cinderella” (session 3C)

Sexism is deeply rooted in American society, even in places as innocent as fairy tales. Through a close reading of the Grimm Brothers’ Cinderella, this essay will analyze how anti-feminist has been woven into everyday objects such as bedtime stories. The use of sexism can be found throughout much of the fairy tale, that has taken a life of its own and become a large part of childhood life. Cinderella is one of the many fairy tales that have been passed down throughout many generations, however, because of its toxic values, it is extremely dangerous to blindly allow the younger generation to indulge in them. This essay will explain in-depth, why that is so.

Fredrick, JaMyrah-“The World’s Deadly Life-Saver: DDT” (session 2A)

Dichlorodiphenyltrichloroethane or as it is most commonly known, DDT, is credited to have single-handedly saved 500 million people in third world countries such as Uganda. The very same pesticide caused the DDE epidemic in the United States. How can a chemical be so helpful in one area of the world and so hurtful and negative in the other? This presentation will give an in-depth look into dichlorodiphenyltrichloroethane, how its discovery came to be, its benefits, and it’s deadly side effects that lead to it being banned into almost every country in the world.

Giusti, Karla-“The Influence of a Rape Culture” (session 4C)

With a focus on Brazilian culture, my research argues how nowadays it is hard to be a woman and asks why Brazilians think assault is usually the victim’s fault and how to make progress on Brazilians rape culture. When we listen to a song or watch a movie we may think that what they say is not important but it has an influences. Brazilian culture has a reputation for music that often talks about sex and how a woman needs to show her body to win some attention. In result, kids grow up listening and so that is what they think is correct. Rape culture is present in the kids' education and in our daily activity. And that results in fear and insecurity.

Haney, Alexis-“Juvenile Waivers to Adult Court” (poster session)

The purpose of the study was to examine the perspectives of whether or not juveniles should have been tried in adult court. Juveniles who committed violent crimes had been waived into adult criminal court based on the severity of the criminal act. Key factors considered when juveniles were waived to adult court included a juvenile’s race, age, brain development, area they had come from, crime, and the political environment. Prosecutors and judges have not always followed recommended procedures for waiver into adult court, although different states follow different procedures in the waiver process. Juveniles have been unfairly processed at times.

Hawkins, Jordan, Darci Cline, Shayne Mallory and Sam Siron, “Forever Flooring” (session 2A)

Our presentation will be a mock product that we were given to come up with a marketing plan to sell our product to our consumers. Throughout our presentation you will learn about our product and the

various steps and processes as a marketer you go through to get your product on the market. During this presentation we have prepared this to be presented to our marketing team.

Hicks, Alicia-“The Other Side” (session 4B)

We all have had that relationship that we jumped into before we get to know them. This is that story. We see a couple that bump into one another and go too fast into the relationship. All in a rush, they get married. Then their true natures emerge, and their lives are turned upside down and their world crashes. This happens to people all around the world. Symphonic Variation, Merry-Go-Round, Joe Hisaishi.

Higa, Mich'lae-“Minors being Considered Victims or Offenders”
(poster session)

Domestic minor sex trafficking (DMST) had been on the rise throughout the United States. One of the questions which remained unanswered was, were minors arrested for prostitution actually offenders or were they victims specifically of DMST. Traffickers or pimps recruited minors into human sex trafficking because they were easy targets. Often prosecutors charged minors who were arrested for prostitution as offenders rather than investigating the possibility of sexual exploitation of the youths arrested. Most states had no minimum age requirements in their prostitution statute and therefore minors were often adjudicated as delinquents. Victims of human trafficking experienced dual victimization, in order to have counteracted with those traumas victims were needed more protection.

Hufford, Jessica-“Psilocybin: “The History, Controversy, and Therapeutic Effects of ‘Shrooms’” (session 5C)

Religion has been a significant human experience since the beginning of humanity. Several methods of communicating with a higher power have been utilized across civilizations, from prayer, to meditation, to the utilization of psychoactive drugs to alter mindset. One such drug is psilocybin, the molecule found in several species of “magic mushrooms” known to alter perspective and cause hallucinogens. This presentation will delve into the structural components of the molecule, how it affects the brain, the history of its usage, the controversy surrounding it, and studies examining possible therapeutic applications.

Ibrahim, Amajjah-“Flying on Faith” (session 5C)

I created a Contemporary Modern solo on myself, entitled “Flying on Faith.” This solo has a deeper meaning to me; I went through a lot my senior year of High School. The only thing that kept me pushing was friends. I lost my faith in dance and also in my body. This dance represents on how I pushed through that tough time.

Jarvis, Jessica-“Intimate Partner Homicide” (poster session)

Intimate Partner Homicide Abstract Intimate partner violence had been a growing issue for both men and women of differing ages. Different typologies had played a major role. Motivators that contributed to intimate partner homicide had been aggression, jealousy, attachment, infidelity, and fear. Juodis, Starzomiski & Woodworth (2014) noted in the United States from 2000-2004 that 1,750 intimate partner homicides had transpired (p. 299). They further noted that 87% of homicides had involved some form of premeditation. The purpose of the study was to determine whether the sample supported the hypothesis that women had been more susceptible to homicide due to intimate partner violence.

Jedlicka, Jan-“A High-Octane Talk: The History, Chemistry, and Future of Gasoline” (session 2A)

This presentation will focus on the historical importance, the basic chemical characteristics, and the future use of gasoline and its main components. The invention of the internal combustion engine has created a demand for petrol-based products and changed the ways of traveling for humans. Nowadays, gasoline production is a key part of the petrol industry. While simple in structure, this octane-based fuel has played a complicated role in the history and economy of many regions of the world. Understanding the fundamental chemistry as well as social consequences connected to gasoline should help to better cope with the looming shortage of fossil fuels.

Jimenez, Amaya,“Addiction” (session 3A)

Song by Billie Eilish entitled Lovely ft. Khalid This piece of artwork is a demonstration of what addiction can do to you. I will be presenting this demonstration through a solo I have entitled Addiction. I have created this Modern Solo in my modern 1 course with Janie Morgan. The song I chose suggests the addiction of love to a toxic person and the solo I have created compares that to the addiction to drugs. The addiction to illegal drugs could lead to incarceration and the addiction

to a person out of love can make you feel trapped just like if you were to be put in a prison. It's about the silencing of females in particular, in a toxic relationship and how it is possible to break free from addiction.

Johnson, DaShonda—"Shattered" (session 1B)

Song by Sevyn Streeter. The piece that I will be demonstrating is about a broken relationship. When things are going good, they are wonderful, but when things are bad, it's toxic. The relationship is not healthy when all you do is put the blame on one another and point fingers and are fighting constantly. I will be presenting my dance solo that was created while participating in modern 1. The piece is called "Shattered." I created this piece based off a similar situation I experienced. My past relationship wasn't all bad, but it wasn't good either. We were both mentally, emotionally, and spiritually drained from the relationship. We decided to let go and find ourselves.

King, Cheyanne—"The Effects Social Media Has on Adolescent Relationships and Academic Motivation" (poster session)

Adolescents' lives have become filled with social media. Over the past decade, advances in technology had made social media the primary means of communication between adolescents. The effects of this non-verbal communication on relationships between family, friends and intimate partners has impacted everyone. Smartphones have become important in adolescent lives. Over three quarters of adolescents had a smartphone, with social media applications on their phone. Adolescents who spent more time on social media than interacting face to face found it difficult to have face to face relationships. Social media affected adolescents academic motivation, their life satisfaction, and body image. The study conducted highlighted social media on adolescent relationships and academic motivation

Kisner, Madison—"Serotonin: The Happiness Molecule" (session 5B)

What is it that you associate your happiness with the most? Netflix binge watching? McDonald's french fries? Pug puppies? I'm here to tell you that your happiness actually all relies primarily on a singular molecule. That happy molecule is serotonin. In order for your body to even feel the emotion happiness, serotonin has to be present within the chemical balance of your brain. In my presentation I hope to educate individuals on the properties of serotonin and just how important it is to human existence.

Kochell, Mariah-“Sexual Activity’s Impact on Self Confidence and Body Image” (poster session)

The purpose of this research was to study the self confidence, body image, and sexual activity of individuals to better understand how sexual activity impacts self confidence and body image. Participants in this study were recruited through convenience sampling, and completed a survey reporting on their sexual activity, self confidence, and body image. The results show that those who are more engaged in sexual activity have higher self confidence than those who are not as engaged in sexual activity. The results also show a significant relationship between those with low self esteem and low body image.

Lee, Lakyn-“Beauty and the Real Beast” (session 4B)

Stockholm Syndrome is a victim feeling trust, loyalty, sympathy, or affection towards their captor in cases of kidnapping. In Stockholm Syndrome- Causes, Symptoms, Cases and Treatment, Sandra Hayes explains how Stockholm Syndrome causes hostages to “identify closely” and “develop an alliance” with their captor as a coping and survival strategy. There are four components that lead to the development of Stockholm Syndrome. Component #1: There has to be a perceived threat to the victim’s existence. Component #2: A victim has to experience small acts of kindness from their captor. Component #3: A victim must be isolated from all perspectives other than that of their captor. Component #4: The victim must feel an inability to escape.

Lee, Lakyn-“Counterclockwise” (session 5C)

“Counterclockwise” is a modern dance piece that addresses a burning desire to turn back time, but there is ultimately a haunting, oppressive inability for the soloist to do so. “Clockwise” is performed to the song “The Night We Met” by Lord Huron. The song peaked in popularity after its debut in the Netflix original show Thirteen Reasons Why. There are many parallels between the plot of the show Thirteen Reason Why and the modern dance piece “Counterclockwise.” They both inflict similar emotions on audiences through a beautiful journey of loss, heartbreak, and grief. “Counterclockwise” is centered around a simple wish to turn back the clock.

Legg, Andrew-“Are K-9 Units Effective Enough to be Sustained?” (poster session)

The purpose of this study was to identify K-9 units of all backgrounds

in the criminal justice field and to evaluate the level of effectiveness of K-9s in their respective occupation. The K-9 unit is not limited to police, it includes different agencies from the city, county, state, and federal levels. Occupations of the K-9s presented in this study included basic patrol, security detail, narcotics detection, explosives detection, arson investigation, hazardous material detection, therapy, forensic interviewer, trauma relief, and cadaver detection. The study was conducted to further educate on the job of a K-9 unit.

Linares, Jocelin—"Controversy Behind Dissociative Identity Disorder" (poster session)

Is Dissociative Identity Disorder real, and if so why is it so controversial? Dissociative Identity Disorder (DID) is often faked in court cases by pleading not guilty for reasons of insanity and is also inaccurately displayed in the media, but DID is a real mental illness marked by traumatic events that lead an individual to dissociate. When displayed in the media there is emphasis on making individuals with DID seem psychotic or dangerous, but these tend to leave out a lot of background information. These people aren't just born this way; something severely traumatic had to have happened to them to lead them to this point.

Livingston, Alexis—"Nightingale's Influence on Nursing" (session 3B)

Florence Nightingale was integral to the public's perception of nurses; she made major contributions to the practice of nursing and the education of nurses. My research will highlight the significant influence that Ms. Nightingale had on the way nursing is practiced, along with detailing how we still use the methods she introduced nearly two hundred years ago today in the nursing practice. Ms. Nightingale introduced standards for sanitation, hospital conditions, and educational requirements for nurses by establishing training programs and the first nursing college. Florence Nightingale made a positive and lasting impact on nursing.

Lucatero, Evelyn—"Motivation" (poster session)

Motivation plays a role in many aspects of life. This study specifically investigates academic motivation, and what motivates athletes each in their respective sport. A total of 100 MVC students participated in the study, 80 athletes and 20 non-athletes. The survey helped ascertain the difference between athletes that are starters (29) versus non-athletes (51), and how they think about their motivation towards their

respective sports. Pearson's r and t-test analysis showed differences in how athletes and a non-athletes think about academic motivation. Additionally differences between females and males were also shown to be in both athletic motivation, and academic motivation.

Martorano, Nicole, Pol Gazquez Font, Francho Laborda, and Camille Fontaine, "A Business Plan for a Bar in Marshall, MO" (session 4A)

Our company's main service will be to welcome people who want to hang out and party in a safe and fun environment. Not only that, our bar it is also a space to have a good time in a nice location while drinking fancy cocktails and eating some of our finest appetizers. We need your monetarial cooperation to open the next big thing in Marshall.

McMillan, Lindsey-"Fix" (session 4C)

"Fix" is a creative work that takes place through the eyes of a young girl in the midst of losing her innocence. The unnamed thirteen year old protagonist, while playing hooky from school one day, is sole witness to an event that alters the rest of her life. The loss of her family unit and a twenty year struggle with drugs and alcohol, the once young protagonist grows and learns from the hardships life has thrown at her.

Moehrlein, Sarah-"Body Positivity in Today's Society" (session 2B)

I know girls that skip one meal a day to fit into their size zero jeans the next day. I know boys that go to the gym just to keep up their well-trained six-pack. There's nothing more devastating than not being okay with yourself and the way you look. That's why we should start now to be kinder to others, but also ourselves: a speech about why it's necessary that society changes its way of thinking about bodies.

Nabana, Wako-"Oxytocin and Over-Sanction" (session 3A)

Oxytocin, which was discovered by Henry H. Dale in 1909, is known to be an essential substance for pregnancy and milk. Also, not only does it exist in female brains but studies suggests that it exists in male brains as well. In addition, recent studies found that Oxytocin works for bonding among people. Because Oxytocin makes our bonds as a member of society stronger, people become more sensitive about rules. Sometimes increasing Oxytocin levels can mislead us negatively. If we notice how Oxytocin works for better or worse, we can live real life much better than before.

Ndlovu, Kimberly-“The Truth Behind Cannabis sativa (Marijuana): The Drug of the Future” (session 3A)

Marijuana, pot, weed, and kush are among the many names of a drug that has long been used by many civilisations around the world, both in the present and in the past. It has been used for clothing, food and medicine- some of the basic human needs. Due to racist and xenophobic reasons, marijuana use was banned in the US. However, modern science is realising the many medicinal uses of the plant and many states in the US are starting to legalise the medicinal and recreational use of marijuana. The main chemical, THC, is responsible for some side effects associated with the use of recreational marijuana, although these can be compared to those of legal drugs like alcohol, tobacco and caffeine.

Numrich, Grant and Max Rogers, “A Business Plan for GM Coffee Co. in Marshall, Missouri” (session 4A)

In our presentation we will be proposing the newest business in Marshall, GM Coffee Co. GM Coffee Co is the newest, full service coffee shop that prides itself on providing 100% fair trade products of the highest quality. In addition we seek to provide a cool, calm, relaxing environment that anyone can be a part of. In order to make this happen, we are seeking funding to assist our start up.

O’Donnell, Sarina-“The Silent Baby Killer: Lead Poisoning” (session 3C)

"The Silent Baby Killer: Lead Poisoning" will introduce the history of lead and how it was initially discovered. We will discuss the scientific makeup of lead, how lead poisoning was discovered, and how it affects the body in various levels of exposure. This presentation will discuss why lead poisoning affects children more than adults, it's symptoms, and why lead poisoning is largely overlooked in children. We will then look into how lead poisoning is being prevented and what we can do to prevent lead poisoning in ourselves.

Olson, Josh-“Perceptions of Marijuana” (poster session)

The purpose of this study was to analyze the perceptions of marijuana use for recovery and performance. The data was collected from male (n= 57) and female (n=41) during the fall semester of 2018. Most of the participants were primarily from the PY 100 course. The surveys asked how often participants would smoke marijuana and for what reasons. This survey allowed comparisons between smokers and non-

smokers. Interestingly, 48.6% of smokers said that marijuana should be a banned performance enhancing drug. Non-smokers feel that marijuana is not that bad to take, they just choose to not use it.

Parrish, Alyxus-“Ricin” (session 4C)

The history of Ricin along with the uses of it will be analyzed, as well as the impact it has had on society. Ricin, is a highly toxic plant-derived toxin, produced by the castor bean plant (*Ricinus communis*). It is considered a bioterrorist. One of major concern since it attracts attention of those intending criminal, terroristic and military misuse. As well as potential weapon in biowarfare and bioterrorism due to its pronounced toxicity, high availability, and ease of preparation. Due to these facts the Centre for Disease Control and Prevention (CDC) has categorized Ricin to be a category B (Bio-terrorism) agent.

Pemberton, Caleb and Margaret Sitzes-“Darters (Percidae) in a Central Plains Stream: Expanding the Known Distributions of Habitat specialists Characteristic of the Ozark Plateau” (session 2C)

The Salt Fork Creek is a second-order stream that drains into the Blackwater River in southern Saline County. This river's benthic habitat is dominated by silt and clay substrates with areas of gravel and cobble, and the water column has high sediment content. Saline County is unique in that it represents a transition zone between the Glaciated Plains and Ozark Plateau. The purpose of this study is to expand the known distributions of six darter species potentially occurring in the Blackwater River watershed. Five of the six species of possible occurrence were found.

Pérez, Jay-“Busboy Poetry” (session 6B)

Using free verse poetry, the experience of being queer and living in Missouri is expressed in the pieces that fall under a series titled Busboy poetry. Throughout the pieces the cultural differences are explored between the world of a young queer poet and those around them. Issues such as racism, homophobia and coming out to family, friends and strangers are touched upon.

Periera, Giordano-“The Powerpuff Girls as an Example of Educational and Empowering Cartoon for Children” (session 3C)

How can a simple cartoon be either empowering and educational to children? This research will look upon the answer of this questions based on the 1998 cartoon "The Powerpuff Girls" by Craig McCracken. Understanding the audience and how television used to work in the early 2000s is essential to settle up the discussion on how this show

figured how to be one to look upon to, the concepts brought by "The PowerPuff Girls" will also be analyzed if are applicable to different kids TV shows that also may be both empowering and educational.

Purcell, Payton—"The Impact of Video Games" (poster session)

The purpose this study was to determine if video games had any sort of impact on someone's life. The social lives of those that played video games with those that didn't and the different types of consoles played and their impact on social life, sleep, and school interaction were compared. A survey was used to compare the answers of both video game players and non-video game players and included their interactions in school and with others as well as some demographic variables. As a result, video games have impacts on both social and daily life.

Rauch, Haley—"Identification, Associations, & Management of Companion Animal Obesity" (session 5B)

Approximately 44% of dogs and 50% of cats are overweight or obese. This metabolic disorder is the result of an imbalance of energy intake and expenditure. Some pets are predisposed, yet other factors play a role in the onset of obesity, including diet, exercise, and neutering. There are many effects associated with obesity, such as shortened lifespan, associated diseases, and joint pain. Routine evaluation of obese pets proves to be a challenge for veterinarians, yet this assessment is crucial in proper weight management of the pet. Obesity among dogs and cats is a mostly preventable disorder that is best treated with regular veterinary care, exercise, and dietary management.

Reynolds, Joi—"Theobromine in Chocolate" (session 5B)

Theobromine is the chemical compound that gives chocolate the bitter taste. I will be giving the history behind theobromine in chocolate as well as how chocolate is used in today's society.

Rhodes, Luke—"Trying Something Unknown, in a Place We Technically Aren't, with Men Who Don't Exist: Tactics, Success, and Failures of the 5th SFG 1961-1963" (session 3B)

In the swamps and jungles of South Vietnam, 400 men of the 5th Special Forces Group parachuted in under the cover of darkness, and a new age of warfare began. Specializing as force multipliers and counter insurgency operations, these men were trying something

brand new in a place many Americans had never heard of. Along with new tactics came groundbreaking success, and crushing defeat. This project investigates emerging tactics, success, and failure from 1961-1964 in the context of the commanders and men's perspectives on the ground and how these missions were carried out.

Rodgers, Makayla-“The History, Use, and Impact of Vanillin”

(session 3B)

When most people hear the word vanilla they think of fresh baked cookies, a nice cup of flavored coffee, or perhaps their favorite perfume. There are endless ways in which we use vanilla and it often plays into our everyday lives whether we realize it or not. In this presentation we will discuss the difference between vanilla, vanillin, and synthetic variations of the two and the history of it all.

Rodgers, Makayla-“The Hunt” (session 2B)

Vacation is something that we all look forward to and cherish. It can offer a break from our hectic lives and bring us new experiences. On the other hand, I'm sure we've all heard a few vacation horror stories from friends and family. In this 10-minute play reading we get to see an interesting and campy take on a camping trip gone terribly wrong.

Rojas, Esmeralda-“The Inclusion of Juvenile Sex Offenders in the Sex Offender Registry” (poster session)

Past research has shown that there were approximately 747,000 registered sex offenders in the United States, among those registered, 20% were juveniles. Sex offender registration laws had applied to juvenile sex offenders, however, the effectiveness of the laws implemented were questionable. The public had shifted opinion toward juvenile sex offenders from behaviors such as pranks to the outgrown belief that the juveniles sex offenders had been a danger to society. Juveniles sex offenders had been labeled from a young age, which has made it difficult for them to become successful. The study examined the general knowledge and attitudes of Missouri Valley College students toward sex offender laws that affected juvenile sex offenders and inclusion on the sex offender registry. The literature review discussed the effects of sex offender laws and their impact on juvenile sex offenders.

Santos, Luis Felipe and Karla Giusti-“The Supremacist Influence in Hate Speech” (session 6B)

In our project we research how white supremacist hate speech affects minorities. We argue that white supremacist hate speech causes the dehumanization of minorities using fake news and labeling activist organizations as hate groups. As a argument to sustain our thesis, we use the elected president of United States Donald Trump speech against illegal immigrants and how he dehumanizes them. For example, he said “these aren’t people; these are animals.” To conclude, when white supremacists dehumanize minorities, it results in an increase of violence like mass shooting, murder and persecution of minorities.

Silberman, Yarden-“Palmitic Acid and the Importance of Palm Oil” (session 2C)

Palmitic acid is a fatty acid molecule that is the main component of palm oil. Through palm oil, palmitic acid has had a large impact on society and will continue to do so in the future. There are serious environmental issues tied to the increased use of palm oil in our everyday products. This presentation will attempt to go over the history of palm oil as it relates to human societies, and demonstrate the impact it has had and potentially will have in the future.

Sitzes, Margaret and Caleb Pemberton-“Darters (Percidae) in a Central Plains Stream: Expanding the Known Distributions of Habitat Specialists Characteristic of the Ozark Plateau” (poster session)

The Salt Fork Creek is a second-order stream that drains into the Blackwater River in southern Saline County. This river’s benthic habitat is dominated by silt and clay substrates with areas of gravel and cobble, and the water column has high sediment content. Saline County is unique in that it represents a transition zone between the Glaciated Plains and Ozark Plateau. The purpose of this study is to expand the known distributions of six darter species potentially occurring in the Blackwater River watershed. Five of the six species of possible occurrence were found.

Sterenberg, Alexandra-“Superstition and its Influence on Confidence and Perceived Sports Performance” (poster session)

Many athletes have a mindset to help them achieve athletic excellence. Superstition is one of the many attributes that is perceived as helping

athletic performance. The purpose of this study was to demonstrate that student athletes who are superstitious, are generally more confident in their everyday life and while playing their sport. The study included 105 participants at Missouri Valley College. Results indicate that superstitious behaviors and confidence levels or confidence levels in sports were not correlated. There were statistically significant findings indicating that people who believed in the effectiveness of superstitions, reported better social life.

Tebb-Rodger, Morgan-“Is it Possible for a Business to Have a Positive Impact on the World and Make a Profit in a Consistent Yet Sustainable Manner?” (session 1C)

In this paper I address the query “Is it possible for a business to have both a positive impact on the world and make a profit in a consistent yet sustainable manner?” I look at different companies, such as Patagonia, and the way they utilize different strategies and models in order to ensure their company is based around a more ethical, environmentally friendly or worker friendly ethos, leaving a positive mark on the world whilst still making money. I found that more successful companies will base their ethos around these ethical principles, especially in today’s society where every consumer calls for more ethical and genuine products in order to keep their conscious clear.

Tolley, Shanelle-“Carbon Dioxide and the Kola Nut” (session 5B)

Carbon Dioxide and the Kola Nut is a paper that addresses the importance of Carbon Dioxide in shaping the western society as we know it today. More specifically, it discusses how the chemical properties of Carbon Dioxide revolutionized the consumption of carbonated beverages and the impact that these findings had on health and wellbeing. The history of the Kola nut (caffeine-containing fruit used as a flavoring ingredient) will also be discussed in close relation to this molecule. Following this presentation, the audience can expect to have their eyes opened to a guaranteed new outlook on the history behind their favorite carbonated drink. Keywords: carbon dioxide, kola nut, revolution, health, beverage, tradition

Toro, Endurance-“Analysis of Microbial Composition Differences between Rhizosphere and Non-Rhizosphere: Biphenyl Degradation, Polymerase Chain Reaction, and Agarose Gel Electrophoresis” (session 2C)

In some plants that are difficult to cultivate away from their natural environment, the microbial composition of the rhizosphere (soil around the roots) tends to have certain microbes that are different from the non-rhizosphere. Identifying these microbes can enable scientists to culture them, mix them with soil, and grow those plants in any desired location. This research analysed the biphenyl degradation properties of rhizosphere and non-rhizosphere of different plants. In addition, DNA from the samples was extracted, run through the polymerase chain reaction, and the agarose gel electrophoresis for DNA sequencing. The purpose of this study was to find any differences in the rhizosphere and non-rhizosphere that could explain why the plant would not grow anywhere else. The hypothesis was that rhizosphere degraded biphenyl faster than non-rhizosphere and also possessed microbes that are different from non-rhizosphere.

Tshibanda, Monika-“Carbon: The Blood Diamond” (session 1C)

For the last 1,000 years, mankind has been enamored by the beauty of the diamond. While most would agree that diamonds are a luxury and often bring a sense of joy for those that are gifted with them, the question remains of where diamonds come from and how we were able to obtain them. This presentation examines one approach to understanding the actual origins and affects of carbon on humanity. This presentation goes beyond the glamour of jewelry and manufacturers and disappears into the sea of death, corruption, and humanitarian crisis that is the blood diamond, carbon

Velasquez Wilson, Daniel-“Internal Frost” (poster session)

A series of strategically captured photographs display indefinite feelings of severe despondency and dejection over snow filled dawns, stimulating the senses to visualize emotions over a three-dimensional plane that displays an indefinite progress of existence over the winter months.

Ward, Emmie-“All Things Adderall” (session 3A)

The demand for Adderall, also referred to as the “study drug” has become very popular over the past decade. Adderall is a specific name brand drug and is a prescribed medication given to treat those diagnosed with attention deficit hyperactivity disorder (ADHD) and it can be used to treat certain forms of sleeping disorders, like narcolepsy. Today I will discuss where Adderall was first synthesized, the chemical structure, how it became so popular, and the effects

it has on humans, psychologically and neurologically. Through my research, I will explain how Adderall has become so relevant in human society and how it has changed over time.

Whitehead, Nicholas and Zac Guerrero, “A Business Plan for Underworld Bar & Grill” (session 4A)

With our business, the small town of Marshall will now be exposed to new depths. With a new wave of entertainment, as well as a get-away spot from the world above. We are here to satisfy your late night needs and feed you what you desire.

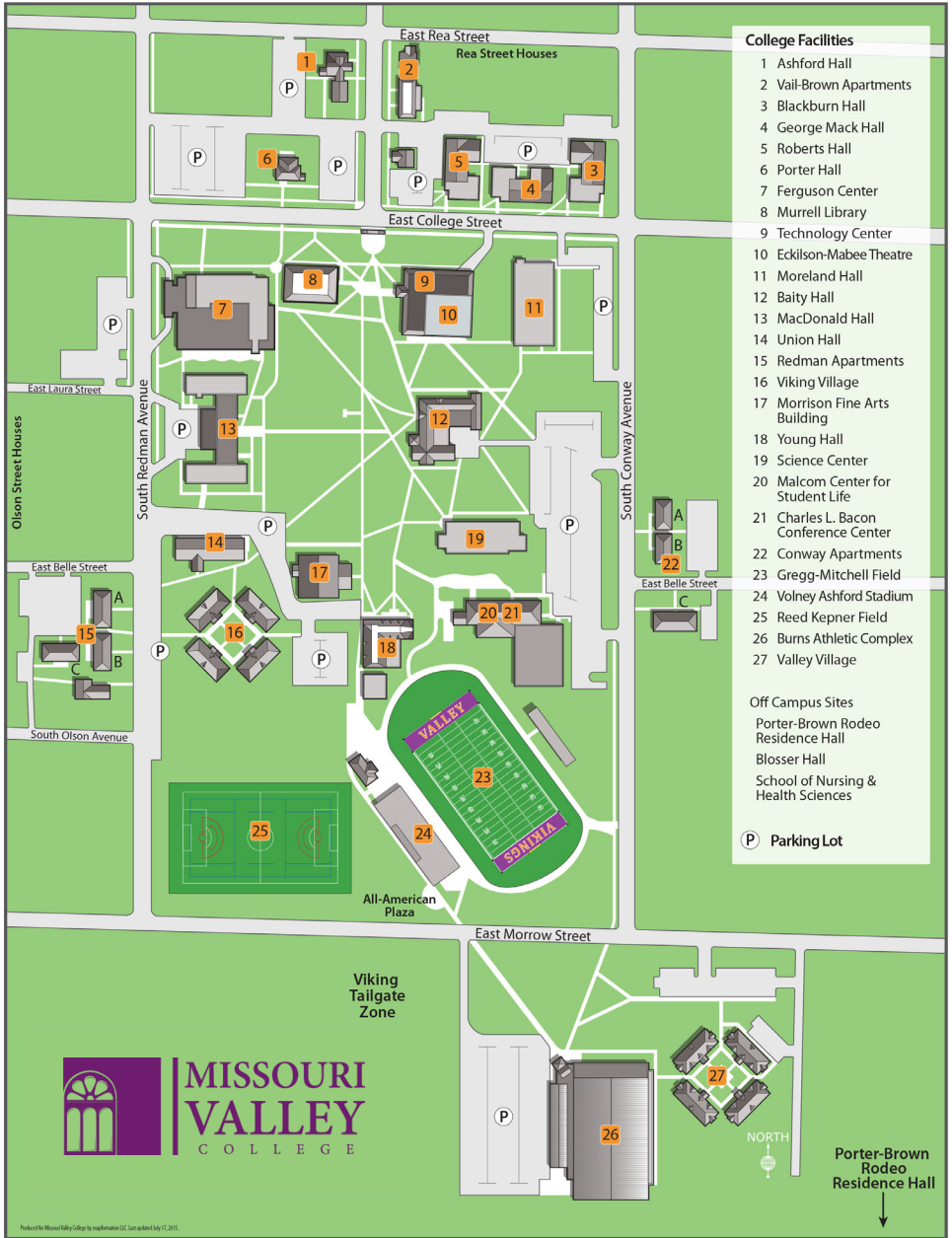
Wilson, Julia-“Lycopodium” (session 4C)

Lycopodium is defined as a genus of clubmosses, also known as ground pines or creeping cedar. There are many different things that lycopodium has been used for such as; creating large flames of fire, mainly used in magic acts, fireworks and explosives, an ice cream stabilizer, and finally, as fingerprint powder in crime scenes. Going into the field of criminal justice, as well as forensic science, I was intrigued with lycopodium and it is use as a powder to detect fingerprints at crime scenes. I wanted to get a deeper look into molecules dealing with crime scene investigations and lycopodium turns out to be a very interesting and helpful molecule in this field.

Zarate, Jared, Drake Nilges, Nate Reyes, and Beckley Obineke, “A Business Plan for The Horn in Marshall, Missouri” (session 4A)

The Horn is a social entertainment facility that offers a variety of games and refreshments to Marshall, Missouri. We are asking for funding to help us launch and develop our business concept. We will provide a unique service that is currently foreign to the Marshall, Missouri area.

Campus Map



- College Facilities**
- 1 Ashford Hall
 - 2 Vail-Brown Apartments
 - 3 Blackburn Hall
 - 4 George Mack Hall
 - 5 Roberts Hall
 - 6 Porter Hall
 - 7 Ferguson Center
 - 8 Murrell Library
 - 9 Technology Center
 - 10 Eckilson-Mabee Theatre
 - 11 Moreland Hall
 - 12 Baity Hall
 - 13 MacDonald Hall
 - 14 Union Hall
 - 15 Redman Apartments
 - 16 Viking Village
 - 17 Morrison Fine Arts Building
 - 18 Young Hall
 - 19 Science Center
 - 20 Malcom Center for Student Life
 - 21 Charles L. Bacon Conference Center
 - 22 Conway Apartments
 - 23 Gregg-Mitchell Field
 - 24 Volney Ashford Stadium
 - 25 Reed Kepner Field
 - 26 Burns Athletic Complex
 - 27 Valley Village
- Off Campus Sites**
- Porter-Brown Rodeo Residence Hall
 - Blosser Hall
 - School of Nursing & Health Sciences
- (P) Parking Lot**





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