Mission
The Mission of the Lewis-Clark State College Research Symposium is to celebrate academic achievement, enhance professional development, and promote scholarship and research excellence by providing students, faculty, and guests the opportunity to present and share their work.

Programs Participating This Year

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A special thank you is extended to the following people who made the 2017 Research Symposium a reality this year:

President J. Anthony Fernandez
Provost Lori Stinson
Dean Mary Flores
Dean Kathy Martin
Dr. Delta Heath-Simpson - Business Division
Dr. Heather VanMullem – Division of Education & Kinesiology
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Ms. Monika Pande, SODEXO
Idea Network of Biomedical Research Excellence (INBRE) Program
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Featured Symposia 2017

Wednesday, May 3rd, 12:00-1:15
WCC – Clearwater/Snake Room

FACULTY SHOWCASE SYMPOSIUM: A symposium session highlighting the scholarly endeavours of LCSC faculty.

Dr. Christa Davis
Title: Express the True You! KRUMP Street Dance, Helping At-Risk Youth

Kristy Johnson, MS, RN, PCCN,CNE
Title: Living with a Complex Congenital Heart Defect During Emerging Adulthood

Dr. Timothy Lynch
Title: Temp to Perm: Stacking the Electoral Deck Through U.S. Senate Appointments

Lauren Nichols, L.CSW and Dr. LaChelle Rosenbaum, L.MSW
Title: Prevalence of Adverse Childhood Experiences among Students at a Rural Four-Year College

Dr. Pete Van Mullem
Title: Examining the Career Path to Collegiate Head Coach

Jessica Savage, M.S., CSCS
Title: The Effect of Plyometric Training on Muscle Activation of Quadriceps and Hamstrings in Female Athletes

Dr. Amanda Van Lanen
Title: Perfect Apples, Safe Apples?: Consumers’ Impact on Industrial Pesticide Use in Washington Apple Orchards, 1920-1930

Wednesday, May 3rd, 3:00-4:15
WCC – Clearwater/Snake Room

STUDENT & FACULTY ROUNDTABLE DISCUSSION

Discussants: Dr. Kerensa Allison (Anthropology), Andrew J. Baron (Political Science), Casey Bosse (Psychology), Kendall Brusseau (Exercise Science), Kaitlin Druffel (Kinesiology), Sam Elsethagen (Political Science), Andrew Evans (Anthropology), Ryan Greenberg (Psychology), Dr. Leif Hoffmann (Political Science), Emerald Jenks (Pre-Nursing), Kelli Longatti (Social Work), Anna Rodriguez (Political Science)

Description: A roundtable discussion on the benefits of attending and presenting at research conferences as an undergraduate

Abstract: This roundtable will focus on the costs and benefits of attending academic conferences as an undergraduate student. Students will share their broad experiences on attending and presenting at research conferences throughout the last year while professors will talk about the experience of preparing and taking students.
Keynote Address: Dr. John Rusche – Idaho House of Representatives (2004-2016), Senior Vice President/Chief Medical Officer of Regence BlueShield in Lewiston, ID (1995-2005), General Pediatrician at Valley Medical Center in Lewiston, Idaho (1980-1995); Actively Licensed with Idaho Board of Medicine

Title: US Healthcare—Where Do We Go From Here?

Abstract: The Affordable Care Act made massive changes in the realms of healthcare delivery and financing. It has been in force for almost seven years. In that time, it has survived partisan battles, Supreme Court lawsuits, Congressional under appropriation, and was the target in two presidential campaigns and numerous House and Senate races. But as of now, the ACA will be “the law of the land for the foreseeable future” per Speaker Ryan. How is the ACA working, nationwide and in Idaho? How can it be made better? In the efforts to expand coverage, control costs and improve quality, how can we find common ground?

Keynote Address 2017

Thursday, May 4th, 12:00-12:50
WCC – Clearwater/Snake Room

WEDNESDAY MORNING SESSION 9:00 – 10:15

WCC: Clearwater/Snake Room

SOCIAL WORK

Author: LaLania Murphy and Candace Stilson
Title: Frequency of Self-Care and the Feeling of Burnout among Social Workers
Abstract: The purpose of this research was to test the frequency of self-care among social workers and how that relates to feelings of burnout as indicated by Maslach’s Burnout Inventory. The population sampled included adults working in social work agencies in a rural community. Results will be discussed.

Authors: Janet Daniels and Cassandra Tout
Title: The Differences between Incoming and Graduating Students’ Perceptions on the LGBTQ Community
Abstract: This comparative study examines college students’ attitudes of homonegativity. The data was collected from entry level and senior level classes at a Northern Idaho college.

Author: Christopher Fanning
Title: Bullying among Social Work Students at a Small Rural North Idaho College
Abstract: This exploratory study uses a self-created survey to study the impact of bullying at a small rural North Idaho College. Surveys were administered to social work students at all collegiate grade levels.

WCC: Lochsa River Room

KINESIOLOGY

Author: Ashley Aurand, Megan Gilmer
Title: The effects carbohydrate loading has on aerobic performance
Abstract: The purpose of this research was to determine the effects of drinking a carbohydrate loaded sports drink compared to a placebo drink before strenuous aerobic exercise. Perceived rate of exertion, work load, blood glucose levels, and heart rates in non-athletes from LCSC were measured.

Authors: Shaun Cook, Kelli Kenser, Chad Skiles
Title: Improvement rates in aerobic and anaerobic training
Abstract: The purpose of this research was to compare improvement rates between anaerobic and aerobic training. Over two four-week trials, VO2 max and Wingate were tested on eight to twelve untrained students at LCSC between trials. The VO2 max and Wingate indicate the participants’ max aerobic and anaerobic capacity. This may be beneficial for instructors and coaches.

Author: Kaitlin Druffel, Savannah Kuther
Title: Variables that are positively correlated to GPA
Abstract: The purpose of this research was to determine if a relationship existed between body composition, economic status, GPA, and reported physical activity. A questionnaire was administered to gather information of reported GPA, economic status, physical activity and parent’s occupations. Participants will be recruited from 10th and 11th grades from northwest high schools.
**WEDNESDAY MORNING SESSION 10:30 – 11:45**

**Title:** The Effects of Separation on Siblings in Foster Care: A Comparative Study  
**Authors:** Carrissa D. Bentley and Amber C. Hillesstad  
**Abstract:** A comparative study was used to examine and identify effects of separating sibling groups within a Northwest state foster care system. The study collected information including; gender, age, number of siblings, number of placements, length of placement, and the services used. Results from this study will be discussed.

**Title:** A North Idaho Homeless Center: Needs Assessment  
**Authors:** Epiphanie Church, David Tapito, and Esther Wilson  
**Abstract:** The purpose of this qualitative study was to explore the impact the homeless center had on guest volunteers. The guest volunteers were interviewed about the services they received, the impact of those services, and what future services may be helpful as they seek self-reliance. The findings will be presented.

**Title:** Examining the Relationship between Social Work Students’ Level of Empathy and Their Level of Education  
**Authors:** Alexis Luper  
**Abstract:** There has been extensive debate in the academic community regarding the definition of empathy and how professionals accurately measure such. Therefore, the purpose of this research was to examine the levels of empathy by collegiate social work grade level and examine the differences.

**Title:** Effect of a 6-week Plyometric Training Program on lower Extremity Kinetics in Female Collegiate Basketball players  
**Authors:** Kyndahl Ulmer, Caelyn Orlandi  
**Abstract:** An experimental design of a 6-week plyometric training program with pre and post testing will be used to test the absolute angles and vertical max jump of ten collegiate female basketball players from the ages of eighteen to twenty two. This study will be used to educate coaches, players, and trainers on the importance of athletics on the campus of Lewis-Clark State College.

***Wednesday, May 3rd Featured Symposium***

12:00-1:15, WCC- Clearwater/Snake Room  
**FACULTY SHOWCASE SYMPOSIUM:**  
A symposium session highlighting the scholarly endeavours of LCSC faculty.

**WEDNESDAY AFTERNOON SESSION 1:30 – 2:45**

**Title:** A Needs Assessment of the Student Veteran Population at a Pacific Northwestern College  
**Authors:** Kellie Cardoza Longatti, Theodore Mills, and Steve Welsh  
**Abstract:** A descriptive design needs assessment that examined the needs of student veterans and eligible family members and further assessed whether these needs were being met by a Pacific Northwestern college. Participants were voluntary and asked to participate by completing an online sixty-four question survey. Results will be discussed.

**Title:** Beneficial Aspects of Assertive Community Treatment as Seen by Mental Health Court Graduates  
**Authors:** Mackenzie Garrison  
**Abstract:** Beneficial Aspects of Assertive Community Treatment as Seen by Mental Health Court Graduates  
**Abstract:** ACT Teams (Assertive Community Treatment) and mental health courts often collaborate to aid individuals with chronic mental illness to divert incarceration and function in society. This qualitative study examined what aspects of a Northern Idaho ACT Team were beneficial in assisting participants’ success in a North Idaho Mental Health Court.

**Title:** How Athletics Impacts the Culture at Lewis-Clark State College  
**Authors:** Jacob Crawford, Westin Crenshaw, Juan Godina, Raymond Pedrina  
**Abstract:** How Athletics Impacts the Culture at Lewis-Clark State College  
**Abstract:** The purpose of this study is to analyze current student perception of the culture of athletics on the campus of Lewis-Clark State College.

**Title:** Does the sequence of mode of exercise effect weight loss and body composition.  
**Authors:** Laura Playfair  
**Abstract:** Does the sequence of mode of exercise effect weight loss and body composition.  
**Abstract:** The purpose of this research study is to determine if the sequence of anaerobic and aerobic exercise makes a difference in changes in weight loss and body composition. Seven site skinfold, hydrostatic weighing, and DEXA was used to determine the changes in body composition. Participants were students from a small, Northwestern college who have had previous weight training experience.

**Title:** Caffeine and Aerobics  
**Authors:** Kaitlin Briggs, Kate Caldwell, Kennadie Clute  
**Abstract:** Caffeine and Aerobics  
**Abstract:** The purpose of this study was to determine if caffeine intake had a positive effect on aerobic workload. Participants completed thirty minutes of aerobic exercise after consuming a placebo or a caffeine beverage in a dosage of 3-5 mg/kg on two separate trials.

**Title:** Variables that increase your risk of knee joint replacement in females  
**Authors:** Raymond Pedrina  
**Abstract:** Variables that increase your risk of knee joint replacement in females  
**Abstract:** The purpose of this study was to identify risk factors for early joint replacement surgery (knee and hip). Data was collected through use of a meta-analysis of tier one research articles. Factors other than age, genetics, and gender were analyzed to determine if a relative risk score could be calculated for adults younger than sixty-five for joint replacement surgery. This study helped with the understanding of the risk factors associated with early joint replacement surgery. This may help delay joint replacement surgery due to factors other than age, genetics, and gender.

**Title:** A Needs Assessment of the Student Veteran Population at a Pacific Northwestern College  
**Authors:** David Wilson, Ty Jackson, and Daulton Blackwell  
**Abstract:** An engaged environment of athletics on campus involves commitment, support, and loyalty of students, faculty, and staff. The purpose of this study is to analyze current student perception of the culture of athletics on the campus of Lewis-Clark State College.
Discussions: Kerensa Allison (Anthropology), Andrew J. Baron (Political Science), Casey Boze (Psychology), Kendall Brusseau (Exercise Science), Karlin Druffel (Kinesiology), Sam Elsahages (Political Science), Andrew Evans (Anthropology), Ryan Greenberg (Psychology), Leif Hoffman (Political Science), Emerald Jenks (Pre-Nursing), Kelli Longatti (Social Work), Anna Rodriguez (Political Science)

Title: A roundtable discussion on the benefits of attending and presenting at research conferences as an undergraduate.

Abstract: This roundtable will focus on the costs and benefits of attending academic conferences as an undergraduate student. Students will share their broad experiences on attending and presenting at research conferences throughout the last year while professors will talk about the experience of preparing and taking students.

Authors: Mike McHan and Tomislav Smith
Title: The Student-Athlete Perception of Coaching Behavior and Sport Experience

Abstract: Student-athletes expect coaches to encourage participation in sports and make sport an enjoyable experience. The purpose of this study is to examine student-athlete’s perception of coach behavior in creating a positive environment for sport participation.

Authors: Peter Irvin and Nehemiah Barrett
Title: Motivation for Student-Athletes in Sport

Abstract: One of the challenges to achieving success in the arena athletics and academics is maintaining motivation. The purpose of this study is to examine the motivational factors for why collegiate student-athletes are participating in sports. Recommendations for how coaches can better motivate their student-athletes will be provided.

Authors: Kurtis Bonner, Scot Carpenter, Ariel Jensen, Kaitlyn Kopczynski
Title: Increasing Value Through Local Flavor

Abstract: At Panera, we believe that strategically partnering with local bakeries will increase market share and drive growth. We will achieve our objective by offering local products to raise brand awareness, community goodwill, and foot traffic throughout Panera stores. By increasing value through local flavor, we can generate the unique community presence Panera strives for.

Authors: Amber Bingman, Dylan Hjelm, Eric Shaw, Taylor Smith, Samantha Sullivan, Paige Thiede, Glenn Wegrzyn
Title: Make Today Better: Marketing Panera’s Future

Abstract: Panera Bread Company is a popular fast-casual chain of bakery-café restaurants that markets health-conscious, clean-eating individuals. Research on Panera’s financial status led our team to create a marketing plan for Panera Bread to increase their revenue and cash flow during off-peak times.

Authors: Imer Alibegic, Seth Deal, Christian Reagan, Mackenzie Sorenson
Title: A Pathway to Higher Profits

Abstract: Panera Bread Company is a fast-casual restaurant offering delicious and healthy, bakery-café food options. Panera has a lot of potential to increase employee relations through a training and development program; creating higher employee retention rates, better employee engagement and customer service, ultimately leading to a higher profit.

Authors: Julia Osborne, Kylie Schumacher, Cassidy Stubbers
Title: Not Just Advertising and Marketing – Improving Image

Abstract: We are dedicated to improving image for a company both internally and externally. We will improve Panera’s employee relations and customer retention which will increase productivity. We will implement training programs into the current HR structure and measure and evaluate success through sales.

Authors: Lianxia He, Jeremiah Hanson, Jeremy Schwindt, Zachary Schweikert
Title: “Panera at Home”

Abstract: Panera Bread has an opportunity to expand its “Panera at Home” line to include full box meals for customers who want to eat healthy and stay at home to do it. This presentation focuses on the research to support this innovative idea and how it will be implemented.
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Abstract: The purpose of this research was to determine if TEMPO (4 counts concentric, 4 counts eccentric) method will yield a higher hypertrophy than FAST (1 count concentric, 1 count eccentric) method. Quantitative research using pre and post DEXA scan.

Authors: Baylee Moore, Garbett Ulmer, Molly Lorden & Kimberly Majors
Title: Decreasing Pain and Anxiety During Venipuncture

Abstract: Despite multiple methods of pain reduction with venipuncture, there is no standardized protocol in the United States for managing pain during IV starts. This study identifies key factors in analgesia with IV starts including cost, skill level required, and patient perception of pain with various methods of analgesia in venipuncture.

Authors: Alicia Hubert, Allison Richards, Brittany Vargas, Brianne Thomason
Title: Benefits and Risks of Vaccinations: Gardasil

Abstract: Vaccinating young people against HPV and cervical cancer raises a lot of questions. According to the CDC, HPV is the most common sexually transmitted virus in the United States. There is a lack of knowledge regarding the benefits of the Gardasil vaccine. Best practices for educating about Gardasil and HPV will be presented.

Authors: Mckaylin Shirey, Selina Byrum, Joshua Gabica, Anthony Croteau & Shane Perkins
Title: The Future of Medicine: Marijuana as an Antiemetic

Abstract: Medicinal uses of medical marijuana have always been controversial. Although marijuana has been used to manage a variety of conditions, this paper focuses on whether marijuana is more effective than current anti-emetics in practice when managing chemotherapy induced nausea and vomiting in cancer patients.

Authors: Allise Morgan, Magda Hoff, ShyAnnah Fleming, and Mackenzie Durrell
Title: Best Nursing Practice in Advising Potential Gene Therapy Patients

Abstract: Treatment possibilities for genetically-linked diseases are increasing. Gene therapy has promising outcomes including the potential for cure and prevention; however, barriers remain. One important consideration is the depth of patients’ and nurses’ knowledge on this topic. Recommendations for future study include discovering what these populations currently know about gene therapy.

Authors: Mateo Caervas-Jimenez, Connor Imel
Title: “Tempe” versus Traditional “Fast” concentric and eccentric workout routines; which builds more muscle

Abstract: The purpose of this research was to determine if TEMPO (4 counts concentric, 4 counts eccentric) method will yield a higher hypertrophy than FAST (1 count concentric, 1 count eccentric) method. Quantitative research using pre and post DEXA scan. Twelve to fifteen students from a small, Northwestern college were studied during a nine week duration in the spring semester of 2017. All participants had identical workouts.
Abstract:

**Title:** Gender within Ecuadorian Food Markets
**Authors:** Avery Hurst, Brad Prichard, and Ken Stroppe

**Abstract:** Sport psychology professionals use techniques to improve an athlete's self-efficacy, often increasing an athlete's ability to be successful on the field of play. The purpose of this study will be to examine the relationship between an athlete's perceived self-efficacy and the impact it had on their sport performance.

**Title:** Opportunities and Barriers for Non-Timber Forest Products in Ecuador
**Authors:** Jodi Reyes

**Abstract:** Much research has focused on Ecuador’s $800 million cut-flower export business, but has ignored the local economy. This research will bring awareness to the local economic patterns within the famous flower market in Cuenca, run by women and frequented by international tourists.

**Title:** Local and International Cut-Flower Industry in Ecuador
**Authors:** Edward Sloniker

**Abstract:** This descriptive study is designed to understand the non-timber forest product (NTFP) market, specifically, the availability of tagua nut in the local Ecuadorian market. The observational research will document the availability, marketing, and customer base of tagua nut production to better understand economic disposal patterns in public areas.

**Title:** Gender and Non-Timber Forest Products in Ecuador
**Authors:** Monique Stamper

**Abstract:** Research suggests women in Ecuador are held to unrealistic standards of beauty, specifically preferences and practices to maintain lighter skin. Lighter skin is often associated with high class and modernization, which influences women’s social behaviors. This research will explore sun avoidance practices and frequency of hair lightening as measures of this influence.

**Title:** The Formality of Ecuadorian Dress Practices
**Authors:** Sami Helsley

**Abstract:** This paper explores Ecuadorian dress practices between men and women and how globalization, modernization, and generational differences have impacted formal and informal dress. Formal dress has been the norm for both Mestizo and Indigenous cultures, and this research indicated that there may be a shift in modern dress practices in Ecuador.

**Title:** Perceived Self-Efficacy and its Relationship to Student Athletes
**Authors:** Angel Barnett

**Abstract:** This goal of this descriptive research is to better understand the relationship between the availability of garbage collection options and the amount of garbage which is improperly disposed of in public areas within Ecuador. Observation-based data collection will include mapping garbage/recycling receptacles and garbage disposal patterns in public areas.

**Title:** The Business of Ecuadorian Garbage
**Authors:** Avery Hurst

**Abstract:** This research is intended to record the smoking habits of teens and young adults through observations of gender, age, location, population, and type of material smoked. This research is needed to better understand contemporary public smoking patterns to support anti-smoking campaigns.
In the Hands of a Diplomat: Henry Kissinger and the Yom Kippur War

Abstract:
The prevailing historical narrative on the Yom Kippur War of 1973 has been Henry Kissinger's memoirs. Through the use of recently declassified documents and phone conversations, this research gives a parallel narrative to reveal the depth of Kissinger's control over the diplomatic proceedings during the war.

Authors: Jacob S. Laam
Title: The Salem Witch Trials: The Synonymy between Witch and Women
Abstract: The Salem Witch Trials in Salem, Massachusetts, began in February of 1692, and ended abruptly in September of that same year. 185 individuals were accused; 141 of them were woman, while 44 of them were men. This paper will analyze why more women than men were afflicted during these trials.

Abstract:
The historical literature on the Allied Bombing of the European Axis powers in World War II has neglected a piece of the war being the destruction of Germany's oil. This phase lasted from Spring 1944 to Spring 1945, which restricted the refinement and transportation of oil and oil-related products.

Author: Cambria Sullivan
Title: Asktransgender: Exploring Thematic Content Through Digital Ethnography
Abstract: In this paper the author discusses the ways in which digital ethnography could be used to gain a more holistic understanding of the needs of the transgender population via unobtrusive data collection and thematic analysis of a popular online transgender message board.

Authors: Hailey J. Laven
Title: The Salem Witch Trials: The Synonymy between Witch and Women
Abstract: The Salem Witch Trials in Salem, Massachusetts, began in February of 1692, and ended abruptly in September of that same year. 185 individuals were accused; 141 of them were woman, while 44 of them were men. This paper will analyze why more women than men were afflicted during these trials.

Author: Litalien, JaLisa Jose, and Ryan Page
Title: Student-Athletes Understanding of Nutritional Guidelines related to Participation in Athletics
Abstract: Understanding basic nutritional guidelines is utmost important for student-athletes in striving for successful performance and developing healthy habits for long-term health benefits. The purpose of this study is to examine the collegiate student-athlete's understanding of basic nutritional guidelines as it relates to athletic performance.

Title: Asktransgender: Exploring Thematic Content Through Digital Ethnography
Authors: Cambria Sullivan
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Center for Arts & History
COMMUNICATION ARTS

Author: Ashten Tippen
Title: Does Personality Determine Anxiety? Speech Anxiety and Personality Types
Abstract: This study examines whether a correlation exists between Speech Anxiety and personality preference towards introversion/extroversion. Using the Keirsey-Bates temperament sorter and the Personal Report of Public Speaking Anxiety, the project explores if those who are quiet and reserved are more prone to Speech Anxiety than those who are outgoing and open.

Author: DJ Maurer
Title: The Strategy of Debate: Framing of Candidates, Party and Platform in the 2016 Presidential Debates
Abstract: This study analyzes the first 2016 Presidential Debate between Hillary R. Clinton (D) and Donald J. Trump (R). Using Erving Goffman’s framing theory, the paper considers both party platforms and the debate strategies used by each candidate to better understand the communication practices that shape viewers’ perceptions of the candidates.

Author: Jesse Maldonado
Title: Social Media and Political Education: Do Individuals use Social Media to Gather Political News and Information?
Abstract: This study examines current trends in how individuals consume, share and discuss politics. In recent years, the political playing field has reshaped itself as more individuals find themselves online and participating in social media. The paper suggests the public’s gathering of news and political information has been revolutionized.

Author: Hayden Tilton
Title: Social Media and Intimate Relationships: Help or Hinder?
Abstract: This project explores how social media has changed the way we communicate, and more specifically, how it impacts the intricacies of intimate relationships. Using survey methods, this project investigates perceptions of whether social media helps or hinders established and/or developing relationships and whether it fosters jealousy or other problems.

Author: Alex Scalise
Title: Gamers, Communication Styles, and Stigmas: Understanding the Culture of Video Games
Abstract: This research investigates the subculture of gamers and their communication styles. The paper argues that for years, there has been negative perception of video games and the people who play them. This project attempts to de-stigmatize the gaming experience, debunk negative stigmas, and understand the interpretive community of gaming.

Author: Shelby Prior
Title: The Validity of the Relationship between Social Media and Social Justice
Abstract: This presentation will look at the disciplines of communications, politics and sociology and how they answer this question: Is the use of social media a valid means of achieving social justice?

Center for Arts & History
COMMUNICATION ARTS

Author: Faith Evans
Title: A Visitor’s Guide for Connecting to the Canyon
Abstract: This poster offers visitors to Hells Canyon thoughtful activities to complete at various locations throughout Hells Canyon. The intention is that by completing each activity with an open mind, individuals will notice and appreciate nuanced details, leading them to feel a deeper connection to nature and a sense of peace in the canyon.

Author: Amanda Wallace, Danielle Evans, & Erin Steffens
Title: The Places You’ll Go: The Names of Hells Canyon
Abstract: This project is a field guide to the names of places, people, flora, and fauna found in Hells Canyon. This guide includes information on the etymological, historical, locational, and Nez Perce origins of the names, and is mapped along the Snake River between Hells Gate State Park and Chinese Massacre Cove.
**Trace Analysis of Amoxicillin in River Water**

**Authors:** Dash Allbright, Kastin Gribble, Dominique Martinez and Nicole Rhodes

**Title:** Obtaining Oil From Scenedesmus obliquus (Green Algae) Using Hexane as Solvent

**Abstract:** Biodiesel is a common sustainable source of fuel worldwide. Algae is a source of the oil required to produce biodiesel and extraction of the oil from algae is currently under investigation by many scientists. In our experiment, we extracted oil from a species of green algae, Scenedesmus obliquus. To do so, the algae was pressed and then submerged in a flask with hexane. After evaporation of the solvent, the resulting oil was characterized by IR (Infrared Spectroscopy) and NMR (Nuclear Magnetic Resonance).

**Authors:** Brandi Bundy, Sarah Eberle, Levi Jeppson and Abby Pedersen

**Title:** Comparison Of Indoor And Outdoor Air Composition in Educational Buildings and Businesses

**Abstract:** A study was conducted to characterize and quantify the composition of air in the Lewis-Clark valley. Considering the local industrial emissions, air toxics and sulfur compounds are expected to be higher than surrounding areas. To investigate this, sorbent tubes were used to collect air samples which were analyzed using thermal-desorption gas chromatography. Elevated levels (ppbv) of dimethyl sulfide and dimethyl disulfide were observed closer to the paper mill, with dimethyl disulfide being most concentrated.

**Authors:** Augustus Tropea, Janey Valerio, and Seth Long

**Title:** Computer Assisted Segmentation Tool: A Machine Learning Based Image Segmenting Tool for TrakEM2

**Abstract:** We have developed the Computer Assisted Segmentation Tool (CAST), which produces results that are comparable to manual segmentation with reduced manual time required. CAST is clear for universal block face electron micrograph (SEM) images of Mus musculus retinal axons; however, CAST is capable of operation on other image types. CAST is available under an open source license in a modified version of the TrakEM2 plugin for the popular Fiji image analysis suite.

**Authors:** Janey Valerio

**Title:** The Computer Assisted Segmentation Tool (CAST)

**Abstract:** CAST is a plugin that was integrated into the FIJI image processing suite in order to determine accuracy which proved to be very similar to manual outlining.

**Authors:** Mallory McDermott, Lindsey Riggs, Joshua Mundell, Eric Stoffregen

**Title:** Y chromosome variation mediates the sex ratio of surviving Blm null embryos in Drosophila melanogaster

**Abstract:** Numerous studies have demonstrated Y chromosome telomere DNA poses distinct challenges to the DNA replication machinery, particularly during the rapid syncytial cell cycles of early Drosophila embryo development. The Y chromosome of Drosophila harbors vast amounts of repetitive DNA. Male progeny, which contain a Y chromosome, have decreased survival to adulthood when their mothers lack the DNA helicase Blm. Blm is essential during the early stages of embryogenesis for proper DNA replication and repair. Previously, we found Y chromosome variability that exacerbates the female:males ratio of surviving progeny in a Blm null background. We screened our other naturally derived lines of Drosophila for Blm-dependent Y chromosome variation.

**Authors:** Jolee Aeschliman, Nathan Anderson, Alyssa Copple, Eric Stoffregen

**Title:** Modeling Neural Connections in Mice

**Abstract:** Using CAST to compare autoxidation of biodiesels renders them less effective and eliminates the option of long term storage. Considering the local industrial emissions, air toxics and sulfur compounds are expected to be higher than surrounding areas. To investigate this, sorbent tubes were used to collect air samples which were analyzed using thermal-desorption gas chromatography. Elevated levels (ppbv) of dimethyl sulfide and dimethyl disulfide were observed closer to the paper mill, with dimethyl disulfide being most concentrated.

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FRIDAY AFTERNOON POSTER SESSION 1:00 – 3:00

**Subject:** Natural Sciences

**Title:** Antibacterial Properties of the Essential Oil Arborvitae

Author: Rhegan Humphrey

Abstract: Recent studies suggest some essential oils have antibacterial properties that inhibit bacterial growth. In this study, bacterial growth in the presence and absence of the essential oil Arborvitae was assessed using spectrophotometric methods. Results indicated that Arborvitae inhibited the growth of bacteria, and that the active component of the oil that inhibited growth was hydrophilic. The use of essential oils as novel antibiotics may prove useful when dealing with multi-drug resistant bacteria.

**Title:** "Interrupt[ing] the Process of Forgetting": Cultivating Students' Word Acquisition Skills

Author: Rachel Jameton

Abstract: Participants biked for two miles on stationary bikes while listening to one of two auditory stimuli (white noise vs. music) and then rated their perceived exertion after completing the bike trial using the R.P.E. Scale (Borg, 1982). Results, limitations, implications, and future research will be discussed.

**Title:** Using Gender and Labor to Teach Diversity

Author: Cameron Kirk

Abstract: Students at LCSC were given an academic success survey and asked to self-report on comfort level of parent’s income and their own high school GPA. As reported income level of parents increased, participants’ high school GPA was also expected to increase. Results and implications will be discussed.

**Title:** Sense of Identity: Measuring Historical Trauma among Native Americans

Author: Rylee Parker

Abstract: American LCSC students using the Historical Loss Scale and The Historical Loss Associated Symptoms Scale (Whitbeck et. al., 2004). Results, limitations, and future research will be discussed.

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Abstract: The purpose of this study was to examine the relationships between Engagement with Beauty (Diessner, Solom, Frost, & Davidson, 2008), Connectedness to Nature (Mayer & Frantz, 2004), the Pro-Environmental Behaviors Scale (Markle, 2014). Data was collected using availability sampling via a self-report questionnaire on the LCSC campus (N = 194). Results, limitations, and further implications will be discussed.

Author: Kelli R. Praest
Title: Assessing the Relationships between Engagement with Beauty, Connectedness to Nature, and Pro-Environmental Behaviors

Abstract: The current study examined the effectiveness of the reciprocity and scarcity Principles of Influence (Cialdini & Trost, 1998) on gaining compliance over email. A request to complete a survey was sent to 300 randomly selected LCSC students; completion of the survey was used to measure compliance. Of those emailed, 14% of students complied with a reciprocity request and 5% complied with a scarcity request. These results can be useful for developing email-marketing campaigns. Limitations and future research will be discussed.

Author: Bradley Shull
Title: A Study of LCSC Students’ Opinions about the Juvenile Sex Offender Registry

Abstract: A correlational design was used to see if high absorption (Tellegen & Atkinson, 1974), boundary thinness (Kunzendorf et al., 1997), Engagement with Beauty (Diessner et al. 2008), Openness to Experience, and Neuroticism (Big Five Inventory; John & Srivastava, 1999) were related to nightmare frequency. Individuals with higher levels of these traits were expected to experience nightmares more frequently. Results, limitations, and future research will be discussed.

Author: Shawnee F. Stacy
Title: Nightmare Fuel: Personality’s Influence on Nightmare Frequency

Abstract: A close analysis on Haruki Murakami’s Norwegian Wood (2000) focused on the theme of isolation, the difference with solitude and the resolution for isolation, correlates with The Beatles’ song Norwegian Wood (1965). Both works present a sense of ambiguity and a touch of surrealism, this study reflecting on varieties of humanity.

Author: Jodi Reyes
Title: You Don’t Own My Love: Sexuality in the Media

Abstract: Television has changed from showing heterosexual couples in two different beds to heterosexual & same sex couples in one bed. Sexuality in the media has changed over the past decades, showing more than two sexualities on the small screen along with different couples. This is not your mother’s television anymore.

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Author: Sarah A. Rogers
Title: Diversity: Teaching, and the American Classroom

Abstract: "Building bridges across cultural boundaries requires a high degree of flexibility, a tolerance for ambiguity, and an understanding of the role culture plays in shaping our thinking and behavior. Education can and must play a key role in facilitating the bridge building process." I hope to portray how to accomplish that.

Author: Jiwon Claire Jeong
Title: Bildungsroman as a Tool: Constructivist Pedagogy in Literature

Abstract: This article is based on psychological and social constructivism pedagogy that education should be based on the individual understanding with social interaction. Bildungsroman literature which deals with the formative years of protagonist such as Hermann Hesse’s Demian and Charles Dickens’s The Great Expectation, is the key of successful constructivist pedagogy.

Author: John Kwon
Title: Diversity: Teaching, and the American Classroom

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Author: Justin Scott
Title: The Effectiveness of Reciprocity and Scarcity on Compliance Over Email

Abstract: The purpose of this study was to examine the importance of Digital Aristotelie. I discovered attitudes and points of view greatly affect the way education is taught and that it leaves wanting/needs to change. Most of all it’s about hope.

Author: Jodi Reyes
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This project examines the ways in which two texts, The Arabian Nights and Charles Dickens’ Bleak House, illustrate the power of stories to teach us empathy and compassion, to move and motivate us, to produce connections, and to create ties to the past while building bridges to the future.


case study is interested in how differences in coaching styles and communication styles impact athlete responsiveness and success. As such, the project interviews five college coaches for their insights on effective communication, coaching styles and strategies. Specifically, the study explores subjects such as coach-athlete relationships, respect, criticism, and discipline.


class project investigates not only whether such advertising is perceived as an invasion of privacy, but also how frequently individuals follow clickable ads and/or make purchasing decisions based on social media marketing.
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