

Lewis-Clark

STATE

C O L L E G E

*3rd Annual Research
Symposium*

May 6th, 7th, & 8th, 2009



*Connecting Research
To Life*

Symposium Program

Mission

The Mission of the Lewis-Clark State College Research Symposium and Student Research Excellence Journal is to enhance student academic achievement, professional development and award research excellence by providing the opportunity for students to present their research in symposium and the opportunity to publish their research for students, faculty, staff, stakeholders and the community through an online research journal forum

Programs Participating This Year

Business Division

Education Division

Kinesiology

Humanities Division

Communication Arts

English

Division of Natural Sciences & Mathematics

Biology

Chemistry

Earth Information Science

Humanities

Natural Science

Nursing & Health Sciences Division

Nursing

Social Sciences Division

Psychology

Social Science

Social Work

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Ms. Debbie Goodwin Committee Planning Member
Dr. Timothy Doty Committee Planning Member
Dr. Rhett Deissner Committee Planning Member
Dr. Okey Goode Committee Planning Member
Dr. Rachel Jameton Committee Planning Member
Dr. Ruth Lapsley Committee Planning Member
Dr. Christopher Norden Committee Planning Member
Dr. Chris Riggs Committee Planning Member
Dr. Clay Robinson Committee Planning Member
Dr. Sheila Watkins Committee Planning Member

A Special Thank You is Extended to the Following Sponsors Who Assisted in Making the 2009 Senior Research Symposium and Research Excellence Journal a Reality This Year

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Keynote Speakers 2009

Wednesday May 6th

Dr. Alan Marshall

Title of Keynote Address: Niimiipuu Studies: From Basic Research to Applied Anthropology

Biography: Professor Marshall earned his Ph.D. in cultural anthropology from Washington State University (Pullman, WA) in 1977 for ethnographic research with members of the Nez Perce Tribe of Idaho. His dissertation, *Nez Perce Social Groups: An Ecological Interpretation*, described the interaction of Nez Perce families with their landscapes. After working at North Dakota State University and Boise State University, he joined the faculty at Lewis-Clark State College (Lewiston, ID) in 1979. He is currently Professor of Anthropology in the Social Sciences faculty. His work focuses on the relationship between human groups and their environments. Recent work includes providing written and oral testimony regarding Nez Perce water rights in the Snake River Basin Adjudication; land issues in Wallowa County, Oregon; and hunting rights cases. Recent publications include "Fish, Water, and Nez Perce Life" *Idaho Law Review* 42 (3): 763-793 (2006); "Socrates Meets Two Coyotes" *Journal of Philosophical Research* 25: 459-469 (co-author: Kurt Torell) (2000); and "Unusual Gardens: The Nez Perce and Wild Horticulture on the Eastern Columbia Plateau," in *Northwest Lands and Peoples: An Environmental History*. Dale D. Goble and Paul Hirt (Eds.). Seattle: University of Washington Press, pp. 173-187 (1999).

Dr. Chris Riggs & Dr. Eric Martin

Title of Keynote Address: The Promise and Perils of History Research on the Web

Biography: Dr. Chris Riggs holds a Ph.D. in History from the University of Colorado at Boulder. His specializations include United States History and Native American History and Policy. He has published in the *American Indian Culture and Research Journal* and the *Pacific Historical Review*. He is the Coordinator for the Social Sciences Major Program and has taught at LCSC in the Social Sciences Division since 2001.

Biography: Dr. Eric Martin holds a Ph.D. in History from Northeastern University. His areas of specialization include World History, Anti-Colonialism, and African History. He co-edits the H-World electronic discussion list and his most recent articles have appeared in *World History Connected*. He has taught at LCSC in the Social Sciences Division since 2002.

Thursday May 7th

Dr. Heather Van Mullem & Alyson Peck

Title of Keynote Address: Content Analysis of Images on Media Guide Covers of Female Student-Athletes Competing at the NCAA Division-II, NCAA Division-III and NAIA Levels

Biography: **Dr. Heather Van Mullem** is an Assistant Professor in the Division of Education, Health and Kinesiology Program at Lewis-Clark State College. She has served as a Health & Kinesiology faculty member for four years, beginning in 2005. Dr. Van Mullem has a Ph.D. in Education: Sport Studies with an emphasis in the Psychology and Sociology of Sport (2005) and a graduate certificate in Women's Studies (2003) from the University of Kansas, a MS in Kinesiology from Humboldt State University (2001), and a BS in Physical Education from Eastern Washington University (1999). Dr. Van Mullem's academic research interests concern gender issues in sport.

Biography: **Alyson Peck** is a senior in the Sport Administration degree program at Lewis-Clark State College. A student-athlete, Ms. Peck is in her fourth year of competition for the LCSC tennis team. She plans to pursue a job in the area of health and fitness.

Ms. Nikol Luther & Mr. Octavio Ambriz, Jr.

Title of Keynote Address: The Ultimate Catch: Strengthening LC's Advising and Retention Net

Biography: **Nikol Luther** is the Associate Director of Career & Advising Services at Lewis-Clark State College. She was the Business Division's Program Advisor for two years and also taught Business Communication as an adjunct faculty member. She has taught Basic English, College Writing, and Research Writing at the University of Idaho, Walla Walla Community College, and Lewis-Clark State College. She received her MFA in Creative Writing from the University of Idaho, and her bachelor's degree in English from Lewis-Clark State College. She is a member of the National Academic Advising Association, and recently presented at their regional conference.

Biography: **Octavio Ambriz, Jr.** will graduate this year from Lewis-Clark State College with a bachelor's in Business Administration and a Marketing minor. He is the oldest of five children and is the first generation of his family to attend college. He came to Lewiston on the College Assistance Migrant Program or CAMP scholarship in the fall of 2004 from the small town of Rupert, Idaho. During his college career he has been involved with the AmeriCorps Escort program, Student Business Organization, the Organization of Latin American Students, Intramurals, Outdoor Recreation, Ambassador Honor Society, and student government. He is currently a resident assistant at College Place, and project manager of the 2009 CAMP Alumni Graduation Ceremony.

Friday May 8th

Dr. Patricia Keith and 14 students

Title of Keynote Address: Interdisciplinary Studies in Hells Canyon

Biography: Patricia Keith began seriously studying Hells Canyon over 10 years ago when, in collaboration with historian Carole Simon-Smolinski, she produced a video documentary on the early 20th century mining operation at Eureka Bar. In 2005, she lived in the Canyon for one month as a Forest Service volunteer. Currently she is completing a documentary on homesteading and ranching in the Canyon—again in collaboration with Carole. This year she directed the first Hells Canyon Institute Field School.

Dr. Paul Buckley

Title of Keynote Address: Chemistry “Magic” as a Teaching Tool for General Chemistry

Biography: Dr. Buckley has taught General Chemistry and Analytical Chemistry at LCSC since 2004. He earned his Ph.D. from the University of Colorado at Boulder in 1993, and did his undergraduate work at Northern Arizona University in Flagstaff. In addition to holding a teaching position at Hartwick College in New York State for five years, Paul has also been employed as a research chemist for Phillips Petroleum in Oklahoma, as an auditor of state-certified environmental laboratories for the New Jersey Department of Environmental Protection, and as an instructor and analyst at the WSU Nuclear Radiation Center.

Agenda

Wednesday May 6th

9-10:00 Welcome and Keynote Speaker(s): Clearwater/Snake
9-9:10: Introductions: Dr. Chris Riggs & President Dene K. Thomas
9:10-10: **Keynote Speaker #1: Dr. Alan Marshall**

10:00-10:10: Morning Break 1

10:10-11:00 Morning Session #1

1. Clearwater/Snake River: Nursing: Jenna Vincent; Kirsten Klemesrud; Liz Wright; Liz Puckett; Hannah Boersema; Annie Thomson; Nathan Hardin; RaChelle Rollins; Rebekah Davis
2. Selway River: Social Work: Shannon Rauch
3. SUB143: Natural Sciences & Mathematics: Vince Isakson and Yu Jin Jo

10:10-4:00: SUB Solarium: Natural Science Poster Presentations:

BIOLOGY 203: Austin Brown and Katie Fuqua; Chris Brown and Tiffany Brown; Nathan Dugger, Lucas Rouse and Jeff Harris; Kelly Demeyere and Stephanie Groenendyk; Gary Blyleven and Brayton Zipse; Shuai Li, Mandi Edmonson and Meilani Nunez; Anna Vaughn and Katharina Karl; Brian Bollwitt and Paul Martin; **BIOLOGY 392:** Chris Elliot; Ben Lemon; **BIOLOGY 499:** Susan Oyen; **CHEMISTRY 374:** Austin Brown, Kim Fong and Paige Frohock; Rachel Faulkner and Jebadiah Greenwood; Cecilia Gomez and Nash Zebedeo; Jeff Harris; Edgar Rios; Lucas Rouse and Kirsten Smith; Shae Holland; Katharina Karl; Anna Vaughn and Brayton Zipse; John Kucera and Ignacio Morales; Jennifer Spangenberg and Jessica Wittman; **CS450:** Nayan Adhikary; Jake Bradley; Tyler Carson; Russell Darst & Seth Isaacks; Nayan Adhikary; Jake Bradley; Joe Burchette; Samyam Dhakal & Hiroki Nakashima; Stephen Ashley; Russell Darst; Derek Gillis; Tristan Mullis & Josh Swearingen; Whitney Bond; Sebastian Kuhn; Besar Pillana; Keshab Rupakheti; Jason Su; **GEOLOGY 499:** Elsie Kettenberg; **HUM 351:** Tyler Gulliksen; Rosa Bautista and Corrine Shettsline

11:00-11:10: Morning Break #2

11:10-12:00: Morning Session #2

1. Clearwater/Snake River: Nursing: Jesse Billingsley; Renee DeKaye; Chad Edwards; Jesse Holcomb; Danielle Hopkins; Shayla Ingram; Kelsy Riechers; Stephanie Sullivan; Rebecca Winter; Erin Blinn
2. Selway River: Social Work: James Gray

12:00-1:00: SUB Solarium: Psychology Poster Presentations: Christina Browne; Tracie Coy; Shizuka Fukuchi; Chelsea Gentry; Kerstin Hawkes; Deserae Naeole; JoAnne McPheeters; Shinya Taneichi; Amber Zornes

Lunch Break: 12:00-1:00

1:00-2:00: Afternoon Welcome and Keynote Speaker(s):

Clearwater/Snake

1-1:10: Introductions: Dr. Rhett Deissner

1:10-2:00: **Keynote Speaker(s) #2: Dr. Chris Riggs & Dr. Eric Martin**

2:00-2:10: Afternoon Break #1

2:10-3:00: Afternoon Session #1

1. Clearwater/Snake River: Nursing: Sheila Ames; April Christenson; AnneMarie Driver; Holly Hall; Ashli Koehler; Whitney Lingle; Emily Anderson; Susan Boydston; Mary Lee Roberts; Adam Wiscarson

2. Grande Ronde: Nursing: Carlie Browen; Dana Brown; Brennda Frei; Margo Johnson; Nora Kellie; Melany Ratzlaff; Anuja Shrestha; Kellsie Stevenson; Jovita Nelson; Terri Binkley

3. SUB143: Natural Sciences & Mathematics: Lindsey Smith and Abel Kelly; Mai Tsujimoto and Astha Lama; Whitney Lingle

3:00-3:10: Afternoon Break #2

3:10-4:00: Afternoon Session #2

1. Clearwater/Snake River: Nursing: Katie Eldenburg; Karlyn Moore; John Thomas; Ugel Sherpa; Lisa Krieger; Andrea Laursen; William Ash; LueShawntel Yost; Lois Gietler; Tracie Coy; Shelly Crane

2. Selway River: Social Work: Sara Triplett

3. Lochsa River: Business: Team 44-1: Leslie Flerchinger, Mary Watson, Keri Wilson, Yoko Tamai & James McDowell; Team 44-3: Alan Martinez, Yu Kamakari, Javier Bautista & Guye Blood; Team 45-2: Matt Solem, Chase Stelljes, Amanda Dammon, Eric Tuwei & Bruce Arnold

4. SUB143: Natural Sciences & Mathematics: Brian Mallon; Ashley Schneider, Susan Oyen

Thursday May 7th

9-10:00: Welcome and Keynote Speaker(s): Clearwater/Snake
9-9:10: Introductions: Dr. Clay Robinson & Provost Tony Fernandez
9:10-10:00: **Keynote Speaker #3: Dr. Heather Van Mullem & Alyson Peck**

10:00-10:10: Morning Break 1

10:10-11:00: Morning Session #1

1. Clearwater/Snake: Social Science: Margaret Newby; Lewis Pettengill; Joe Powell
2. Selway River: Social Work: Teresa Abel
3. Lochsa River: Kinesiology: Jessica Stimmel & JZ Savage
4. Grande Ronde: Communication: Peggy Hayden; Garrett Pettitt
5. Salmon River: English: Jennifer Marie Smith; Daniel Luke Robinson

11:00-11:10: Morning Break #2

11:10-12:00: Morning Session #2

1. Clearwater/Snake: Social Science: Melissa Riggers; Marybeth Spencer; Bessie Walker; Marty Ross
2. Selway River: Jo Ann Hudson
3. Grande Ronde: Communication: Sophia Miraglio; Jason Turner
4. Salmon River: English: Bud Heywood; Randy Simons

Lunch Break: 12:00-1:00

1:00-2:10: Afternoon Welcome and Keynote Speaker(s):

Clearwater/Snake

1-1:10: Introductions: Dr. Ruth Lapsley

1:10-2:10: **Keynote Speaker #4: Nikol Luther & Octavio Ambriz, Jr**

2:10-3:00: Afternoon Session #1

1. Selway River: Social Work: Chantelle Beveridge
2. Lochsa River: Kinesiology: Seth McCauley & Sadie Short; Pat Murray, Isaac Simmons, & Brad Schwarzenbach
3. Grande Ronde: Communication: Joseph Gamlem; Rosa Bautista
4. Salmon River: English: Bryce Kammers; Don Wilder; Emily Ackerland

3:00-3:10: Afternoon Break

3:10-4:00: Afternoon Session #2

1. Clearwater/Snake: Psychology: Mathew Carlson
2. Selway River: Social Work: Dori Foster
3. Lochsa River: Kinesiology: Rick Reavis; Jamie Chan & Mei Fong
4. Grande Ronde: Communication: Breeana Ragains; Vanessa West

Friday May 8th

9-10:00 Welcome and Keynote Speaker(s): Clearwater/Snake

9-9:05: Introductions: Okey Goode

9:05-10:00: **Keynote Speaker #5: Dr. Patricia Keith & the Hell's Canyon**

Institute: Panel A: Keith Siebler ("The Hells Canyon Mailboat Today"); Carisa Fore ("A Deeper Look"); Jim Janish ("Navigating Current Challenges: Not All the Obstacles are in the River"); Loren ("Using The Short Story To Understand Place")

10:00-11:30 Morning Session #1

1. Clearwater/Snake: Hell's Canyon Institute: **Panel B:** Tyler Gulliksen ("Processing Plant Specimens"); Rosa Bautista ("Interchanging Disciplines"); Corrine Shettsline ("Botany for Beginners"); Dani Diaz ("Permaculture Mapping"); Jonelle McCoy ("Overlooked Art: Portraits of Hells Canyon"). Hells Canyon Institute **Panel C:** Ross Carlton ("A Podcast for the Hells Canyon Institute"); Don Wilder ("Voices and Images from the Hells Canyon Institute"); Jessica Wittman ("Lethal Coexistence: Bighorn and Domestic Sheep in Hell's Canyon"); Rustin Gooden ("Comparative Bird Counts"); Randy Simons ("Learning from a Canyon")
2. Selway River: Social Work: Shawna Knight & Christina Warfield
3. Lochsa River: Kinesiology: Brian Conder; Hiroaki Yokokawa; Ryan Anderson, Matt Stabeifeld, & Dustin Willis
4. Grande Ronde: Communication: Ryan Carter; Andrew Leonard

11:30-12:30: Closing Keynote & Morning Session #2: Clearwater/Snake

Introductions: Dr. Rachel Jameton

1. Clearwater/Snake: **Keynote Speaker #6: Dr. Paul Buckley**

2. Lochsa River: Kinesiology: Ryan Anderson, Matt Stabeifeld, & Dustin Willis (Continued)

Symposium Ends at 12:30p

Abstracts

Business

Author(s): Team 44-1: Leslie Flerchinger, Mary Watson, Keri Wilson, Yoko Tamai & James McDowell; Team 44-3: Alan Martinez, Yu Kamakari, Javier Bautista & Guye Blood; Team 45-2: Matt Solem, Chase Stelljes, Amanda Dammon, Eric Tuwei & Bruce Arnold

Title: How To Structure The Sale of a Computer Simulation Manufacturing Facility

Abstract: As part of the Business Division capstone course, BUS498 Strategy, teams of students participate in a computer simulation game, making decisions and receiving feedback on operating a virtual company with three domestic and one foreign retail operation plus at least one manufacturing plant. After making eight game decisions (the equivalent of two years of operation), teams make presentations designed to sell their companies, expounding on financial ratios and attributes that make their companies desirable acquisitions.

Communication Arts

Author: Rosa Bautista

Title: Language Loss and Decay: A Discourse Analysis of Intergenerational Language Transmission In Multi-Lingual Speaking Hispanic Households

Abstract: This study focuses on young second and third generation Hispanics born to Mexican immigrants from the researcher's emic perspective. Utilizing discourse analysis and personal interviews, I will attempt to gain an understanding of how and why some members within a family have managed to preserve their native language while some have ceased to speak it altogether, but can comprehend nonetheless. The most interesting dynamic however, will be attempting to uncover explanations behind the complete loss of heritage languages while observing code switching behaviors among mixed generations of multi-lingual speaking Mexicans and their children.

Author: Ryan Carter

Title: The New Weird American: The Rhetoric of Lyrical Metaphor in the Music of Sufjan Stevens

Abstract: This study explores the relationship between the themes of all-inclusiveness and humility between folk music and culture, focusing on Sufjan Stevens, a key figure in the New Weird America movement. Through rhetorical analysis of metaphor, Stevens' lyrics were analyzed to make connections to the aforementioned all-inclusive and humble and nature of 1960s-era folk music. Three of his more recent works function as the text for the basis of this research. Examination of these texts will determine what sorts of relationships exist with the culture his music is embedded in.

Author: Joseph Gamlem

Title: To Attack or Acclaim?: A Content Analysis of Television Advertisements in the 2008 Presidential Elections.

Abstract: A study that explores the 2008 Presidential race by analyzing and comparing changes in campaign messages from both John McCain and Barack Obama. A content analysis will compare the first part of the general election to the last week of the election. Emphasis will be on attack and acclaim television advertisements

Author: Peggy J. Hayden

Title: Red Media/Blue Media: Media Consumption in a Divided Society

Abstract: With increasing news media outlets, audiences now can choose media that agrees with their ideology and tune out messages that do not reinforce their belief systems. Researchers such as Harold Laswell and Paul Lazarsfeld have decreed that media has a limited effect on its audience and that in fact, audiences choose their media based on cognitive dissonance (Stone; 1999). For the purpose of this research, a survey was developed to determine how people in the Lewiston-Clarkston Valley and its surrounding region choose news media.

Author: Andrew Leonard

Title: Seeking a Diverse Religious Environment: An Ethnographic Exploration of the Unity Church in Lewiston, Idaho

Abstract: A study that employs ethnography in examining the local congregation of Unity Church within the Clearwater Valley, for the purpose of understanding the role the church plays in the identity of its members. This study seeks insight into the idea of inclusiveness that is popularly associated with and presented by the church. Through the use of interviews of congregation members this study strives to gain a better feel for the culture of Unity Church.

Author: Sophia Miraglio

Title: Anthropocentrism, a theory that shaped a lifestyle: A critical analysis of legislative debate over animal rights testing.

Abstract: Darwin's Origin of Species is the reason for our anthropocentric society. Before the work was published people did not view the world in the same anthropocentric way that they do today. These outlooks that have formed overtime have led to non-human testing, on products that make life more convenient for humans. Anthropocentric ideology has no doubt changed since Darwin's paradigm, and it is my contention that we can get a glimpse of that change by examining the U.S senate debate over animal rights testing. Three debates in particular will be selected to represent three different time periods in the ongoing debate of animal testing.

Author: Garrett Pettitt

Title: A Study of Voter Apathy at Lewis Clark State College

Abstract: A study that explores whether or not voter apathy exists at Lewis Clark State College. This study aims to find out the different voting behaviors amongst students at Lewis Clark State College. The research was conducted using random sampling and utilized an open-ended survey that was distributed to students to gain insight into their voting beliefs and intentions.

Author: Breeana N. Ragains

Title: An Examination of the implications of Divorce

Abstract: This study examines how children of divorce are affected throughout their life, particularly in their adult years. Much of the research is based off of a longitudinal study by Judith Wallerstein and her findings by following children of divorce for 25 years. Interviews will be compared to look for similarities between each participant in this study. I believe one is affected throughout their life by their parent's divorce and this study will examine that hypothesis.

Author: Jason Turner

Title: A Critical Study of the Implementation, Impacts, and Consequences of the No Child Left Behind Act

Abstract: A study aimed at obtaining a better understanding of the federal government's most recent emphasis on education; the No Child Left Behind Act (NCLB). Through a critical eye this study seeks to reveal how this legislation has affected our nation's classrooms. An online survey was distributed to a convenience sample of educational professionals across the country to gain a glimpse of how the Bush Administration's policy altered classroom activities and interactions.

Author: Vanessa West

Title: The Accidental Artist: A Study of the Post-Secret Phenomenon

Abstract: The Post-Secret Project began in November 2004 as a community art project and has grown into a worldwide phenomenon. The Post-Secret project invites individuals to share their secrets anonymously by creating and mailing a postcard. Communication research suggests individuals usually increase disclosure as a relationship progresses; however Post-Secret defies these common trends. Anonymity and the ability to express feelings through art are key components of this new method of sharing. Results of the survey indicate that the level of self-disclosure and anonymity vary from person to person. While anonymity does seem to be a factor, a more overwhelming theme of those surveyed is the relevance of artistic expression

English

Author: Bud Heywood

Title: Ernest Hemingway and the Origins of His Literary Exodus from America to France

Abstract: A New Historicist Criticism examining the influences on Ernest Hemingway's early years that culminated in his expatriation to Paris in 1921. Cultural and social forces molding the young Hemingway included the self-reliance philosophy of Theodore Roosevelt, the Victorian pressure from home to obey God and country, and the nationalistic propaganda in pre-World War I America. Eventually rejecting the ideology of the "Big Words," he forged a new writing style in the City of Light.

Author: Bryce Kammers

Title: Steam: The Societal Machine Illustrated Through Orwell, Zamyatin, and Rice

Abstract: Commenting on totalitarian society and industrialism, George Orwell, Yevgeny Zamyatin, and Elmer Rice use mathematical language and concepts in their literary works in order to illustrate the presence of statistical thinking in over-organized societies. The people in these societies are guaranteed physiological and safety needs, but must forfeit their rights to independent thought and self-expression. Ultimately, it is imagination that derails humans from the automated assembly line that has been established to direct their lives.

Author: Dan Robinson

Title: The Tao of Dickinson

Abstract: The Tao of Dickinson is a comparative study of the poetry of Emily Dickinson and the Tao Te Ching in form and function, specifically looking at each author's meticulous word choice, metaphors, metaphysics, and epistemology in order to "comprehend" the similarities of these author's who are separated by culture, chronology, and country.

Author: Randy Simons

Title: Setting a place for Robert Frost at the table of great American writers

Abstract: A look at how poet Robert Frost has connected with a wider audience than any poet in American history. Frost uses the basic tools of a carpenter to build poems that readers can step inside and "experience" first hand. The poem becomes a portal for Frost to meet his audience in person as they enter the houses he built over fifty years ago.

Author: Jennifer M. Smith

Title: The Bible's Influence on Southern Writing as Evidenced by Flannery O'Connor and James Dickey

Abstract: The Protestant Christian Bible has had a profound impact on southeastern American culture — "the Bible Belt". This, in turn, has had a deep influence on the region's literature. After briefly exploring Bible Belt culture and its impacts on writing, the author then evaluates some common elements of Biblical language and motif, and how they are employed by Flannery O'Connor in her short story "The Comforts of Home", and in two poems by James Dickey.

Author: Don Wilder

Title: Laboratories and Rat Boxes: A Literary History of the Organic and Mechanistic Models of Education

Abstract: Throughout history, two central educational models, the organic and the mechanistic, have been used to understand the nature of education. The models can be detected in the literary work and ideas of figures such as Charles Dickens, Jean-Jacques Rousseau, John Dewey, and B. F. Skinner. The models reflect two separate utopic paradigms. This paper gives an assessment of each model, along with the respective claims offered by their proponents.

Kinesiology

Author(s): Gavin Concepcion & Bryson Tajiri

Title: Does involvement in gambling affect an athlete's morals and ethics decisions and actions in his/her sport.

Abstract: A questionnaire about gambling habits and patterns and the affect of morals and ethics of sport conducted was distributed to 150 plus athlete's and approximately 50% chose to complete the survey. Results and data will be presented at the presentation. This a subsequent study to the Concepcion and Tajiri (2009) publication titled, "A competitive survey dealing with gambling and the affect that it has on a athletes morals and ethics of his/her sport."

Author: Brian Conder

Title: Does a Correlation Exist Between Bone Density and any of the Following Variables: Gender, BMI, Body Composition, and Athletic Participation?

Abstract: The purpose of this study was to analyze bone density data collected by Dr. Clay Robinson and Dr. Mary Lou Robinson in order to determine whether a correlation exists between bone health (measured by QUS and DEXA) and body composition. The data set consisted of 62 female and 47 male college students. A regression analysis between the type of athletic participation, bone density, and body composition was also performed. Results have yet to be determined.

Author(s): Mei Fong and Jamie Chan

Title: An Evaluation of the Effectiveness of Various Sprint Training Techniques.

Abstract: The purpose of this research is to investigate the most effective training in order to improve an athlete's time in the 40-yard dash. The participants in this study were male and female athletes on the LCSC campus. The participants were randomly assigned to sprint drills, plyometric drills, or agility drills. The findings of this study will help collegiate programs determine the most effective training method for sprint time.

Author: Kyle Melton

Title: Strength, Speed and Agility Training in Young Athletes to Develop Coordination, Strength, Mechanics, and Better Hitting Performance.

Abstract: The purpose of this research was to determine if an implementation of a speed, agility, and core strength training program would enhance young athletes hitting over a ten week period. Eighteen Athletes did participate for one hour, twice a week, and pre and post was assessed. T-test and correlation were performed to determine if there was any significant change in their measured variables. The results of the data will be presented at the conference.

Author(s): Patrick Murray and Isaac Simmons

Title: The Correlation of Strength Training and Bat Speed in Baseball

Abstract: A comprehensive evaluation was conducted to determine if a correlation existed between strength training and bat speed in baseball. Advised by Doctor Clay Robinson, research was conducted using ten Lewis-Clark State baseball players to discover which model, variety, and style, if any, of weight training had any correlation to increased bat speed of the participants. Results indicated that proper weight training was correlated to increase bat speed.

Author(s): Sadie Short, Seth McCauley

Title: Academic Dishonesty Between Student-Athletes and Students

Abstract: A survey was created and administered to 100 recruited participants to evaluate reported academic dishonesty. Focus was to determine if student-athletes participate in academic dishonesty more frequently than non-athletes. The survey questions aided in investigating which types of academic dishonesty occur most often, if students work with others to cheat, and if the students are familiar with and/or receive the schools academic dishonesty policy throughout the school year. The results will be presented at symposium.

Author(s): Jessica Stimmel & J.Z. Savage

Title: A Comparative Analysis of Skin Fold Assessment to the Hydrostatic Weighing Assessment.

Abstract: The purpose of this quantitative research study was to determine which of the commonly used skin fold assessments has a stronger correlation to hydrostatic weighing (body composition assessment). Forty participants were recruited, 20 males (10 LCSC athletes and 10 LCSC non-athletes), and 20 females (10 LCSC athletes and 10 non-athletes). An ANOVA was performed to determine if there was any significant difference in mean body composition assessment by group.

Author: Hiroaki Yokokawa

Title: Viva the Supplements!

Abstract: The purpose of this research project was to examine and record the usage of supplement among various individuals and to investigate whether consumption of nutrient supplements was correlated to variables such as age, gender, reported exercise frequency, and participation in athletics. I surveyed 66 randomly selected participants, including 27 men and 39 women, at Lewis-Clark State College. I will analyze the data to determine if there are differences in reported supplement consumption by group.

Author(s): Dustin Willis, Ryan Anderson, Matt Stabelfeld

Title: A study to investigate improvements in velocity and accuracy of High School Pitchers when introduced when practicing proper warm up, mechanics, and arm-rehabilitation.

Abstract: Our study was conducted over the course of an eight week training program in which the athletes threw an average of two bullpens a week. These high school baseball players ages 15-18 participated in our research after warming up properly and practicing fundamental mechanics, followed by a basic conditioning routine. During the early stages improvements have been subtle in the athletes. It is our expectation that the average individual(s) will improve their velocity by 3-5% and their accuracy by 6-8%. These numbers are based on these early increases in the first three sessions, but data is still pending.

Natural Sciences

Author: Nayan Adhikary, Jake Bradley, Tyler Carson, Russell Darst, Seth Isaacks

Title: Emerald Garden Quilt Shop

Abstract: Emerald Garden Quilt Shop is a project to create an informational website that allows users to browse and get information about the shop.

Author: Nayan Adhikary, Jake Bradley, Joe Burchette, Samyam Dhakal, Hiroki nakashima

Title: Holly's Online Quilt Shop

Abstract: Holly's Online Quilt shop applies concepts from Human Centered Design studies and advanced database topics to a real world consumer website. We have created an eCommerce site that allows users to browse and purchase quilting supplies over the Internet.

Author: Stephen Ashley, Russell Darst, Derek Gillis, Tristan Mullis, Josh Swearingen

Title: Grade Books Made Easy

Abstract: We have developed a quick and easy way of managing a web-based grade book database system.

Author: Rosa Bautista, Tyler Gulliksen and Corrine Shettsline

Title: "Botany for Beginners: An Exploration into Hells Canyon"

Abstract: Our main objective is to share with others the methodologies used to collect, process and identify plant specimens. As we explored the Canyon in early spring we followed the procedures used by field botanists to adequately preserve plants. We learned what data has to accompany a sample and how samples are mounted and kept for future reference. We also identified the samples and finally integrated one sample into Hells Canyon Herbarium collection at LCSC.

Author: Gary Blyleven & Brayton Zipse

Title: Going Bee Deep with Brassica rapa: An Investigation into Mendelian Genetics and Mutations.

Abstract: The research was focused on growing and observing the expected phenotypic ratios of F2 Brassica rapa progeny, along with demonstrating the variable mutant properties between petite and dwarf genotypes in reference to their varying response to the growth hormone gibberellic acid.

Author: Brian Bollwitt and Paul Martin

Title: Alternation of generations in the c-fern life cycle

Abstract: Alternation of generations is displayed by the lifecycle of the c-fern. Haploid spores were planted which developed into the gametophyte, possessing a monoecious prothallus. The sperm from the antheridium swims to the archegonium to fertilize the egg. Gametophytes with developing zygotes were then planted to allow the diploid sporophyte generation to develop. The mature sporophyte is what produces the spores, which start the cycle over again.

Author: Whitney Bond, Sebastian Kuhn, Besar Pillana, Keshab Rupakheti, Jason Su

Title: Seaport Quilters Guild

Abstract: The Seaport Quilters Guild website is out-of-date. We are redesigning the site and developing the tools to make updating easy and user friendly.

Author: Austin Brown and Katie Fuqua

Title: Speedy Genes with *Brassica rapa*

Abstract: A research project was undertaken to better understand Mendel's dihybrid cross, using Wisconsin Fast Plants. The experiment involved planting an F1 generation and pollinating it to produce an F2 generation. Results were observed and compared to those of a commercial F2 generation to determine if the desired 9:3:3:1 ratio occurred.

Author: Austin Brown, Kim Fong, and Paige Frohock

Title: The effect of calcium cations with dextran

Abstract: Dental plaque consists of salivary inorganic substances such as calcium and phosphate, along with *Streptococcus mutans* bacteria. As metal ions bind to the dextran molecules in the cell membrane of the bacteria, calcification and plaque formation occurs. Over a three month period, the relations between dextran and calcium ions were investigated through gravity filtration and EDTA titration.

Author: Tiffany Brown and Christopher Brown

Title: The Life Cycle of *Ceratopteris richardii*

Abstract: An observation of the alternation of generations of the fern *Ceratopteris richardii* (C-Fern), and the identification of three associated mutants. Participants sowed spores from a wild-type C-Fern in order to observe each stage of the life cycle. Three different mutants were randomly sown in separate Petri dishes and grown until they reached the gametophyte stage, during which participants identified each mutant species by discerning specific characteristics. The stages of the alternation of generations of the C-Fern, and the mutants, were successfully identified.

Author: Kelly DeMeyere & Stephanie Groenendyk

Title: Examination of phenotypic ratios for test crosses and response to growth hormones in *Brassica rapa*.

Abstract: The fast plant *Brassica rapa* is widely studied today because of its ability to grow and germinate quickly. In this study, the fast plant was studied in two different ways. First, phenotypic characteristics were observed between heterozygotic crosses to observe genotypic ratios. Secondly, the effect of the hormone gibberellin was observed on two mutants of *Brassica rapa* – dwarf and petite. Dwarf plants grew taller in the presence of gibberellin, whereas petite plants did not.

Author: Nathan Dugger, Lucas Rouse, and Jeff Harris

Title: The Development and Life Cycle of C-Ferns

Abstract: The C-Fern (*Ceratopteris richardii*) has a simple, easy to understand life cycle. The general purpose of the research was to understand the different parts of the C-Fern life cycle. The alternation of generations in the life cycle was followed through the germination and development of the plant. Every week the changes in the development of the plant were recorded. In addition, three mutants were observed and identified.

Author: Amanda Edmonson, Meilani Nunez, and Shuai Li

Title: Exploring the Life Cycle and Mutations of *Ceratopteris richardii*

Abstract: The life cycle of *Ceratopteris richardii* (C-fern) was observed in order to identify the alternation of generations between sporophyte and gametophyte. Three mutant types were also determined based on differing characteristics in the gametophyte generation with the wild type. The “highly male” mutant displayed only antheridia, while the “maleless” mutant formed gametophytes with both antheridia and archegonia. The “polka dot” mutant had a distinct pattern of photosynthetic and non-photosynthetic tissue.

Author: Chris Elliott

Title: Asbestosis

Abstract: Asbestosis is a primarily occupational lung disease, resulting from chronic or acute exposure to airborne asbestos fibers. Asbestos is a natural mineral that once in the body, resists efforts of the immune system to digest them. As the fibers reach the alveoli and persist, the immune system causes fibrotic scars, which decreases, gas transfer at the affected membranes. Though use is now limited, asbestos is in older products and is still a public health concern.

Author: Rachel Faulkner and Jebadiah Greenwood

Title: Organic Solar Energy Harvesting

Abstract: A solar cell was constructed using organic dye in harnessing photons from the sun to convert into electrical energy. The cell used conductive glass with annealed TiO₂ dyed in blackberry juice to absorb energy from the sun in order to advance an electron from its ground state orbital into its excited state. This procedure produced a maximum of 40mV of energy, in comparison to the original method which produced 300-500mV.

Author: Cecilia Gomez, Nash Zebedeo

Title: The temperature effects of isoprene emission on *Dryopteris erythrosora*

Abstract: This research investigated how temperature affects isoprene emission rate on *Dryopteris erythrosora*. It is thought that higher temperature stresses will cause the plant to emit more isoprene to protect the photosynthetic activities of that plant. The fern was exposed to different temperatures and also exposed to environments with multiple heat fluctuations. Isoprene emission was measured with gas chromatography. The preliminary results show that *D. erythrosora* does not emit isoprene at room temperature.

Author: Vincent Isakson

Title: A Paleomagnetic Test of the Multiple Flood Hypotheses for the Pleistocene Slackwater Deposits of the Missoula Flood(s), Tammany Creek Idaho

Abstract: There has been considerable debate whether Pleistocene Missoula Flood deposits represent a single event, occurring over a short time period, or multiple events that spanned thousands of years. A paleomagnetic study of secular variation (direction to magnetic north with respect to time) was used to differentiate between the single and multiple flood hypotheses. Measurement of five silt beds shows unequivocal evidence for at least three major excursions indicating long time intervals between individual flood events.

Author: Yujin Jo and Vincent Isakson

Title: pH Dependence of the Release of Sediment-Bound Heavy Metals

Abstract: The pH dependence of the release of sediment-bound heavy metals, particularly Mercury, Lead and Arsenic, in Lake Coeur d'Alene, ID was analyzed. The heavy metal contaminated sediments from Lake Coeur d'Alene were exposed to a gradient of pH regimes in an attempt to assess how pH levels affect the release, and potential mobilization, of the metals from the sediments. Atomic absorption spectrometry was used to quantify the differing amounts of metals released from the sediments

Author: Katharina Karl, AnnaMarie Rose Vaughan, IraShae Holland, Brayton Zipse

Title: Stank Stopper!

Abstract: The research involved an investigation into utilizing cyclodextrins to encapsulate the bacterial generated human odor molecule, propanoic acid. We measured the effectiveness of beta-cyclodextrin on propanoic acid through competition experiments with benzoic acid. Preliminary results indicated that over time (4 days) beta-cyclodextrin can effectively encapsulate detectable amounts of propanoic acid, with best results obtained in acidic solution buffered at a pH of 4.75.

Author: Abel Kelley & Lindsey Smith

Title: Colonoscopies Are Crappy, But Colon Cancer Kills

Abstract: Colorectal cancer is the third most prevalent cancer in the world and the second leading cause of cancer deaths in the United States. In many patients, symptoms manifest themselves only after the cancer has reached an advanced stage. Routine screening for this disease facilitates early detection and treatment, thereby significantly lowering its mortality rate. This review aims to increase public awareness of the symptoms, risk factors, prevention, and treatments associated with colorectal cancer.

Author: Elsie Kettenburg

Title: Determining the number of backwater deposits from glacial lake Missoula flood(s) that impacted the Lewis-Clark Valley

Abstract: A long standing question regarding the Pleistocene Missoula flood(s) in the Pacific Northwest has been the number of flood events recorded in sedimentary deposits. I have employed standard sedimentology techniques and magnetic susceptibility to examine the flood rhythmites at Tammany bar, Idaho. The stratigraphic column will tell the history of deposition and provenance of material. Initial findings indicate multiple flood events.

Author: John Kucera & Ignacio Morales

Title: Isolation of Lysozyme from Egg White

Abstract: Lysozyme is a globular protein consisting of 129 amino acids largely found in food products and body secretions. After its discovery, this enzyme was the subject of extensive research due to its antibacterial properties. In this research project, we isolated hen egg white lysozyme from locally grown eggs using cation exchange chromatography. The amount of lysozyme extracted from the egg white was determined through absorbance assays using *Micrococcus lysodeikticus* cell walls as the substrate.

Author: Astha Lama & Mai Tsujimoto

Title: The scare behind Avian Flu

Abstract: Avian Flu is a bird disease that is also transmissible to humans. The H5N1 subtype has the highest mortality rate among humans. The epidemiology involved in the risk of the avian flu outbreaks to the human population as well as possible preventative measures will be addressed in this presentation.

Author: Ben Lemon

Title: Chemicals in Toys cause Reproductive Harm

Abstract: Phthalates are used to soften plastics that are used in toy production. Phthalates can be testicular toxicants, which becomes a concern when children are exposed by playing with their toys. This is to inform the public about the dangers of phthalates and to argue that we should remove them from toys.

Author: Whitney Lingle

Title: The Misconceptions and Effects of Hansen's Disease

Abstract: Hansen's disease, commonly known as Leprosy, is a devastating disease that causes destruction of nerves. It has generally been misrepresented in media as a very contagious disorder passed through simple touch of an infected person. This project aims to disprove these misconceptions and discuss the route of transmission, symptoms, who is generally affected, as well as treatment options and what is currently being done in research regarding this disorder.

Author: Brian Mallan

Title: Mercury in vaccines

Abstract: The CDC is increasing the number of recommended vaccinations for children. Many of these vaccinations contain mercury. Evidence shows that children are more susceptible to heavy metal poisoning than adults. The CDC determined that blood lead levels of 10 µg per dL should prompt public health action. This presentation is set to address the dangers of increased exposure of mercury to children. Could the intentional injection of children with mercury be causing serious unrecognized problems?

Author: Susan G. Oyen

Title: Hidradenitis suppurativa

Abstract: Often misdiagnosed, hidradenitis suppurativa is a chronic and debilitating condition of apocrine gland-bearing epithelium. Abscesses, sinus tracts and significant scarring lead to physical and psychological distress. Misdiagnosis or patient embarrassment may delay intervention and require treatment both more painful and more invasive. Since treatment in the first stage of HS is the most successful, our goal is to inform the public about this condition so that they may be better informed patients or caregivers.

Author: Susan G. Oyen & Dr. Heather Henson-Ramsey

Title: Use of a Dynamic Model System to Evaluate the Bioaccumulation of Contaminants in Food Chains

Abstract: This project investigates the use of a dynamic model to estimate malathion bioaccumulation in a food chain and tests the ability of the model to make predictions assuming that a limited number of animal subjects are available for parameterization. Using an earthworm, *Lumbricus terrestris*, and salamander species, *Ambystoma tigrinum*, this research evaluates if bioaccumulation will occur in the salamanders when exposed to two possible sources of malathion: soil contamination and ingestion of a contaminated earthworm.

Author: Edgar Rios, Jeff Harris, Kirsten Smith and Lucas Rouse

Title: The Efficiency of Using Different Alcohols to Create Biodiesel

Abstract: Biodiesel is a common diesel fuel substitute that can be synthesized from vegetable oil, animal fats, and waste products. The point of the project was to synthesize biodiesel using soybean oil. Three different alcohols were used to synthesize three different samples of biodiesel, and then a bomb calorimeter was used to determine which alcohol produces the most efficient biodiesel.

Author: Jen Spangenberg & Jessica Wittman

Title: Multiple Wavelength Degradation of Organic Dyes and the Investigation of Ascorbic Acid as a Photo-protectant

Abstract: Ultra-violet, Infra-red and Visible light were used to investigate the photo-degradation of organic dyes, Methylene Blue and Malachite Green. Dye treatments were prepared in aqueous solutions of hard mineralized water as well as nano pure water. Treatments were subjected to UV, IR, and Visible wavelengths for 96 hours. Degradation of each dye treatment was analyzed by concentration using an absorption spectrometer. Data was collected in 24 hour increments following an initial recording. Subsequent treatments of Methylene Blue were treated with Ascorbic acid and ethanol for the investigation of a photo-protectant and a reactant interference control, respectively.

Author: Ashley Schneider

Title: Dengue Fever: Less Exotic Than You May Think.

Abstract: Dengue fever and its more lethal variant, Dengue hemorrhagic fever, are a concern for travelers to South America. Traveling in these areas has led to approximately 150 cases of the disease introduced to the U.S. each year. With the increasing prevalence of the Dengue vector, the *Aedes aegypti* mosquito, we may begin to see a rise in endemic illness in the U.S. This presentation will discuss Dengue in an effort to educate the public about this possible health threat.

Author: Ashley Schneider, Heather Henson-Ramsey

Title: The development of a reliable biomarker of organophosphate effect in two earthworm species.

Abstract: The goal of our current research was to develop a reliable biomarker of organophosphate exposure in earthworms and as such, have measured enzymes associated with cholinesterase suppression, butyrylcholinesterase and acetylcholinesterase, and metabolism, carboxylesterase. These metabolic biomarkers were compared to organophosphate tissue levels in two species, *Lumbricus terrestris* and *Eisenia foetida*. Carboxylesterase has been shown to be the most promising of the three enzymes as a biomarker of organophosphate exposure.

Nursing & Health Sciences

Author(s): Sheila Ames, Emily Anderson, Sue Boydston, April Christenson, AnneMarie Driver, Holly Hall, Ashli Koehler, Whitney Lingle, Mary Roberts, Adam Wiscarson

Title: Educating Mental Health Professionals and Paraprofessionals Regarding Type II Diabetes Prevention for Schizophrenic Clients who use Antipsychotic Medications

Abstract: Research demonstrates a correlation between atypical antipsychotic use and increased risk for Type II Diabetes in schizophrenic individuals. In response, an educational workshop on Type II Diabetes prevention in schizophrenia was developed and delivered by a student nurse team to mental health employees of two service agencies (n=38) to encourage prevention efforts (i.e. medical screening, diet, exercise) with schizophrenic clientele. Pre-/post-test surveys were utilized for evaluation, and results demonstrate effective learning occurred ($p < 0.01$).

Author(s): William C. Ash , Tracie A. Coy , Shelly R. Crane, Katherine M. Eldenburg, Lois I. Gietler, Lisa M. Krieger, Andrea M. Laursen, Karlyn E. Moore, Ugel Sherpa, John C. Thomas, Lue Shawntel I. Yost

Title: Nurses for Disaster Planning in Rural Communities

Abstract: The purpose of this study was to evaluate the need for natural disaster planning in the communities of Kendrick and Juliaetta, Idaho. Over 20 residents' knowledge and perceptions of natural disasters were evaluated. Educational presentations, a grant proposal, and material from the American Red Cross and FEMA were used to assist the community in becoming more prepared in the future event of a natural disaster.

Author: Jesse Billingsley, Erin Blinn, Renee DeKaye, Chad Edwards, Jesse Holcomb, Danielle Hopkins, Shayla Ingram, Kelsy Riechers, Stephanie Sullivan, & Rebecca Winter

Title: LCSC Nursing Students Working Toward the Prevention & Awareness of Methamphetamine Use in Local Teenage Populations (In Partnership with the Idaho Meth Project)

Abstract: Research was conducted on methamphetamine (“meth”) use by local Idaho teenagers. Subsequent results/findings were summarized and compiled into instructional formats for Lewiston 7th grade students. Written surveys completed both prior to and following educational presentations revealed that teenagers had a heightened awareness of meth-related issues, including (but not limited to) ingestion methods, physiological and psychological side-effects of short- and long-term meth use, and the escalating presence of meth in the Lewiston valley.

Author(s): Terri Binkley, Carlie Browen, Dana Brown, Brenn Frei, Margo Johnson, Nora Kellie, Jovita Nelson, Melany Ratzlaff, Anuja Shrestha, Kellsie Stevenson

Title: Availability of Prenatal Care and Treatment for Addicted Pregnant Women in the Lewiston-Clarkston Valley.

Abstract: An exploratory study to determine the availability of adequate prenatal healthcare for drug addicted pregnant women in the Lewiston-Clarkston Valley. Individual agencies were interviewed to determine the extent of resources available. Results concluded there are services available; however, they are limited and difficult to access. In efforts to increase awareness and advocate for this population, a brochure was created and will be available for the public at a variety of locations in the Lewiston-Clarkston Valley.

Author: Elizabeth Puckett, Hannah Boersema, Elizabeth Wright, Kirsten Klemesrud, RaChelle Rollins, Rebekah Davis, Nathan Hardin, Jenna Vincent, Annie Thomson

Title: Peer teaching: The implementation of Teens Against Tobacco Use (TATU) in Colfax, Washington

Abstract: As part of the nursing curriculum at Lewis Clark State College, students were called upon to perform a community evaluation using the health assessment model Mobilizing for Action through Planning and Partnerships. The student advocacy group identified the youth of Colfax, Washington as a vulnerable population and advocated for the youth by implementing the program Teens Against Tobacco Use. The program is designed to use peer-to-peer education to spread the anti-tobacco message.

Psychology

Author: Christina N. Browne

Title: Is There a Link Between Parental Strictness and Young Adult Substance Abuse?

Abstract: This research project was performed to determine a link between levels of parental strictness and substance abuse in young adults. Approximately 230 LCSC students currently enrolled in a variety of class levels and class subjects were administered a five-page standardized questionnaire during their regular class times. This questionnaire was designed to measure levels of parental strictness and warmth, as well as drug and alcohol use during adolescent and young adult years.

Author: Matthew Carlson

Title: Value Correlations of Lewiston Citizens and Lewiston City Council

Abstract: This study examined the correlation between elected representatives and their constituents. Utilizing a survey of Lewiston citizens' perceptions of the 'strategic plan' of the Lewiston city council, members as well as their collective values were assessed. The survey results were gathered using demographic quota sample utilizing known characteristics of the target population and weighing the survey respondents accordingly by demographic information. This survey was conducted through the internet.

Author: Tracie A. Coy

Title: Do Nursing Students Engage in Healthier Lifestyles than College Students in Other Majors?

Abstract: A self-created pen and pencil survey completed by over 250 college students was used to determine which majors (nursing, biology, psychology, education, business, and psychology) practiced more health habits. It was hypothesized that nursing students would engage in healthier lifestyles than non-nursing majors. Results of this study can be useful in determining the amount and content of personal health education that is taught in the nursing program and college classes in general.

Author: Shizuka Fukuchi

Title: Difference in Self-Esteem Between American and Japanese College students

Abstract: This research was conducted to see whether there is any difference in self-esteem between American and Japanese college students. This study also investigated a link between levels of self-esteem and modesty. 40 males and 45 females participated for American sample, 20 males and 34 females participated for Japanese sample. Data is still being analyzed.

Author: Chelsea L. Gentry

Title: Married College Students: Happier than Single College Students?

Abstract: This research project focuses on the relationship between levels of happiness among married college students in relation to unmarried college students. A survey containing the Subjective Happiness Scale created by Susan Lyubomirsky, and 6 demographic questions, were administered to 329 LCSC undergraduate students in various classes. The results of this research show that married LCSC college students do in fact rate their happiness level higher than single LCSC college students.

Author: Kerstin A. Hawkes and Desrae Naeole

Title: ADHD in Teens and Young Adults

Abstract: Attention Deficit-Hyperactivity Disorder (ADHD) is very common today in teens and young adults. This is a comparative study designed to find out whether teens and young adults diagnosed with this disorder perceive negative consequences in a different way compared to those who have not. The data was gathered by conducting interviews with teens age 14 to 18 and young adults aged 18 to 25, to learn how they react and think during different situations.

Author(s): JoAnne McPheeters

Title: A Comparative Evaluation of Parents who are Active in Drug Prevention in their Children vs. Parents who are not active in Drug Prevention in their Children.

Abstract: A comparative evaluation of Parents who are Active in Drug Prevention in their Children vs. Parents who are not active in Drug Prevention in their Children has never been studied in Lewiston Idaho before. Results of other studies from around the USA indicate parents are an indicator of drug use. This is an independent study never before done in Lewiston Idaho.

Author: Shinya Taneichi

Title: Historical Change of Motive in Serial Homicides

Abstract: This senior research project attempted to manifest motivation aspects of serial homicides. I focused on two time ranges: a range from 1870 to 1939 and the other from 1940 to 2006. In comparing the two groups (one group has 58 samples, and the other has 59 samples) in terms of historical trend of motivation in serial homicide, this research manifested how the trend has altered through a recent century.

Author: Amber L. Zornes

Title: The Impact of Substance Abuse on Nontraditional Students and Their College Enrollment

Abstract: A self-created survey completed by over 100 college students was used to determine what nontraditional students have to overcome more barriers in order to succeed compared to a traditional student. One obstacle that hinders the nontraditional student is substance abuse. A pattern of drug usage behavior based on the life experiences of nontraditional students and the overall positive or negative impact on the nontraditional students' college goals and plans based upon their own circumstances and choices.

Social Sciences

Author: Margaret Lea Newby

Title: Housework and Household Technology—How It Has

Abstract: A look at the history of housework and how technological advancements changed it. Examines how housewives did their work before American industrialization and how they did it after industrialization introduced advanced household technology. This study shows that technology had a profound affect on housework and housewives. It also shows that while some of the drudgery and chores of housework have been eliminated, the hours housewives put into doing housework have not necessarily been reduced.

Author: Lewis E. Pettengill

Title: Autonomy and the Restoration of Self-determination to the American Tribal Nations

Abstract: A study examining the colonial and paternalistic suppression of indigenous peoples in North America by European invaders. It examines the four hundred years of struggle against assimilation and the total destruction of Native traditions and culture. It shows how a people can be reduced to poverty, dependence, and near extinction when marginalized and concentrated onto small reservations. It proposes a model where sovereignty and independence can be restored through the establishment of Autonomous Zones where ancient models of governance can be practiced.

Author: Melissa R. Riggers

Title: Gender in Early Anthropology

Abstract: The following examines early professional female anthropologists and how they helped shape the fieldwork of today's anthropology discipline. In researching the biographies and works of many great anthropologists, in particular the ethnographic compilations of Margaret Mead, Ruth Benedict and Zora Neale-Hurston, I was able to examine case studies by each woman and discover the significance of women going into the field to conduct anthropological research.

Author: M.Tyger Spencer

Title: The Prophecy of the Seventh Generation by Lakota leader Crazy Horse

Abstract: "I see a time of seven generations when all the colors of mankind will gather under the sacred Tree of Life...there will be those among the Lakota who will carry knowledge and understanding..." Leadership within the Lakota Seventh generation will entail a spiritual foundation that is rooted in ceremonial traditions guided by the four virtues of the Lakota way, which will help in the healing and revitalization of an indisposed Lakota people.

Author: Bessie Elise Walker

Title: Political Attitudes regarding the Nez Perce Language and Culture: Why is it Irrelevant?

Abstract: The proposal of my research is to be based around the Nez Perce Tribe (re) gaining more knowledge about the importance of "protecting and sustaining" the Nez Perce Language in a dysfunctional American society. Perhaps then political authority figures, who can make these decisions, will (re) integrate the NPL for Nez Perce reservation children.

Social Work

Author: Teresa L. Abel

Title: Utilizing Coping Skills: Reducing Binge Eating Episodes in Individuals with Mental Illness

Abstract: The purpose of this study is to determine whether individuals with mental illness can reduce binge-eating tendencies by adopting the Wellness Recovery Action Plan (WRAP) into their lifestyles. Participants (n=8) have chronic mental illness and are currently being served by the ACT Team of Lewiston, Idaho. Furthermore, these participants were identified as having binge eating tendencies. 87.5% of the clients reported they would continue to use the WRAP Program to reduce binge-eating episodes.

Author: Chantelle Beveridge, Dr. Brian L. Christenson, &Ms. Lynne Bidwell, MLS

Title: Academic Integrity and Honesty in Higher Education: Findings and Practice Implications for Higher Education

Abstract: The purpose of this research study was to identify, explore, and "seek to understand" current levels of academic integrity, dishonesty, and plagiarism in higher education in the United States. Furthermore, this study sought to identify and explore if academic integrity, dishonesty, and plagiarism education is meeting the needs of adult learners in higher education in the United States. Over 50% of college student participants (n=760) admitted to cheating or plagiarizing during the completion of their degree. Information from this study will be used to make program recommendations.

Author: Dori Foster

Title: Baccalaureate Education Assessment Project: Field Placement Assessment Instrument Evaluation

Abstract: A mixed-methods study to evaluate student performance in their field placement by their field instructor. This study will seek to determine if the field instructors for Lewis-Clark State College feel like their interns are competent in the area of critical thinking, values and ethics, diversity, social justice, history and policy, generalist practice, human behavior in the social environment, research communication, and supervision and work skills. This pilot study will utilize a measurement of central tendency using Likert scales and non-identifying demographics to evaluate the deficit and strengths in field instruction.

Author: James W Gray III

Title: Treatment of Adolescents with Co-Occurring Mental Health and Substance Abuse Issues: A Pilot Study to discover and Inform Best Practice

Abstract: A mixed methods experiential subjective survey of therapist's opinions regarding best practice in treating adolescents with co-occurring disorders was conducted in the spring of 2009. Results indicate that adolescent children presenting with co-occurring disorders is a relevant problem in the Lewiston and Clarkston valley, and that treating each disorder simultaneously, and family participation are equally important for treatment success.

Author: Jo Ann Hudson

Title: Generational Effects of Substance Abuse

Abstract: The purpose of this study is to explore and understand the effects that substance abuse has on children and families throughout generations. Ten adult participants completed a survey focusing on generational effects of substance abuse (n=10). Key findings include 100 percent of participants reported being arrested for alcohol or drug use, 100 percent stated that brothers/sisters and uncles/aunts used alcohol or drugs, and 80 percent were exposed to alcohol or drug use by at least one or both parents.

Author: Shawna Knight & Christina Warfield

Title: Independent Living Region II: Teaming up with Emancipating Youth for a Brighter Future

Abstract: An evaluation of the efficacy of the Independent Living program in Idaho's Region II. This study was a replication of Dr. Brian Christenson's 2003 study. This study analyzed data of 19 (n) foster youth that emancipated from care during the fiscal years 2003-2008. Data analyzed consisted of education attainment, employment, dependency on social services, homelessness and childbearing rates. Results indicate the Independent Living program is ineffective in comparison to Dr. Brian Christenson's previous study.

Author: Shannon Rauch

Title: Encouraging Self-Efficacy Utilizing Resident Discussion Groups

Abstract: An exploratory Activities Survey seeks to identify resident's activity preferences, feelings regarding socialization and friendship, and likelihood of seeking out socialization opportunities without staff involvement. A Resident Discussion Group provided an opportunity for building self-efficacy through strengthening communication skills, encouraging self-expression, and demonstrating problem solving skills. Participants were Idaho State Veterans' Home residents. Results indicate that although socialization is important to most; friendships are often few. Individual activity preferences are seldom attainable with limited staff and resident health issues

Author: Sara Triplett

Title: The Children and Adolescent Functional Assessment Scale: Measuring Child Behavior Improvements at Northwest Children's Home

Abstract: The purpose of this research, using the Children and Adolescent Functional Assessment Scale (C.A.F.A.S.), was to measure the improvement levels of specified behaviors at designated time intervals during a child's stay at the Northwest Children's Home. The participants involved in this study were 5 randomly chosen children that have been given the C.A.F.A.S. by a certified and trained professional at admittance, once at four months, and at discharge. Key findings indicate a 35 percent positive child behavior improvement rate from admission to discharge.

Keynote & Invited Presentations

Title of Keynote Address: Chemistry “Magic” as a Teaching Tool for General Chemistry

Author: Paul T. Buckley, Ph.D. Associate Professor of Chemistry Lewis-Clark State College

Abstract: Chemistry “magic” demonstrations are a lot of fun to watch. Most everyone likes to see a good explosion, or solutions that turn pretty colors, or things that pop and fizz. Some of my favorite demonstrations will be presented along with explanations of how these “magic” shows are used to reinforce concepts in the General Chemistry classroom.

Bio: Dr. Buckley has taught General Chemistry and Analytical Chemistry at LCSC since 2004. He earned his Ph.D. from the University of Colorado at Boulder in 1993, and did his undergraduate work at Northern Arizona University in Flagstaff. In addition to holding a teaching position at Hartwick College in New York State for five years, Paul has also been employed as a research chemist for Phillips Petroleum in Oklahoma, as an auditor of state-certified environmental laboratories for the New Jersey Department of Environmental Protection, and as an instructor and analyst at the WSU Nuclear Radiation Center.

Title of Keynote Address: Interdisciplinary Studies in Hells Canyon

Author(s): Patricia Keith and 14 students

Abstract: Recognizing LCSC’s unique location at the mouth of the country’s deepest gorge (Hells Canyon of the Snake River), the Hells Canyon Institute provides an interdisciplinary approach to the study of our local environment. Faculty from humanities, history, geology, and botany joined students in an intensive, field-based course during Spring Break 2009. During their residence at the Nature Conservancy’s Garden Creek Ranch in Hells Canyon, students gathered materials for the research projects presented today.

Bio: Patricia Keith began seriously studying Hells Canyon over 10 years ago when, in collaboration with historian Carole Simon-Smolinski, she produced a video documentary on the early 20th century mining operation at Eureka Bar. In 2005, she lived in the Canyon for one month as a Forest Service volunteer. Currently she is completing a documentary on homesteading and ranching in the Canyon—again in collaboration with Carole. This year she directed the first Hells Canyon Institute Field School.

Title of Keynote Address: The Ultimate Catch: Strengthening LC's Advising and Retention Net

Author: Nikol Luther, Associate Director of Career & Advising Services
Octavio Ambriz, Senior, Business Administration

Abstract: Research shows that inadequate academic advising is the primary negative characteristic linked to student attrition. This does not mean advisors are inept, but that as an institution we may not be effectively addressing the needs of our ever-changing student population. This presentation will address retention issues, the growing at risk population, current attitudes toward advising roles and responsibilities from both the student's and advisor's perspective, and how advisors can adapt to meet the needs of LCSC students in an effort to boost retention rates.

Title of Keynote Address: Niimiipuu Studies: From Basic Research to Applied Anthropology

Author: Dr. Alan Marshall (Anthropology; WSU 1977)

Biography: Professor Marshall earned his Ph.D. in cultural anthropology from Washington State University (Pullman, WA) in 1977 for ethnographic research with members of the Nez Perce Tribe of Idaho. His dissertation, *Nez Perce Social Groups: An Ecological Interpretation*, described the interaction of Nez Perce families with their landscapes. After working at North Dakota State University and Boise State University, he joined the faculty at Lewis-Clark State College (Lewiston, ID) in 1979. He is currently Professor of Anthropology in the Social Sciences faculty. His work focuses on the relationship between human groups and their environments. Recent work includes providing written and oral testimony regarding Nez Perce water rights in the Snake River Basin Adjudication; land issues in Wallowa County, Oregon; and hunting rights cases. Recent publications include "Fish, Water, and Nez Perce Life" *Idaho Law Review* 42 (3): 763-793 (2006); "Socrates Meets Two Coyotes" *Journal of Philosophical Research* 25: 459-469 (co-author: Kurt Torell) (2000); and "Unusual Gardens: The Nez Perce and Wild Horticulture on the Eastern Columbia Plateau," *in Northwest Lands and Peoples: An Environmental History*. Dale D. Goble and Paul Hirt (Eds.). Seattle: University of Washington Press, pp. 173-187 (1999).

Abstract: Basic research into the relationship between Niimiipuu (Nez Perce) people in the mid-1800s and their environment reveals how deeply intertwined local "resources" and Niimiipuu society was. The treaties of 1855, 1863, and later even more confiscatory agreements disrupted these relationships and the course of Nez Perce society, but did not end it. Niimiipuu have continued to maintain and revitalize those relationships in a variety of venues, including the courts. The information revealed by that basic research is relevant to continuing issues regarding natural resources and society as is seen in the author's application of that research to the Snake River Basin Adjudication and the revitalization of the Wallowa Band of Nez Percés.

Title of Keynote Address: The Promise and Perils of History Research on the Web

Authors: Chris Riggs and Eric Martin

Abstract: This presentation examines the opportunities and difficulties of historical research in the Digital Era. The Internet undoubtedly has benefitted historians. The proliferation of digitized documents, electronic discussion networks, and podcasts has made a wide array of information about the past much more readily accessible. Nevertheless, there are significant problems with web-based historical research, including vast amounts of un-digitized material, a lack of context for historical documents, and the fragility of digital sources.

Title of Keynote Address: Content Analysis of Images on Media Guide Covers of Female Student-Athletes Competing at the NCAA Division-II, NCAA Division-III and NAIA Levels

Authors: Dr. Heather Van Mullem & Alyson Peck

Abstract: Despite the growth of girls and women's participation in sport since the passage of Title IX in 1972 (Women's Sports Foundation, 2008), sport continues to be a contested environment for its female participants (Messner, 2002). It has been "...argued that media representations of athletic females were a powerful vehicle for subverting any counterhegemonic potential posed by sportswomen. Scholars should therefore examine 'frameworks of meaning' linked to female athletes because they have become 'contested terrain'" (Kane & Buysse, 2005, p. 214). Previous research has focused on images of athletes presented in sports magazines (Fink & Kensicki, 2002), on newscasts (Duncan, Messner & Cooney, 2000), on NCAA Division-I sport marketing posters (Maxwell & LaVoi, 2007), and on NCAA Division-I media guides (Kane & Buysse, 2005). However, little focus has centered on the portrayal of female athletes competing outside of NCAA Division-I institutions.

Therefore, the purpose of this study is to examine the images of female student athletes competing in volleyball, soccer, softball and basketball presented on the covers of media guides at selected conferences at the NCAA Division-II, NCAA Division-III, and NAIA competitive levels. Results will be compared to data generated during previous studies.

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