



OFFICE OF STUDENT RESEARCH
&
OFFICE OF GRADUATE STUDIES

PRESENTS

Second Annual Symposium “Meeting of the Minds”
&
27th Annual CSUSB Student Research Competition

February 27th, 2013

Santos Manuel Student Union

9:00 AM- 7:30 PM

California State University, San Bernardino

California State University, San Bernardino
The Office of Student Research
&
The Office of Graduate Studies
2nd Annual Student Research Symposium
& 27th Annual CSUSB Student Research Competition
February 27, 2013

Presented By

Dr. Francisca Beer
Dr. Jeffrey Thompson

Sponsored By

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The Student Success Fee

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Ms. Shelby Reeder	Graduate Studies/ Thesis Reviewer
Ms. Natasha Smith	Graduate Admissions/ Administrative Assistant
Ms. Lynda Pacheco	Graduate admissions/ Graduate Admissions Evaluator

Welcome Notes



It is with a great pleasure that we welcome students and faculty of California State University, San Bernardino to our 2nd Annual Symposium. The purpose of the 2nd Annual Symposium is to recognize the various academic achievements of our students and our faculty mentors. Our students across the various colleges at California State University San Bernardino will have the honor of showcasing their research projects and creative activities for all to see. We are very proud of our students willing to share their research projects and creative activities. We would also like to acknowledge our faculty mentors who took the time and made an effort to guide and nurture their students' academic and creative impulses. In closing we hope that everyone who attended had a great time and are encouraged to participate in future symposiums.

Dr. Jeffrey Thompson
Dr. Francisca Beer

Agenda

Registration

8:30 a.m. - 4:30 p.m.

Location: Event Center

Welcome

9:00 a.m.-9:30 a.m.

Location: Theatre

President Morales

Dr. Francisca Beer

Arts & Letters Performance

9:30 a.m. - 10:00 a.m.

Location: Theatre

Opera Theatre Ensemble--- Hay Fever

Director Dr. Tom Provenzano

Judith Shannon Galuszka

Simon Ian Wagstaff

Sorel Lisa Parker

David Jesse Cowser

Clara Rachel Davenport

Sandy Jeremy Apodaca

Myra Sandra Rice

Jackie Katie Campbell

Richard John Harnetieux

CSUSB Student Research Competition (Part 1)

10:10 a.m. - 12:00 p.m.

Location: SMSU 207-208/210-211

Workshops

10:00 a.m. – 11:00 a.m.

Introduction to Graduate Studies & APA Basic - Presenter: Maria Domingo

Location: 211

11:00 a.m. - 12:00 p.m.

Steps to Becoming a Graduate Student- Presenter: Laura Tracey

Location: 207

11:00 a.m. – 12:00 p.m.

Introduction to a PhD Program – Presenter: Dr. Charles Hoffman and Dr. Kelly Campbell

Location: 215

11:30 a.m.- 12:00 p.m.

FAFSA & Scholarship- Presenter: Financial Aid Office

Location: 211

Posters Presentation

10:10 a.m. – 6:00 p.m.

Location: Event Center B

Lunch Break/Registration

12:00 p.m. – 12:50 p.m.

Location: Event Center B

Keynote Speaker Dr. Sergio D. Iniguez

1:00 p.m. - 1:30 p.m.

Location: Theatre

Student Oral Presentations (Part 1)

1:40 p.m. – 3:00 p.m.

SMSU 215, 216, 217 and 218

CSUSB Student Research Competition (Part 2)

1:40p.m. – 3:00 p.m.

Location: SMSU 207-208/210-211

Student Oral Presentations (Part 2)

3:20 p.m. – 5:20 p.m.

Location: 215 and 216

CSUSB Student Research Competition (Part 3)

3:20p.m. – 5:20 p.m.

Location: SMSU 207-208/210-211

College of Education Oral Presentations

4:30 p.m. – 6:00 p.m.

Location: 218

Creative Writing Student Poets

5: 30 p.m. - 6:00 p.m.

Location: Event Center C

Director Dr. Juan Delgado Rosie Alonso

Elisha Holt

Ashley Hayes

Steffany Thomas

Natalie Skeith

Meghan McCarthy

Nicole Rivas

Reception

6:00 p.m.—7:00 p.m.

Location: Event Center C

Award Ceremony

7:00 p.m.—7:30 p.m.

Location: Event Center C

Arts & Letters Performance



Opera Theatre Ensemble: Hay Fever

Legendary actress Judith Bliss has just invited a flirtatious friend to spend the weekend at her quaint, country estate. Unfortunately, so has her husband. And so has her son. And so has her daughter. Noël Coward's witty and precise comedy of bad manners follows the antics of the Bliss family, as couples switch partners, amateur theatre gets butchered, and relationships go awry. But as the dust of the chaos settles, who will end up with whom-Will love prevail over absurdity? And is anyone ever going to serve the tea?

Director of Opera Theatre Ensemble

Dr. Tom Provenzano



Dr. Tom Provenzano is Professor of Theater Arts at California State University, San Bernardino, specializing in acting, voice, speech, directing and children's theatre. He has directed his own adaptations of Macbeth, Hamlet, Charles Dickens: Great Expectations and Just So Stories as well as productions of Ah, Wilderness!, Six Degrees of Separation Electricidad, The House of Blue Leaves, Blithe Spirit, Rumors, Night Must Fall and Eastern Standard. His production of Resa Fantastiskt Mystiskt was invited to the 2001 Kennedy Center/American College Theater Festival (KC/ATCF). Professor Provenzano received his MFA in Theater from UCLA in 1992. In 1984, with Teresa Love, he created Imagination Company, a children's theater touring schools and libraries throughout California. Professor Provenzano wrote and directed several of the troupe's productions, including the company's highly successful Alice in Wonderland and Big Bad Riding-Wolf and the ugly Step-Pig as well as The Sorcerer's Apprentice. He is also a respected theater journalist in Southern California. He reviews theater for the LA Weekly, second only to the LA Times in Southern California circulation. He also writes interviews and theater profiles for LA Stage Magazine.

Cast

Judith	Shannon Galuszka
Simon	Ian Wagstaff
Sorel	Lisa Parker
David	Jesse Cowser
Clara	Rachel Davenport
Sandy	Jeremy Apodaca
Myra	Sandra Rice
Jackie	Katie Campbell
Richard	John Harnetieux

Keynote Speaker

Dr. Sergio D. Iniguez



Dr. Iniguez joined the CSUSB Faculty in summer 2011, and currently teaches Biological Psychology and Behavioral Neuroscience. Prior to completing his Ph.D. in Neuroscience from Florida State University, he earned his B.A. and M.A. in Psychology here at CSUSB. Dr. Iniguez' research, using animal models, examines how exposure to stress and/or psychotropic drugs (such as Prozac) during early development results in long-lasting functional and biochemical changes in response to stress in adulthood. The overall goal of his research is to better understand how the developing brain responds to environmental, pharmacological, and genetic insults that may result in pathological conditions later in life. Dr. Iniguez has published his work in the top academic journals of his field, including *The Journal of Neuroscience*, *Biological Psychiatry*, and *Neuropsychopharmacology*.

Title of Presentation:

Prozac Exposure During Adolescence Modulates Responses to Cocaine in Adulthood

Abstract: The long-term behavioral and neurobiological consequences of exposure to psychotropic drugs during early development are not well understood. To address this issue, in my laboratory, we study the potential enduring effects of early-life exposure to Prozac, a selective serotonin reuptake inhibitor, on behavioral reactivity to aversive or rewarding stimuli in adulthood, using animal models. Specifically, I will be presenting recent data indicating that Prozac exposure during adolescence results in alterations to the rewarding effects of drugs of abuse, such as cocaine, later in life.

Poetry Reading

Dr. Juan Delgado

Mexican American poet Juan Delgado first started coming to the United States with his family when he was a child. He attended California State University, San Bernardino, where he studied accounting before discovering writing and majoring in English. He earned an MFA from the University of California, Irvine, where he was a Regents Fellow. Delgado's collections of poetry are *Green Web* (1994), selected by poet Dara Weir for the Contemporary Poetry Prize at the University of Georgia; *El Campo* (1998); and *A Rush of Hands* (2003). His poems have been included in the anthology *Touching the Fire: Fifteen Poets of Today's Latino Renaissance* (1998). Another book coming out next October, entitled *Vital Signs and Lavish Weeds*, a collection of poems and photos from Thomas McGovern. Delgado's work often portrays the realities of the immigrant experience, with its attendant poverty, hardships, and love. In *El Campo*, Delgado's poems about Mexican farmworkers and their families are accompanied by paintings by Simon Silva. Rosa Martha Villarreal, reviewing *A Rush of Hands for Tertulia*, noted the "muted images of personal sorrow and terrified wonder," adding that Delgado "takes images from the community of shadows, the undocumented immigrants, and gives substance to their being." Delgado has been poet-in-residence at the University of Miami. He is a professor of creative writing, Chicano literature, and poetry at the California State University, San Bernardino.

Students Poets

Ashley Hayes
Steffany Thomas
Rosie Alonso

Meghan McCarthy
Elisha Holt
Natalie Skeit

2nd Annual Symposium “Meeting of the Minds”

Student Presentation abstracts Poster and Oral Presentation¹

Presenter: Danielle Marie Chavez (Poster and Oral Presentation)

Program: College of Business and Public Administration, Management, Accounting and Finance, BA

Faculty Sponsor: Dr. Breena Coates

Title: From Charity to CSR

Abstract: Businesses and their use of corporate power in a democratic society is becoming more influential. There has been a move from charity to corporate social responsibility. I examined the critical arguments for and against corporate social responsibility, recognizing socially responsible best practices emerging from the research.

Presenter: Emilia Escobar (Poster and Oral Presentation)

Program: College of Natural Sciences, Biology, BS

Faculty Sponsor: Dr. Belisario Ventura

Title: Analysis and Comparison of Protected and Exploited Toothshell (*Nerita scabricosta*) on the Pacific Coast of Costa Rica

Abstract: Tooth snails, *Nerita scabricosta* (Gastropoda: Neritidae) are gathered for food along the Pacific coast of Costa Rica. Snails reside on both vertical and horizontal surfaces of rocky intertidal beaches. We assessed snail density, size distribution, and spatial dispersion pattern of these snails at three sites with progressively decreasing levels of protection from human access.

¹ All participants are in alphabetical order by last name.

Presenter: Juan Franquez (**Poster and Oral Presentation**)

Program: College of Social and Behavioral Sciences, Criminal Justice, BA

Faculty Sponsor: Dr. Gisela Bichler

Title: We Be Drinkin’

Abstract: This is a study of place management and design of problematic bars and nightclubs. Site observations of 87 bars and 17 nightclubs resulted in robust indicators of crime and disorder in respective settings. This study also tests a new crime and disorder indicator- public notoriety as measured by yelp.com.

Presenter: Marion de Riviere de La Mure, Valentine Cereza, Lou Lebrun-Gonnet (**Poster and Oral Presentation**)

Program: College of Business and Public Administration, International Business,

Faculty Sponsor: Dr. Jason Ryan

Title: Destination Branding for Foreign Direct Investment

Abstract: The project examines whether countries are branding themselves and how they attract foreign direct investment.

Presenter: Marlana Hernandez (**Poster and Oral Presentation**)

Program: College of Social and Behavioral Sciences, Psychology, BA

Faculty Sponsor: Dr. Sharon Ward

Title: Measuring College Success by Student Resiliency and High School Academic Performance Index Scores

Abstract: A correlational relationship between CSUSB students’ past high school API scores and their present resiliency factors may create a measure to better determine college success. It is hypothesized that past high school API scores will influence college success. Therefore, student that come from high performing API high schools paired with high individual resiliency factors will have more college success and a higher GPA.

Presenter: Shan-Ju Ho (**Poster and Oral Presentation**)

Program: College of Business and Public Administration, Public Administration, MPA

Faculty Sponsor: Dr. Ya Ni, Dr. Francisca Beer

Title: Analyzing the Demand and Supply of E-Government Service: A Case of Bilingual Services on California Websites

Abstract: The current e-services provision is lack of taking the demands of citizens into consideration. The U.S. Census 2011 for the nation shows that the Hispanic population will comprise of 16.7% of the population. The shift is dramatic especially in the State of California, which the Hispanic population will become a minority for 38.1% of total population. In general, the government agencies in California counties and cities have not developed much of bilingual services. By using correlation analysis, this research tests the hypothesis that the current e-services provision for 478 California cities and 58 California counties is more supply-driven than demand –driven. Finding the current e-services not reflecting the needs of California residents, this research also provides insights into the best practices of e-government around the world; one is Singapore (bilingual website); Seoul of South Korea (citizen-oriented website). Our findings will contribute to providing practical lessons for public practitioners to improve e-service delivery.

Presenter: Jessica Joneson (**Poster and Oral Presentation**)

Program: College of Natural Sciences, Biology, Masters

Faculty Sponsor: Dr. Tomasz Owerkowicz

Title: The Role of the Caudofemoralis Longus Muscle in Alligator Locomotion

Abstract: To determine the function of the Caudofemoralis Longus, a well developed muscle in the tails of reptiles with sprawling gaits, we cut the tendon to the CFFL in juvenile American alligators. Altered animals exhibited no changes in loco motor patterns based on before and after footage, and compared to controls.

Presenter: Balaji Kannan (**Poster and Oral Presentation**)

Program: College of Business and Public Administration, Info Management, MBA

Faculty Sponsor: Dr. Breena Coates

Title: An Examination of the Impact of CSR in Technology-Driven Society

Abstract: Companies have to survive in the competitive business landscape field by constant need for monetary growth and the changing societal needs. Technology used to address regulatory needs can make the difference—help make organizations socially sustainable or break them into oblivion.

Presenter: Alberto Acenedo and Samuel Marrujo (**Poster and Oral Presentation**)

Program: College of Natural Sciences, Mathematics, BS

Faculty Sponsor: Dr. Belisario Ventura

Title: Radio Number for Fifth Power Paths

Abstract: Let G be a connected graph and for any two vertices, u, v , let $d(u,v)$ be distances in G . The maximum distance is called the diameter of G , $\text{diam}(G)$. Then we find a radio labeling of G such that the inequality $|f(u)-f(v)| \geq \text{diam}(G) - d(u,v) + 1$ holds. The radio number is the minimum span in G . We will discuss the progress made towards finding the radio number for the 5th power graph.

Presenter: Racheal Morgan (**Poster and Oral Presentation**)

Program: College of Social and Behavioral Sciences, Anthropology, BA

Faculty Sponsor: Dr. Kathy Nadeau

Title: Disparity in Western Comics: A Reflection of Values and Crime

Abstract: Sociocultural aspects influence media including comics. Differences come from views of what criminal behavior is culturally. Belgians have a “black and white” view: Americans see crime relative to motivations. Cultural perceptions of “crime” explain the ability to distinguish opinions on moral values and criminality.

Presenter: Christopher Ramirez (**Poster and Oral Presentation**)

Program: College of Natural Sciences, Computer Engineering, BS

Faculty Sponsor: Dr. Haiyan Qiao

Title: Exploration of Robotic Systems with Microcontroller

Abstract: To learn about the fields of engineering, mechatronics, and software development through a series of hands on activities in constructing, wiring, and programming an autonomous robot.

Presenter: Ines M. Stewart (**Poster and Oral Presentation**)

Program: College of Business and Public Administration, Business Administration, EMBA

Faculty Sponsor: Dr. Breena Coates

Title: Strategizing for Corporate Responsibility: A Wells Fargo Case Analysis

Abstract: The research explores Wells Fargo’s use of corporate social responsibility strategy through qualitative data research, the comprehensive corporate social responsibility framework, and SWOT analysis. Findings, conclusions, and recommendations to stakeholders will be discussed.

Presenter: Michelle J. Stone (**Poster and Oral Presentation**)

Program: College of Social and Behavioral Sciences, Psychology, BA

Faculty Sponsor: Dr. Sergio Iniguez

Title: Prozac ® Exposure During Adolescence Impairs Spatial Memory Performance in Adulthood.

Abstract: Within the adolescent population, there has been an increase in the prescription rates of the antidepressant Prozac ®. The current study was designed to examine for potential long lasting spatial memory related deficits as a result of chronic exposure to Prozac during adolescence, using C57Bl/6 mice.

Presenter: Kenneth Williams (**Poster and Oral Presentation**)

Program: College of Natural Sciences, Computer Science, MS

Faculty Sponsor: Dr. Keith Schubert

Title: Accurate Skull Alignment for Radiosurgery

Abstract: I compared three image registration algorithms for skull alignment during radiosurgery. The process of image registration consists of aligning a transformed image against its reference image. The primary concerns of this research were efficiency and accuracy. For this presentation, a stock image is used due to patient privacy

Poster Presentation

Presenter: Matthew Arias (**Poster Presentation**)

Program: College of Social and Behavioral Sciences, Psychology BA

Faculty Sponsor: Dr. Michael Lewin

Title: Cognitive Vulnerability for Anxiety: A Comparison of Competing Models

Abstract: The study examined four competing cognitive vulnerability models of anxiety (i.e. Vulnerability to Harm-Schema Model, Looming Cognitive Style, Anxiety Sensitivity, and Fear of Negative Evolution.) Results revealed that these cognitive models significantly mediated the relationship between recollections of dysfunctional parenting and current anxiety. Implications and future research will be discussed.

Presenter: Mary Arroyo (**Poster Presentation**)

Program: College of Social and Behavioral Sciences, Psychology and Human Development, BA

Faculty Sponsor: Dr. David Chavez

Title: The Influence of Family Acceptance on Mental Health among LGBT Individuals

Abstract: It has been found that support can have a buffering impact regarding poor mental health and health risk behaviors in the LGBT community; whereas unsupportive behavior can lead LGBT individuals to engage in risky behavior. It was hypothesized that family acceptance would increase positive outcomes, specifically self-efficacy, self esteem, and general health. Additionally, it was expected that it would also be negatively associated with negative outcomes, specifically substance abuse, psychological distress, and suicide ideation.

Presenter: Bridgit Berney (**Poster Presentation**)

Program: College of Social and Behavioral Sciences, Psychology, BA

Faculty Sponsor: Dr. Kelly Campbell

Title: Negative Couple Rituals: A Qualitative Study

Abstract: This study seeks to expound upon one type of couple behavior, negative couple rituals, which are defined as repeated behaviors that partners enact together. Central themes from participation responses will be presented. The association with commitment and relational satisfaction will be examined.

Presenter: Mauricio Cadavid (**Poster Presentation**)

Program: College of Education, Education, Ed. D.

Faculty Sponsor: Dr. Marita Mahoney

Title: Education Technology in Kindergarten

Abstract: This research looked at the implementation of educational technologies (iPad and iPod Touch) used in a kindergarten classroom to teach students to learn to read and write. The three main areas covered in the literature include learning and institution, curriculum, and educational technologies.

Presenter: Gracie Cervantes and Emmett Campbell (**Poster Presentation**)

Program: College of Natural Sciences, Chemistry, BA

Faculty Sponsor: Dr. James Noblet

Title: Jar Test Study on the Use of Aluminum for Turbidity and Nutrient Removal in Canyon Lake, CA

Abstract: Aluminum Sulfate was used to remove both turbidity and nutrients from the water in Canyon Lake, CA.

Presenter: Elisabeth Cook (**Poster Presentation**)

Program: College of Natural Sciences, Biology, Masters

Faculty Sponsor: Dr. Tomasz Owerkowicz

Title: New Experimental Model to Investigate the Effects of Augmented Intra-cardiac Shunt

Abstract: The cardiovascular shunting seen in non-avian reptiles has many hypothesized adoptive functions all lacking in substantial support. In my current research I am developing a new model in *varanus exantematicus* (Savannah Monitors) to study/ investigate the hypothesized functions further.

Presenter: Regie Felix (**Poster Presentation**)

Program: College of Natural Sciences, Bioinformatics, BS

Faculty Sponsor: Dr. Arturo Concepcion

Title: Analyzing EEG Data of Alcoholic Patients Using Time Series Analysis and Machine Learning Techniques

Abstract: Time series are data take in time intervals. This analysis can predict future data in three steps: preprocessing, analysis, and diagnostics. Time series classification uses machine learning (decision trees and artificial neural networks) to classify a dataset. We analyzed EEG data of alcoholics and non-alcoholics to predict their status.

Presenter: Amanda Gonzales (**Poster Presentation**)

Program: College of Social and Behavioral Sciences, Psychology, BA

Faculty Sponsor: Dr. Janet Kottke

Title: The Role of Primacy and Recency Effects and Need for Cognition in a Simulated Structured Interview

Abstract: Different biases occur in structured interviews. We will be examining two important biases: primary and recency effects. Both of which can influence an interviewer's response based on when information is presented. We will examine difference in ratings of a fictitious applicant due to order of question/answer placement. Also, participant's level of need for cognition will be measured as a moderating variable for primacy and recency effects.

Presenter: Cheyenne Hosseini (**Poster Presentation**)

Program: College of Social and Behavioral Sciences, Psychology, BA

Faculty Sponsor: Dr. Kelly Campbell

Title: Relationships of Olympic Athletes at the Games: Media Vs. Research Reports

Abstract: This presentation will compare the relationships of Olympic athletes from two perspectives, media and research. Recent reports indicated that once athletes are staying in Olympic Village, sexual encounters are abundant. A majority of athletes reported being exclusively focused on their sport, although a small number commented on prospective romantic.

Presenter: Kristen Jensen (**Poster Presentation**)

Program: College of Arts and Letter, English Literature, BA

Faculty Sponsor: Dr. Luz Elena Ramirez

Title: Bennet Girls on Film: A Pride and Prejudice Adaptation Study

Abstract: A study of various adaptations on Jane Austen's novel, Pride and Prejudice.

Presenter: Nicole Leitner (**Poster Presentation**)

Program: College of Social and Behavioral Sciences, Psychology, BA

Faculty Sponsor: Dr. Kelly Campbell

Title: Are Expensive Weddings More Satisfying?

Abstract: Do the high costs and elaborateness associated with weddings pay off in terms of wedding ritual satisfaction? The current study predicted that married people's satisfaction in their wedding rituals would increase in conjunction with cost and elaborateness. Results will be presented.

Presenter: Jessie Nelson (**Poster Presentation**)

Program: College of Social and Behavioral Sciences, Psychology, BA

Faculty Sponsor: Dr. Kelly Campbell

Title: Interpersonal Chemistry in Friendship and Romance

Abstract: Chemistry refers to an instant connection between two individuals. Our goal is to identify, underlying components of interpersonal chemistry in friendships and romantic relationships. Participants responded to an online questionnaire that included open ended questions regarding chemistry. Data were coded using constant comparative method.

Presenter: Alexander Ojeda (**Poster Presentation**)

Program: College of Social and Behavioral Sciences, Psychology, BA

Faculty Sponsor: Dr. Michael Lewin

Title: Early Maladaptive Schemas, Personality, and Aggression

Abstract: The object of this study was to examine the relationship between gender, the five factor model of personality traits, and cognitive vulnerability factors, i.e. , early maladaptive schemas as predictors of verbal and physical aggression.

Presenter: Veronica Perez (**Poster Presentation**)

Program: College of Natural Sciences, Chemistry, BS

Faculty Sponsor: Dr. Laura Newcomb

Title: Cell Type Difference in Role of Host Nxf1 for Influenza NPmRNA Nuclear Export

Abstract: Influenza invades cells to replicate itself by sending mRNAs to the nucleus so they can be made into proteins. But, mRNA nuclear export requires protein interaction. Our research shows that the flu NPmRNA is neither Nxf1-mediated or not Nxf1-mediated, depending on cell type.

Presenter: Tessy Pumacahua (**Poster Presentation**)

Program: College of Social and Behavioral Sciences, Psychology, BA

Faculty Sponsor: Dr. James C. Kaufman

Title: Creativity, Impulsivity, and Borderline Traits

Abstract: The purpose of this study is to investigate the relationship between impulsivity and creativity. Another goal of this study is to also compare the creative abilities of individuals with high levels of BPD traits to a control group, through the use of different creative measures.

Presenter: Jose M. Ramirez (**Poster Presentation**)

Program: College of Natural Sciences, Biology and Biochemistry, BA, BS

Faculty Sponsor: Dr. Laura Newcomb

Title: An Influenza N-Terminal Nucleoprotein Mutant Reveals Roles of Influenza NS Proteins in Viral Gene Expression

Abstract: Using a truncated Influenza Nucleoprotein that is defective in viral replication and transcription, we can reveal the role of influenza NS protein in viral replication and transcription. Our current work shows NS proteins rescue the defect of our mutant Nucleoprotein at the level of translation.

Presenter: Anita Sahagian (**Poster Presentation**)

Program: College of Natural Sciences, Biology, BS

Faculty Sponsor: Dr. Laura Newcomb

Title: Characterization of Two Influenza Nucleoprotein Body Domain Mutants

Abstract: The purpose of this study is to characterize an NP mutant, Npbd3, designed to disrupt interaction with viral RdRP. NPbd3 is defective for viral mRNA transcription and viral RNA replication. We aim to identify any NP interaction that are altered in the presence of NPbd3 in order to identify potential antiviral targets.

Presenter: Meriam Sahak (**Poster Presentation**)

Program: College of Social and Behavioral Sciences, Psychology and Human Development, BA

Faculty Sponsor: Dr. Kelly Campbell

Title: Love and Athletic Performance: A Pilot Study with Collegiate Athletes

Abstract: We examined the possibility that athletes who are “in love” may perform better in athletic activities, because both love and athletics involve intense focus on rewarding outcomes. After assessing the athletes through performance tasks and having them think of love, we found positive results for our hypothesis.

Presenter: De Andra Salley (**Poster Presentation**)

Program: College of Natural Sciences, Mathematics, BS

Faculty Sponsor: Dr. Belisario Ventura

Title: VLBA Observations of H₂O Masers Around the Evolved Star W434K

Abstract: We present observations and preliminary results of H₂O maser emissions in the circumstellar envelope of the evolved star W434K, obtained by the very large baseline array at the three epochs from 2003 to 2004 with time spacing between 2-3 months. By observing the masers with this time spacing, the change in position can be determined. Moreover, by determining the motion and estimating the maser shell thickness, we should be able to calculate the mass loss rate of the evolved star.

Presenter: Brittney Sandoval (**Poster Presentation**)

Program: College of Natural Sciences, Chemistry, BA

Faculty Sponsor: Dr. Kimberley Cousins

Title: Green Conversion of Eugenol to Isoeugenol

Abstract: Eugenol is used in the flavor and fragrance industry and also used as a model reaction for isomerization of allylic to vinylic ph bonds. Conversion can be made greener by substituting water for most of ethylene glycol. This ensures the least amount of waste.

Presenter: Yessenia Silva (**Poster Presentation**)

Program: College of Social and Behavioral Sciences, Psychology, BA

Faculty Sponsor: Dr. Michael Lewin

Title: Creativity, Mental Health, and Metacognition.

Abstract: The study investigated creativity and other variables such as depression and mood. Additionally we investigated self measures including personality, need for cognition, creative self efficacy, creative metacognition, and self esteem. Participants also completed actual creative performances across three domains and a metacognition measure for each task.

Oral Presentation

Presenter: Daniel G. Ayala (**Oral Presentation**)

Program: College of Arts and Letter, Liberal Studies, BA

Faculty Sponsor: Dr. Katherine Thomerson Bird

Title: Teaching off the Wall

Abstract: Using creativity in the classroom to motivate children to learn. This is exemplified by bulletin boards and interactive boards/walls that challenge the child to learn and feel as if they are accomplishing the skills the teacher wants them to learn.

Presenter: Negin Baghdadchi (**Oral Presentation**)

Program: College of Natural Sciences, Biology, MSC

Faculty Sponsor: Dr. Nicole Bournias

Title: Serum Starvation Increases the Transfection and Differentiation Efficiency

Abstract: Induced pluripotent stem cells and human pluripotent stem cells are starved with SI and DSI KOSR serum. The results showed that 2 day starvation with SI KOSR serum causes significant increase in differentiation and nucleofection efficiency.

Presenter: Juanita Williams, Harpreet Uppal, Evelyn Knox, Felipe Barha (**Oral Presentation**)

Program: College of Education, Education and Counseling, MS

Faculty Sponsor: Dr. John Winslade

Title: Undercover Anti-Bullying Teams

Abstract: The research focuses on bullying as an external relation phenomenon that draws the people who get directly and indirectly entangled in them. The analysis inquired whether peers are an effective option that counselors, teachers, and school administrators can rely on to eradicate bullying in school which differ from traditional authoritarian and punitive strategies.

Presenter: Courtney Doussett (**Oral Presentation**)

Program: College of Education, Education, Ed.D.

Faculty Sponsor: Dr. Marita Mahoney

Title: Promoting Student Engagement through Physical Activity

Abstract: Helping elementary school teachers to use physical activities to promote on-task behavior, student engagement, and motivation. How 5-minute physical activity bursts aid students to focus and engage on targeted cognitive activities.

Presenter: Liane R. Greaver (**Oral Presentation**)

Program: College of Natural Sciences, Biology, MS

Faculty Sponsor: Dr. Anthony Metcalf

Title: Geographic Population Structure of *Rhinichthys Osculus*, the Santa Ana Speckled Dace, among Southern California Watershed Habitats

Abstract: Genetic descriptions of *Rhinichthys osculus* remain incomplete. Utilizing intron sequences in nuclear DNA, taxonomic relationships will be examined among neighboring watershed populations including Southern California, Owens River, and Central Coast. The study analyzes three introns to determine if sufficient genetic differentiation has occurred to consider each of its own taxa.

Presenter: Jose R. Gonzalez (**Oral Presentation**)

Program: College of Business and Public Administration, Information Assurance and Security Management, MBA

Faculty Sponsor: Dr. Conrad Shayo

Title: QueuePay.com Building a System for Cardholder-Transaction Security

Abstract: New method to prevent unauthorized payment card transactions. A cardholder will be able to place payment card transactions on a queue as a method of preauthorization before initiating a transaction with a merchant. The queue will act as a new variable to complete an authorized transaction.

Presenter: Dr. Aja Henriquez (**Oral Presentation**)

Program: College of Education, Educational Leadership, Ed.D.

Faculty Sponsor: Dr. Louie Rodriguez

Title: "I Hope To Be A Symbol Of Encouragement": Using CRAFT in Community Colleges to Facilitate Student Voice in the Remedial Studies Debate

Abstract: Current changes of remedial coursework in higher education have been influenced by economic and political pressures, while students affected by these changes are a wealth of insight on student success. This research facilitates student voice in order to inform decision-making regarding "remedial students."

Presenters: La Resha Lyles, Sandra Kellmer, Sherece Jefferson (**Oral Presentation**)

Program: College of Education, Educational Leadership. Ed.D.

Faculty Sponsor: Dr. Donna Schnorr

Title: Neurofeedback

Abstract: The study associated with this presentation explored seven cases of individuals who were struggling with inattention and focus, some of whom had been diagnosed with ADHD or PTSD. Pre and Post scores were administered using the Integrated Visual and Auditory Continuous Performance Test (IVA). Observations and Interviews were also used for explanatory purposes.

Presenter: Graham Kaplan (**Oral Presentation**)

Program: College of Social and Behavioral Sciences, GE Psychology, MA

Faculty Sponsor: Dr. Cynthia Crawford

Title: Effects of Juvenile Methylphenidate Exposure on Cocaine Self Administration and Escalation in Adult Rats

Abstract: Methylphenidate is a highly prescribed psycho-stimulant for the treatment of ADHD; however, little is known about its long term effects. The present study tested an animal (rodent) model with self-administration paradigm to assess the impact of juvenile methylphenidate exposure on cocaine seeking behavior in adulthood.

Presenter: Amandeep Kaur (**Oral Presentation**)

Program: College of Natural Sciences, Biochemistry, BS

Faculty Sponsor: Dr. David Maynard

Title: Unmasking the Mysteries of the Mosaics

Abstract: Mayan artifacts, obtained for the National Museum of the American Indian Smithsonian Institute, were analyzed by the spectroscopic methods and found to contain copal.

Presenter: Kamelle Leggette (**Oral Presentation**)

Program: College of Social and Behavioral Sciences, Anthropology, BA

Faculty Sponsor: Dr. Kathy Nadeau

Title: The Perception and Power of Crime Films

Abstract: The following research applies Boren's theory "that the over exposure of crime films induces criminal activity within that society." By analyzing post-Rwandan genocide crime films from a cultural anthropological perspective, contrary to Boren's theory, Rwandan crime films are used to socially reconstruct a society, by means of reconciliation, acceptance and psychological ventilation.

Presenter: Meredith Lujan (**Oral Presentation**)

Program: College of Natural Sciences, Biology, Masters

Faculty Sponsor: Dr. Nicole Bournias and Dr. Chee Gee Liew

Title: Directing Neural Retina Cell Fates from Human Pluripotent Stem Cells

Abstract: This projects will use both human embryonic and induced pluripotent stem cells to generate retinal cells by utilizing well-characterized pathways first identified in early animal model studies.

Presenter: Suu Elen Manzano (**Oral Presentation**)

Program: College of Business and Public Administration, Business Administration, BS

Faculty Sponsor: Dr. Breena Coates

Title: Benefit Corporation, Flexible-Purpose Corporation, and the certified B Corporation

Abstract: Explanation of flex-purpose, benefit corporation, and B-lab as a response to corporate social responsibility (CSR). How far will California go to legally express their commitment to CSR? The new laws and certification are more encompassing of social and environmental activities in corporations.

Presenter: Elena Martinez (**Oral Presentation**)

Program: College of Arts and Letters, Communication, MA

Faculty Sponsor: Dr. Bradford Owen

Title: Redemption and Ridicule: Wyclef Jean, Sean Penn, and Western/Haitian Diasporic Understanding of Celebrity Activism in Post-Earthquake Haiti

Abstract: A textual analysis was conducted of US news representatives of American celebrity activism in Haiti as well as online discussion by the Haitian Diaspora concerning the same relief work, themes of representation and identified and post-colonial implications are discussed.

Presenter: Jonathan Maule (**Oral Presentation**)

Program: College of Arts and Letters, English, BA

Faculty Sponsor: Dr. Luz Elena Ramirez

Title: First, Do No Harm: The Power of a Good Title in Native American Bildungsromans

Abstract: The essay analyzes Sherman Alexie's "Smoke Signals" and Louise Erdrich's "Tracks," and by comparing and contrasting key passages, illustrates how both titles complicate and reinforce four literary themes-destruction and regeneration, power and prestige, the oral tradition, and initiation. Both texts are then situated within a larger context of loss and renewal within Native American Bildungsromans.

Presenter: Nelson A. Membreno (**Oral Presentation**)

Program: College of Natural Sciences, Biology, MS

Faculty Sponsor: Dr. Tomasz Owerkowicz

Title: Importance of the Calcareous Eggshell to Normal Development in the American Alligator

Abstract: Crocotelians and birds lay heavily mineralized eggs as opposed to the leathery eggs of other amniotes. The mineralized layer of experimental American alligator eggs was removed and experimental eggs were incubated alongside control eggs. Results show that experimental hatchlings were smaller and had larger yolk sacs than hatchlings.

Presenter: Raymond Albert Miller III (**Oral Presentation**)

Program: College of Social and Behavioral Sciences, National Security Studies, MA

Faculty Sponsor: Dr. Mark T. Clark

Title: The Role of Ideology in Negotiation and Conflict Resolution During the Tuareg Rebellions

Abstract: The work traces the four Tuareg Rebellions in Mali after the French Occupation and discovers the role that ideology played during those rebellions to present.

Presenter: Ryan Minor (**Oral Presentation**)

Program: College of Social and Behavioral Sciences, Social Science, MA

Faculty Sponsor: Dr. Tiffany Jones

Title: "Am I Not a Man but Also an Explorer?" Labor Contradictions, Capitalism, and Chocolate Relations Between British Manufacturers and West African Cocoa Producers

Abstract: The research focuses on the contradictory treatment of labor along the English chocolate industry's multinational supply chain at the turn of the 20th century. The greater purpose of this research is to use this particular industry to examine universal connections between industrial capitalism and mistreatment of labor in Africa over the last two centuries.

Presenter: Stacey A. Nerkowski (**Oral Presentation**)

Program: College of Natural Sciences, Biology, MS

Faculty Sponsor: Dr. Anthony Metcalf

Title: Microsatellite Analysis of Population Structure in the Santa Ana Speckled Dace (*Rhinichthys Osculus*): Conservation and Evolution

Abstract: The Santa Ana Speckled Dace has been a species of concern among local watershed- utilizing microsatellites, population structure, and genetic diversity will be examined among Southern California streams. 23 microsatellite loci have been identified and are being analyzed for 150 individuals. This data will be used for conservation and management purposes.

Presenter: Krystin Rauma (**Oral Presentation**)

Program: College of Arts and Letters, English Literature, BA

Faculty Sponsor: Dr. Jessica Luck

Title: Madness in Memoir: The Representation of the Unmarked Body

Abstract: Darkness visible is a compelling memoir in which William Styron depicts his personal battle with depression. My projects explores depression in memoir as a kind of “coming out” narrative that moves past society’s call for a “performance of normalcy” from the unmarked disabled body.

Presenter: Lace M. Riggs (**Oral Presentation**)

Program: College of Social and Behavioral Sciences, Biological Psychology, BA

Faculty Sponsor: Dr. Sergio Iniguez

Title: Social Defeat Stress in Adolescence Results in Pro-depressive Behaviors

Abstract: Since the incident of adolescent depression has increase, a more focused approach to depression research is needed at the preclinical level. Since previous research demonstrates that the social defeat model results in a depression-like phenotype in adult animal, we investigated whether this model will yield similar results during adolescence using the social interaction test.

Presenter: David Shanta (**Oral Presentation**)

Program: College of Social and Behavioral Sciences, Social Sciences, MA

Faculty Sponsor: Dr. Cherstin Lyon

Title: Shared Spices, Separate Lives: Community Formation in the California Citrus Industry During the Great Depression

Abstract: Benedict Anderson’s work Imagined Communities: Reflections on the Origin and Spread of Nationalism is used to examine the community-forming process of citrus growers and workers, in Riverside and San Bernardino counties, leading up to and including the 1930’s. Research was based on oral histories, newspapers, and government documents.

Presenter: Eric Vreeman (**Oral Presentation**)

Program: College of Education, Educational Leadership, Ed.D.

Faculty Sponsor: Dr. Donna Schnorr

Title: Contributions of Wellness on Student Achievement and Behavioral Engagement

Abstract: A correlational model was used to test hypothesized relationships between ten domains of wellness (adaptability, connectedness, conscientiousness, emotional self regulation, empathy, initiative, mindfulness, optimism, self efficacy, social competence) as measured by the Child and Adolescent Wellness Scale (CAWS) and factors of academic achievement and behavioral engagement.

27th Annual CSUSB Student Research Competition

CSUSB Student Research Competition Abstracts

Presenter: Marlana Hernandez

Program: College of Social and Behavioral Sciences, Psychology

Faculty Sponsor: Dr. Sharon Ward

Title: Measuring College Success by Student Resiliency and High School Academic Performance Index Scores

Abstract: A correlational relationship between CSUSB students' past high school API scores and their present resiliency factors may create a measure to better determine college success. to corporate social responsibility. I examined the critical arguments for and against corporate social responsibility, recognizing socially responsible best practices emerging from the research.

Presenter: Michelle Stone

Program: College of Social and Behavioral Sciences, Psychology

Faculty Sponsor: Dr. Sergio Iniguez

Title: Prozac Exposure during Adolescence Impairs Spatial Memory Performance in adulthood

Abstract: Within the adolescent population, there has been an increase in the prescription rates of the antidepressant Prozac. The current study was designed to examine for potential long-lasting spatial memory related to deficits as a result of chronic exposure to Prozac during adolescence, using C57BL/6 mice.

Presenter: Gabino Gomez

Program: College of Social and Behavioral Sciences, Psychology

Faculty Sponsor: Dr. Donna Garcia

Title: A Closet Full of History: Perceptions of Backwards and Forwards Cultural Continuity in LGBTQQI Community

Abstract: Measuring individual perceptions of "backward and forward" collective continuity in self-identified members of the LGBTQQI community.

Presenter: Lacy Riggs
Program: College of Social and Behavioral Sciences, Psychology
Faculty Sponsor: Dr. Sergio Iniguez
Title: Social Defeat Stress Results in Pro-Depressive Behaviors

Abstract: A more focused approach to depression research is needed at the pre-clinical level. We investigated whether the social defeat model would result in pro-depressive behaviors in adolescence using the social interaction test.

Presenter: Jordyn Wheeler
Program: College of Social and Behavioral Sciences, Psychology
Faculty Sponsor: Dr. Robert LaChausse
Title: Perceived Social Norms and Health Behaviors: Are College Drinking Behaviors Mediated by University Attachment?

Abstract: This study examines the relationship between school connectedness and health risk behaviors, specifically between perceived social norms, alcohol, and university attachment among college students.

Presenter: Racheal Morgan
Program: College of Social and Behavioral Sciences, Anthropology
Faculty Sponsor: Dr. Katherine Nadeau
Title: Disparity in Western Comics: A Reflection of Values and Crime

Abstract: Cultural perceptions of "crime" explain the ability to distinguish opinions on moral values and criminality in cultural perceptions of "crime" explain the ability to distinguish opinions on moral values and criminality in comics. Belgians have a "black and white" view; American see crime relative to motivations. Belgians have a "black and white" view; American see crime relative to motivations.

Presenter: Charlene Eaton
Program: College of Social and Behavioral Sciences, Anthropology
Faculty Sponsor: Dr. Elsa Valdez
Title: Hijacking History: Censorship and Cultural Genocide as Weapons of Racism in Arizona

Abstract: An analysis of HB2281, the Ethic Studies ban in Arizona: what is actually says, how it was passed, what educators are saying about it and how it has impacted the children of Mexican and Indigenous ancestry. Explain the ability to distinguish opinions on moral values and criminality in comics. Belgians have a "black and white" view; Americans see crime relative to motivations. Belgians have a "black and white" view; American see crime relative to motivations.

Presenter: Juan Franquez

Program: College of Social and Behavioral Sciences, Criminal Justice

Faculty Sponsor: Dr. Gisela Bichler

Title: We Be Drinkin'

Abstract: A study on place management and design of problematic bars and night clubs. Place management, crowdedness, and place design resulted to be robust indicators of crime and disorder.

Presenter: Brian Evans

Program: College of Social and Behavioral Sciences, Anthropology

Faculty Sponsor: Dr. Robert Shaw & Dr. Wesley Niewoehner

Title: Environmental Causes of Multiple Sclerosis and certain other Co-occurring Diseases

Abstract: Environmental Causes: Multiple Sclerosis and Co-occurrence of Many Other Immune System Dysfunctions, Certain non-Viral Genetic Cancers and Mitochondrial Mutations. A Translational Medical Anthropological Research Discovery.

Presenter: Amandeep Kaur

Program: College of Natural Sciences, Biochemistry

Faculty Sponsor: Dr. David Maynard

Title: Unmasking the Mysteries of the Mosaics

Abstract: Myan artifact, obtained for the National Museum of the American Indian at the Smithsonian Institute, were analyzed by spectroscopic methods and found to contain copal.

Presenter: William Landa

Program: College of Natural Sciences, Health Science

Faculty Sponsor: Dr. Robert La Chusse

Title: Ethnic Differences in Weight Perception and Obesity Among College Students

Abstract: This study examines the relationship between ethnicity and weight perceptions among university studies. The results of this study have program and policy implications for U.S. Universities.

Presenter: Juana Zamora

Program: College of Natural Sciences, Biology

Faculty Sponsor: Dr. Laura Newcomb

Title: Reverse Genetics of Influenza Virus

Abstract: Using the reverse genetics to generate virus with WT NP and NP with an epitope FLAG tag at the C-Terminus end result in no production of virions however, the NP was being expressed and synthesized. This alludes to a virion assembly function of the NP C-terminus.

Presenter: Molly Nazeck

Program: College of Natural Sciences, Health Science

Faculty Sponsor: Dr. Robert La Chausse

Title: Examining the Effects of Parental Influences on Child Nutrition Behavior

Abstract: This study is examining the relationship between fruit/vegetable availability and the mediating effects of parental influences.

Presenter: Stacy Nerkowski

Program: College of Natural Sciences, Biology

Faculty Sponsor: Dr. Tony Metcalf

Title: Microsatellite Analysis of Population Structure in the Santa Ana Dace (*Rhinichthys osculus*): Conservation and Evolution

Abstract: Utilizing microsatellites, population structure and genetic diversity will be examined in *Rhinichthys osculus* among Southern California streams. 23 microsatellite loci have been identified and are being analyzed for conservation and evolution.

Presenter: Meredith Lujan

Program: College of Natural Sciences, Biology

Faculty Sponsor: Dr. Nicole Bournias & Dr. Chee Leiw (UCR)

Title: Directing Neural Retina Cell Fates from Human Pluripotent Stem Cells

Abstract: This project will use both human embryonic and induced pluripotent stem cells to generate retinal cells by utilizing signaling factors first identified in early developmental studies.

Presenter: Negin Baghdadchi
Program: College of Natural Sciences, Biology
Faculty Sponsor: Dr. Nicole Bournias
Title: Serum starvation enhances transfection and differentiation efficiency in human Pluripotent stem cells
Abstract: Serum Starvation can increase the nuclear fraction as well as differentiation efficiency in hpsc and ipsc.

Presenter: Micah Witt
Program: College of Natural Sciences, Computer Science
Faculty Sponsor: Dr. Keith Schubert
Title: A Proton Simulator for Testing Implementation of Proton CT Reconstruction Algorithms on GPGPU clusters
Abstract: N/A

Presenter: Kenneth Williams
Program: College of Natural Sciences, Computer Science
Faculty Sponsor: Dr. Keith Schubert
Title: Accurate Skill Alignment for Radiosurgery
Abstract: In this research, image registration algorithms are compared with an emphasis on testing their efficiency and accuracy on their calculated transformations.

Presenter: Mahbuba Hammad
Program: College of Natural Sciences, Public Health
Faculty Sponsor: Dr. Daniel Fahey
Title: National Policy to Combat Breast Cancer
Abstract: This research paper discusses the manner in which Qatar is combating breast cancer at a national level.

Presenter: Graham Kaplan
Program: College of Natural Sciences, Psychology
Faculty Sponsor: Dr. Cynthia Crawford
Title: Effects of Juvenile Methylphenidate Exposure on Cocaine Self-Administration and Escalation in Rats
Abstract: A self-administration paradigm was used to assess the impact of juvenile methylphenidate exposure on cocaine seeking behavior in adulthood.

Presenter: Jennifer Wacan

Program: College of Natural Sciences, Psychology

Faculty Sponsor: Dr. Donna Garcia

Title: The Effects of Perceived "Backward and Forward" Group Continuity On Well Beign

Abstract: We expect the degree to which on perceives their ethnic group as having an extensive historical past and lengthy future will impact individual scores on measures of wellbeing (i.e. individual self-esteem).

Presenter: Elizabeth Castaneda

Program: College of Natural Sciences, Psychology

Faculty Sponsor: Dr. Jodie Ullman

Title: Methods of Administration and their effect on Social Desirability Bias

Abstract: This study addresses an important factor concerning the validity of self-report questionnaires and the effect of social desirability on self-report measures.

Presenter: Michelle Fabros

Program: College of Natural Sciences, Psychology

Faculty Sponsor: Dr. Donna Garcia

Title: Failure and Shifting Standards: How Failure can Positively Affect Subjective Evaluations of Stereotyped Group Members

Abstract: Using the shifting standards model, the positive influence of failure can lead to better subjective -but not objective- evaluations of stereotyped group members.

Presenter: Raymond Miller III

Program: College of Natural Sciences, National Security Studies

Faculty Sponsor: Dr. Mark Clark

Title: The Role of Ideology in Negotiation and Conflict Resolution During the Tuareg Rebellions

Abstract: This work traces the four Tuareg Rebellions in Mali after the French Occupation and discovers the role that ideology played during those rebellions to present.

Presenter: Stephen Anderson

Program: College of Natural Sciences, Criminal Justice

Faculty Sponsor: Dr. Gisela Bichler

Title: International Cocaine and Heroin Trafficking: A Social Network Approach

Abstract: This Study uses social network analysis to identify the important transit countries for cocaine and heroin, respectively.

Presenter: Aubrey Hovannesian

Program: College of Education, Educational Leadership

Faculty Sponsor: Dr. Marita Mahoney

Title: 100 DINNERS PROJECT-Conceptual Change Theory in Education: Using Home Visits to Reshape Teacher Perceptions of Student

Abstract: The 100 Dinners Project utilizes the Conceptual Change Theory Protocol in an effort to identify and solve issues related to Schools Connectedness..

Special Thanks

This event is made possible through funds received from the Student Success Fee.

The Office of Student Research and Graduate Studies would like to thank everyone who contributed to the success of this year's 2nd Annual Student Research Symposium and 27th Annual CSUSB Research Competition.