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Sponsored by
West Texas A&M University’s
Graduate School and Research
8:00 – 9:00  Registration – Legacy Foyer
9:30 – 11:00  Poster Set Up – Alumni Banquet Hall
9:00 – 10:00  Session I – Jack B. Kelley Student Center
10:10 – 11:10  Session II – Jack B. Kelley Student Center
11:10 – 11:30  Break
11:30 – 1:30  Poster Judging – Alumni Banquet Hall
12:40 – 1:40  Session III – Jack B. Kelley Student Center
1:30 – 2:30  Poster Removal – Alumni Banquet Hall
1:40 – 2:00  Break
2:00 – 3:00  Session IV – Jack B. Kelley Student Center
3:30 – 5:00  Awards Ceremony, with guest speaker Dr. Steve Murdock
1. Old Main
2. Jack B. Kelley Student Center
3. Classroom Center
4. Mary Moody Northen Hall
5. Sybil B. Harrington Fine Arts Complex
6. Stafford Hall
7. Old Fine Arts Building
8. Fieldhouse — “The Box”
9. Old Student Union Building
10. Panhandle-Plains Historical Museum
11. Agriculture and Natural Sciences Building
12. Joseph A. Hill Memorial Chapel
13. Cousins Hall
14. Killgore Research Center
15. Cornette Library and Hastings Electronic Learning Center
16. Computer Center
17. Power Plant
18. Buffalo Courts Alumni Center
19. Guenther Hall
20. Conner Hall
21. Buff Hall
22. Dining Hall
23. Alumni Banquet Facility
24. Shirley Hall
25. Hudspeth Hall
26. Cross Hall
27. Jones Hall
28. Virgil Henson Activities Center
29. Office of Residential Living
30. Jarrett Hall
31. Auxiliary Physical Education Building
32. Engineering Building and Bivins Nursing Learning Center
33. Physical Plant Complex
34. Greenhouse
35. Wind Energy Test Center
36. Stanley Schaeffer Agriculture Education Learning Lab
37. First United Bank Center
38. President’s Home

Guests to campus may obtain a free visitor’s parking permit at the University Police Department, located in the Old Student Union Building (#9).
Legacy Hall Map
“Research is creating new knowledge.”

—Neil Armstrong
“Let’s Talk About Sex: Sexual Politics in "The Book of Margery Kempe"”

Cameron Anderson

An examination of Margery Kempe’s spiritual autobiography "The Book of Margery Kempe," as it involves the societal role of women in the medieval era. Margery wishes to purify and cleanse herself through a celibate marriage. Eventually, her husband releases her from marital obligation, resulting in her spiritual pilgrimage. During her effort to escape the societal roles of wife and mother, she ironically and unknowingly once again embodies such roles, through spiritual visions. These visions result in marital intimacy with Christ, and Margery's integration into the Godhead. Thus Margery falls back into transactional marriage, never gaining the freedom she originally sought.

“"Ozymandias:" A Timeless Love”

Maricela Leal

This paper describes and evaluates the possibility of a secret, forbidden love between two people who could never be together out of social status. One, a ruler of a nation. The other, a simple artist. Information is drawn from the poem, "Ozymandias" by Percy Bysshe Shelley along with notes made by the ninth edition of The Norton Anthology of English Literature, Volume 2.

“"The Centre of Paralysis": Tracing the Feminine in James Joyce's "Dubliners"”

Rylee Sharp

This paper explores depictions of femininity in James Joyce's "Dubliners" and how female narratives are overwritten by a patriarchal hegemonic structure.

“Analysis of the Antibacterial Properties Demonstrated by Silver Nanofoam”

Valeria Rodriguez

Historically, silver has always been prominent as an antimicrobial. However, the introduction of oral antibiotics in the 1940’s caused a rapid decline in its use. Within the past decade antibiotic-resistant bacteria and the introduction of nano silver has caused a resurgence in the use of silver as an antimicrobial. The West Texas A&M University Department of Engineering has developed an antibacterial silver nanofoam and incorporated it into a paint formulation. After being subject to various tests, the silver nanofoam demonstrated a significant reduction of viable cells against Escherichia coli, Bacillus megaterium, and Staphylococcus aureus when compared to control groups.
West Texas Room 33 (Judges: Deborah Davenport; Emily Hunt):

“Iberian & Western Culture”

Ashley Carlisle

For many centuries Western culture and Iberian culture have been at war with each other. In this research paper I will be looking at how both cultures converge using the works of Shakespeare and Calderon. Before Shakespeare’s Hamlet there was Calderon’s La Vida es sueno, and rather than compare the differences, I will compare the similarities of how both plays bring together two very different cultures. I will compare how different themes such as dreams, illusions, the father son dynamic are put into two different plays, but how they bring them together.

““Your Dream, My Dream””

Laura Loya

In the last hundredths of years, researchers have tried to investigate and understand what happens during someone’s sleep. This research paper intends to present how this act has changed from the Classical Era until present days. It will also include an evolution of dreams throughout history. “Del Somni d’en Bernat Metge,” Pedro Calderón de la Barca with “La vida es sueño,” Miguel de Unamuno with his work “Niebla,” and “La mujer de cera” by Carmen Martín Gaite are some of the sociopolitical and religious Spanish and Catalan works which will be used to support my idea.

“Rwandan Genocide Memorials: A Threat to Enduring National Security”

Olivia Trabysh

This paper combines field research, post-colonial literature analysis, and legal and political scholarship to utilize Rwanda’s genocide memorials as a lens through which testimony and the arrangement of human artefacts speak as texts and inform the way a culture progresses and the narratives with which they progress. A majority of the memorials in Rwanda are tokens of reverse discrimination and threaten the potential for long-lasting national security. Many scholars predict an imminent second eruption of violence in Rwanda in the near future. This paper investigates how monuments designed to prevent violence are actually underwriting tyrannical ideologies that propagate genocidal forces.
Thunder Room 35 (Judges: Ryan Mattson; Donna Makkhavane):

“Human Existence and its Perception”

Karen Finado

Perhaps the world humanity claims to be evident is a world in which might not exist. On the contrary, for all one knows the universe may altogether exist. Seemingly, no one is aware of what might be the answer to the query of human existence and its perception. Our goal is not to provide an answer to human’s curiosities, it is to implement thoughts and wonders about reality and its understanding based on The Allegory of the Cave by Plato (380 B.C.), The Giver by Lois Lowry (1993), and Life is a Dream by Calderón de la Barca (1629).

“An Exploration of Female Stereotypes: A Feminist Criticism of the Television Series The Big Bang Theory”

Chandess Millner

I analyzed the television series The Big Bang Theory in order to determine how gender is constructed in the Fourth Season. This is the first season in which new female characters are introduced. Before these characters, the only female was Penny, who was portrayed as a stereotypical ditzy blonde waitress while her neighbors Leonard and Sheldon are intelligent male physicists. The addition of Bernadette and Amy adds diversity to the portrayal of women due to their education. However, I reached the conclusion that the men portray dominance over the women by constantly attempting to prove their intellectual intelligence as superior.

“Effectiveness of the Classroom Environment on Student Success”

Micayla Hudson

In elementary education, classroom environment can have a significant impact on student success. This research analyzes different studies to compare consistencies and differences. The studies reveal that a positive environment will increase student success; whereas, a bland and bleak environment will cause students to disconnect and perform poorly. Recommendations include conducting a controlled study to examine how students respond to the different environmental variables in the classroom, how this varies by grade level, and what classroom environment students prefer.

“Communication in Music: A Fantasy Theme Criticism of Taylor Swift’s music”

Caleb Hubbard

Communication is an enormous part of everyday life and is needed almost everywhere. Music is a huge form of communication and has been used as a tool to communicate folktales, stories, and emotions themselves. Since music is one of the biggest forms of communication, I look at music and see how it influences today’s society. Because music is such a broad topic, I narrow my search by looking at only one artist, Taylor Swift. Swift is one of the biggest artists in the world, and I look at how her music influences today’s world by using fantasy-theme criticism.
Maroon Room 37 (Judges: Susan Nix; John Pipkin):

“Hidden Messages”

Johanna Pina

M. D. Eder “Dream Psychology.”

There are different ways someone can interpret dreams. People sometimes see them as guidance or a push in life; others might see dreams as symbols. According to Freud “he proved that many of our dream visions are symbolical, which causes us to consider them as absurd and unintelligible; the universality of those symbols…”(Eder 4). Symbolism is also seen in dreams in literature like in a Spanish short story La mujer de cera by Carmen Martín Gaite. Freud mentions in his book Interpretations of Dreams, there is also other Psychologist that interpret dreams differently.

“Age Related Macular Degeneration influence on Quality of Life”

Amy Bannavong

Age-Related Macular Degeneration (AMD) is a disease that causes the loss of vision in either one or both eyes. This loss of physical function has a negative effect on the Quality of Life (QoL) of an individual. Psychometric tools such as the NEI-VFQ 25 have been tested in many studies to give adequate results of a person’s QoL. Results have been documented in each case study reviewed, respectively. In this literature review, many peer-reviewed articles have been analyzed and have shown that AMD not only causes physical dysfunction, but also emotional instability resulting in poor QoL.

“Isolation of Oil-Degrading Microorganisms From Polluted Soils”

John Jackson

Oil pollution represents one of the more pressing threats to the natural environment. In this study, the existence of oil-consuming microbial life is investigated in the Texas Panhandle. This research is specifically relevant to this region due to the economic prevalence of crude oil in West Texas. After isolating several oil-polluted soil samples from a residential area, microorganisms were colonized using traditional incubation techniques under the stipulation that all variable sources of carbon be eliminated in the growth medium besides motor oil. After initial isolation and successful colonization of oil processing organisms, additional cultivations were completed to isolate individual organisms.
Senate Chamber Room 16 (Judges: Sharon Burnett; Robin Clark):

“The Gender Roles of Little Red Riding Hood”

Michaela Wegman

This presentation will outline eight different Little Red Riding Hood short stories and analyze three different aspects of those stories; the girl, the wolf, and the path. The analysis will focus on gender roles of the girl and the wolf and the significance of those roles in the time period the stories were written in.

“Coffee Culture and Independent Music Diffusion in the Texas Panhandle”

Bri Leeper

This study investigates the relationship between coffee shops in the northernmost twenty-six counties of Texas and independent musicians. As coffee trends show that coffee consumption is on the rise, many coffee shops of all sizes are experiencing increased profits. The study examines the use of live music shows as entertainment by successful local coffee shops, as well as promotion of the coffee shop experience, community involvement, and a customer following of young trendsetters. Key findings were acquired using surveys and one-on-one interviews with local patrons and musicians.

“The Rise and Fall of Ulus Ildi”

Philip McCarty

My name is Philip McCarty and I am a graduate Student at West Texas A&M University in Canyon Texas. I wish to submit a paper for this conference that will focus on the life of Jochi Khan and how his treatment by other Mongols defined The Golden Horde. Within the paper will be cultural references that may have had a long lasting effect on Kazakhstan and will include the mythologies concerning both his birth and his death.
Oral/Paper Presentations:
Session II: 10:10 – 11:10 continued...

West Texas Room 33 (Judges: Nathan Howell; Donna Makkhavane):

“La Cárcel: Prisons in Spanish Literature”
Reece Errington

In numerous works of literature historically, the prevalence of dreams and their analysis and interpretations have set the tone for writings like the Bible, as well as modern movies such as "The Matrix" and "Inception". Within such works lie symbols that add further depth and complexity to each dream. One such element is the realm of a prison-like setting affecting the characters involved in the work. This research effort will attempt to find connections and conclusions, following this motive of a prison-like space, between Lo somni de Bernat Metge and Calderon de la Barca’s La vida es sueño.

“The Growing Applications of Direct Current In Modern Power Systems”
Jordan Morris

This research analyzes the growing trend of the integration of Direct Current in modern power distribution systems. This research first compares the history between the two. Then, the differences between and efficiency of AC and DC is analyzed. Lastly, there is a focus on the recent applications of DC in global modern power grids and a look at how these changes may affect everyday life. The study provides a better understanding of the controversy of the growing role of DC, as well as a more conclusive direction as to where the world is headed as an electrical consumer and producer.

“The New Age of Advertising: Brand Placement in Social Media”
Lily Gamble

The overwhelming use of social media in today’s world is causing advertisers to rethink the way they promote their brands. This research delves into the world of brand placement in social media as a viable way to effectively increase brand recognition. Millions of users are logging into social media platforms each day, allowing for these brands to achieve optimal efficiency with their advertising; however, more research must be conducted looking into the quantitative benefits of brand placements compared to more conventional brand placement and advertising methods.
Chandler Shaw

In my paper "Kinged, Unkinged, and Kinged Again: Re-Mystifying the Throne in 'Richard II'" I will look into the forces that determine ability to rule in William Shakespeare's "Richard II". While this play is commonly read as demystifying the English monarchy through the usurpation of King Richard II by his cousin Henry Bolingbroke (King Henry IV), I will analyze the power the common man, both onstage and off, has in strengthening the mystique and divinity of the rulers of England, in addition to strengthening their own role in society.

Gustavo Barraza

The effects of humanism shook the spiritual and religious foundation that once dominated human culture. The roots of humanism are evident in the Greek & Roman Empire, where philosophy was born with the purpose of offering a more accurate explanation of the universe. Humanism have survived up to modern days and its presence has only grown stronger. Some of the mayor contemporary humanistic events include The Age of Reason and the Humanist Manifesto. The creation of a Humanist Manifesto is perhaps the most significant humanistic event in history, since it gave birth to humanism as a new religion.

Shane Marnell

This study reviews the findings of other research regarding methods of improving worker efficiency through privileges. Analysis results in a definition of actual goals of a few categories of provision (free helpful services, stress-relief and fun options, and open communication in the workplace). The most defining discovery is of the common goal of all categories analyzed. Each subject resolves to improve employee’s job satisfaction and views on company image.
Maroon Room 37 (Judges: Rex Pjesky; Ryan Mattson):

“Stacked Rapid Sand Filtration”

Conor Cope

Jace Furr, Naruchar Phongam, Tyler Wedel

This report contains current progress of the design process, analytical results, and plans of action for implementation of the Stacked Rapid Sand Filtration system designed by the senior design group for the upcoming trip to Honduras. The village that will be visited lacks a clean source of drinking water causing people of the village to suffer from waterborne illnesses and diseases. The SRSF will be able to provide a cleaner source of potable water for the village by reducing the turbidity of the water and removing a substantial portion of contaminants from the source water and improve the villager’s health.

“The Effects of Cleats vs. Running Shoes on Kinematics While Running the T-Drill”

Ethan Morriss

Bailey McFerren, Danielle Chrzansowski, McKenzie Long

Cleats are an important part of football and the friction that is needed during running. The purpose of this study is to prove that cleats are more efficient than a regular running shoe when performing the t-drill on artificial turf. Ten West Texas A&M football players will be used to conduct this research. They will perform the t-drill with the running shoes and with the cleats. As they perform, we will be looking at the angles of the lower extremities in the sagittal plane.

“Study Abroad and Communication Competency”

Jacqueline Llewellyn

Study abroad programs have been widely acclaimed by researchers as beneficial programs for students to be involved in, but little research has been provided with regard to how these benefits relate to student communication abilities. Noting these benefits can impact study abroad programs overall by indicating their significance in the lives of students who participate in them. This essay addresses this problem first by a review of the literature on the topic and second by reporting the findings of a study of students who participated in study abroad programs in the past year.
Senate Chamber Room 16 (Judges: Sandy Babitzke; Debra J. Blanton):

“The Interpretations of Rationality, Reason, and Faith Through Dreams”

Cynthia Estrada

By using dreams in their literature, authors incorporate the dream to clarify an individual who is coming to reason and the role that faith plays to get that individual to believe in a higher power. I argue that authors use dreams in their literature to show that individuals have to see to believe such as the meeting of a higher power face-to-face. In conclusion, by closely examining texts, this paper brings forth the power of an author that incorporates dreams in their literature to conceptualize the statement “seeing is believing” by the contradicting incorporation of faith.

“Effects of Social Media on the Hiring Process: Possibilities for Human Resources”

Israel Rivera

The purpose of this exploratory analysis was to search and investigate the effects of social media on the job selection process, and if it is legal for employers to use social media websites to prescreen possible job candidates. The study found that many recruiters have used social networking sites to look for potential job candidates. The credibility and validity of the SMWs also is a major question on whether employers should use them to prescreen employees. The main reoccurring thought throughout all articles and online research was can employers continue to use the SMWs to prescreen possible job candidates legally?

“Deceptive Aesthetics: The Perceptive Impact of Nature Reproductions”

AJ McCormick

In an effort to explore the impact of art on the appreciation of nature, I apply aesthetic modes of appreciation put forward by Allen Carlson—the object model, landscape model, and environmental model—to modern representations of nature, specifically photography and green roofs.
West Texas Room 33 (Judges: Bruce Brasington; Noah Franken):

“Nadine Gordimer’s July’s People: Conditioned Identity in Apartheid South Africa”

Kaitlynn Helm

Nadine Gordimer’s July’s People is set in fictional South Africa between apartheid and post-apartheid era. Her characters expose the hypocrisy of liberalism in apartheid South African context and shows how ownership and years of oppression has conditioned oppressors and the oppressed. The false consciousness seen in Gordimer’s characters as a result of conditioning is displayed in their struggle with consumer constructed identity. As material displacement accrues, the characters lose their footing in the old regime. This demonstrates these struggles in all of the characters, it is predominantly played out in Maureen’s perspective—the white South African woman of the novel.

“Game Changer: Game Changer: An Ideological Criticism of The Hunger Games”

Myles Smith

This paper used ideological criticism to examine the ideological viewpoints being imposed by the government and oppressive figures throughout the movie “The Hunger Games”. In this fictional story written by Suzanne Collins the reader is introduced to a society plagued by fear and governmental oppression. The story is based around the character Katniss Everdeen, a sixteen-year-old girl who throws herself into one of the craziest fights of her life. This ideological criticism examines presented elements of feminism, desensitization and what theses elements suggest seeing the imposed ideology.

“An Inspection of Disney Studios’ Plans for Future 2D Animation”

Jordan Bryant

Throughout the years, Walt Disney Studios has been known for 2D animated films and cartoons. With the evolution of the movie industry, CGI has become a major art form for animated movies lately. Disney has picked up on this art form not only for marketability purposes but also to remain competitive. This study examines the future of Disney’s 2D animation. By researching Disney’s past and present projects, one can predict the studio’s future approach to 2D animation.
Thunder Room 35 (Judges: Emily Hunt; Rocky Ward):

“When Learning Takes Place”

Elliott Evalle

This study focuses on student engagement within the lecture setting of higher education and evaluates the methodology of teaching that gives students greater chances for success. While students’ educations lie in their own hands, sometimes they can be thrown into an environment that leads to an under appreciation for that specific course and may end in low grades or failure. This research examines specific, effective, and tested methods that allow teachers to capture their classes’ attention. These findings foster questions about the routine approaches to education in the college classroom and methods that enable educators to maintain student engagement.

“Rumination and activity monitoring to predict diseases during transition period”

Sushil Paudyal
J T. Richeson, F. Pauline, PJ. Pinedo

The objective was to evaluate the association between changes in rumination time (RT), activity (ACT) and diseases in the transition dairy cows. Pregnant cows (n=198) were affixed with a neck collar containing rumination loggers providing RT and ACT for each 2-h interval and health disorders were assessed until 60 DIM. “SelfIndex” and “MatesIndex” were developed for RT and subsequent alarms were created. “SelfAlarm” was 38 to 100% sensitive and 77% specific; “MatesAlarm” was 41 to 100% sensitive and 76% specific whereas activity alarm was 33 to 71% sensitive and 81% specific in predicting the diseases in study.
Maroon Room 37 (Judges: Andrew Reynolds; Stephen Karaganis):

“Induced Pluripotent Stem Cells: the Future of Regenerative Medicine”

Jenna Hooten

This study investigated the use and future of induced pluripotent stem cells (iPSCs). iPSCs are created through the introduction of four transcription factors - OCT3/4, SOX2, KLF4 and c-MYC – into a body cell through a retrovirus. iPSCs are useful in disease modeling, drug testing, and possible human therapy in the future. Current research focuses on developing new methods of inducing stem cells, but must overcome the obstacles of tumorigenesis, differentiation inconsistencies, and inefficient differentiation. Future research must focus on better understanding the chemical methods of differentiation, as well as finding safer, more efficient methods of creating then differentiating iPSCs.

“Dreams Represented in the Works of Goya and Calderón de la Barca”

Roxana Nogales

Throughout history, writers have incorporated the concept of dreams into their works in order to provide the reader with more information about the characters involved, and their behaviors, as in the play La vida es sueño, created by Spanish writer Padro Calderón de la Barca. Since dreams are not exclusively seen in literature, but in painting too, this essay will focus on how the oneiric is portrayed in Francisco de Goya's painting, El sueño de la razón produce mounstros, and will be compared and contrasted to La vida es sueño.

“The genetic structure of bobcats across western Texas”

Imogene Davis

Richard T. Kazmaier, Jan E. Janecka, Rocky Ward

Bobcats (Lynx rufus) are a generalist species, yet landscape features can impact genetic structure. In western Texas, the processes driving genetic structure between ecoregions are not known. We examined bobcat genetic structure across several ecoregions in western Texas to determine if population structure corresponds to changes between defined ecoregions. Variation in nine microsatellite loci were employed to generate composite multilocus genotypes. We conducted individual-based analyses to determine what phenomena drives population structure. Results indicate that bobcats are vagile in western Texas, but some landscape-mediated genetic structure is present, suggesting that panmixia should not always be assumed in bobcat management.
Senate Chamber Room 16 (Judges: Jeffry Babb; Debra J. Blanton):

“Dante and Metge: Brethren in Christian Humanism and Depictions of the Afterlife”

Parker Kershen

In this essay, we look at the similarities between two different authors of late Medieval Europe by examining some literary concepts in the writings of both men; contrapasso, imitatio, and translatio, among others. We will look at how both literary works are a journey of self improvement and reaffirmation of convictions on the part of the authors, and how the verses of one drew heavily from those of the other. Through all this, we see that the similarities between these authors connect their works in such a manner that the link between them cannot be overlooked, nor should it.

“The Impact of Cataract Surgery on Quality of Life in Older Adults”

Angel Rodarte

Cataracts are the leading cause of blindness and the most popular technique for removing them is by phacoemulsification and insertion of an intraocular lens. This research seeks to determine the impact of cataract surgery on the quality of life overall in adults. Surveys taken before and after cataract surgery examine the impact of the surgery on both vision-related and health-related quality of life. The studies displayed that the patients became more active and participated in more daily activities following surgery, therefore showing that their quality of life had improved and continued to improve as time passed.

“Music and Auditory Cueing in Gait Training for Parkinson's Disease: Pilot study set-up.”

Hope Wentz

Laura Reyher, Kelli Dubois

Parkinson's disease (PD) is a progressive neurodegenerative disorder that is commonly associated with mobility dysfunctions which affect quality of life. Research has shown that musical rhythm and cueing improve mobility. The purpose of this presentation is to review the literature related to the most common gait parameters, the quality of life surveys, and the use of music and cues in gait training for PD patients. The final part of the discussion will present an upcoming collaborative study (Music Therapy, Nursing, Sports and Exercise Science) to determine if specific music preference improves gait patterns and QOL for those with PD.
West Texas Room 33 (Judges: Bruce Brasington; Sharon Burnett):

“Cellphone Electromagnetic Wave Interaction with Cardiac Function at the Chemical Level”

Jeanette Camarena

This research investigates the possibility that electromagnetic frequencies, or EMF’s, emitted by cellphones are negatively altering normal cardiac function. The study analyzes research regarding various aspects of EMF’s and cardiac functions. EMF’s are known to interfere with other currents and could play part in several neurological disorders and diseases. Although some evidence suggests correlation between EMF emission and cardiac function; most of the reviewed studies suggest that EMF’s do not have a significant influence on cardiac function. Additional research is needed to explore the possibility that these frequencies are altering normal cardiac current conduction.

“Effectiveness of Auditory-Verbal Therapy for Children with Hearing Loss”

Hannah Lang

This paper evaluates the effectiveness of auditory-verbal therapy programs for children with hearing loss. Auditory-verbal therapy (AVT) programs focus on early detection of hearing loss with listening and spoken language therapy, aided by sensory devices, such as hearing aids or cochlear implants. The study examined the performance of the children on CELF or PLS-4 pretests and posttests in areas of expressive and receptive language. The results of the studies were also compared to normal scores of typical hearing (TH) children to evaluate whether AVT helped children reach age-appropriate language skills.

“Present Applications of Nanotechnology in Healthcare and Civil Engineering”

Samson Wood

Nanotechnology is an emerging technology that utilizes molecular compounds of atomic proportion in order to interact with objects on a nanometer scale. Through the review of documents detailing practical applications of nanoparticles in the healthcare and engineering fields, as well as documentation of the concerns this technology has created due to the use of potentially harmful material in production, a positive assessment on the viability of future research and development can be made, especially in concerns to reproductive health and tissues synthesis.
Thunder Room 35 (Judges: Shiquan Tao; Noah Franken):

“Online Public Datasets in Personal Astronomy Research”

David Do

Amateur astronomers have become increasingly important in obtaining astronomical data because of the limited number of qualified scientists and the massive amount of data collected daily. This study discusses the website Observing With NASA (National Aeronautics and Space Administration), which allows untrained users to direct telescopes at specified targets. Over a period of time, it is possible for amateur astronomers to identify a previously unknown asteroid or object, with the possibility of their discovery being named after them. By focusing a telescope on a specified area of space, amateur astronomers could give rise to new discoveries.

“3-D Printing Human Hearts”

Brittany Love

Important research and advancements in creating 3-dimensional, printed human hearts is already underway and this research reveals that a printed heart is becoming an achievable reality. The process for creating a printed human heart is the same as printing anything else using a 3-D printer, which is by placing specific materials in a pre-determined pattern. Experts call a completely printed functioning human heart a “bioficial heart” because it will most likely use natural and artificial materials. While there are many technical complications that still need to be addressed, a 3-D printed heart is predicted within the next decade.

“An Exploratory Study of “Selfies” and their Use in Social Media.”

Myles Smith

This research project explores the “selfie” and its use in social media. Using the theoretical perspective provided by Social Identity theory this study explored the use of “selfies” by young adults and the impact this use has on their self-identities. Using both quantitative and qualitative methods, this study focused on the research question, “How has social media affected the self worth of millennial students?” Millennial students have a “need it now” attitude, which makes them want immediate results. This attitude has shaped a generation focused on self-gratification, needing more approval from their peers than ever before.
Oral/Paper Presentations:
Session IV: 2:00 – 3:00 continued . . .

Maroon Room 37 (Judges: Trudy Hanson; Andrew Reynolds):

“Antimicrobial Nanostructured Alloys for Tattoo Machines”

Benton Allen
Zach Lechner, Dixon Hammer, Logan Hoff, Trent Kelly

Tattooing is a health-related industry which has seen tremendous growth in the last decade. Tattoo studios have been linked with skin infections as the body is exposed to microbes during the piercing of the skin with a needle to insert ink into the dermis layer. There are state-mandated policies that provide a minimum level of protection for both the tattoo artist and subject. With the increasing volume and demand for tattoo art, there is a greater need to reduce or eliminate harmful microbes all together. Recent developments in the synthesis of nano-scale materials have inspired the integration of inorganic nano-particles which can be used to modify existing surfaces for antimicrobial activity.

“Do People Realize the Danger: A Pentadic Criticism of “Fight the Silence””

Kendall McKee

In For Today’s song “Fight the Silence” Mattie and his band stand up for victims of sex trafficking. The rhetor’s motivation is activism, the issue in today’s nation that is becoming an outrage. Sex trafficking is quickly becoming the largest illegal issue in the States. Using Pentadic Criticism I identified the five terms: act, (Awareness of Sex Slavery), Scene, (United States of America), Agent, (For Today), Agency, (Record Label), and purpose, (eliminate human trafficking.) The dominant term was purpose with the ratios being weighed and I found that stopping human trafficking was the main term in this critique.

“Molecular gender identification of porcupines (Erethizon dorsatum) in the Texas panhandle”

Erica Thomas
Rocky Ward

North American porcupines (Erethizon dorsatum) are a polygynous mammal that exhibits an atypical female biased dispersal pattern. This species does not exhibit any external sexual traits, making sex determination difficult. Analysis of sex-linked zinc finger protein genes can be used for DNA sex determination in mammals. The objective of this study is to determine gender and gender differences of porcupines in Texas. For DNA analysis hair, quills, feces, tissue, and toenails are collected from porcupines. Genomic DNA is extracted using Beckman-Coulter testing and amplified using polymerase chain reaction (PCR). PCR products are electrophoresed on agarose gels to determine gender.
Presenters should remain with their poster, prepared for judging for the entire poster session. We also request that students leave their posters on display following judging. Posters left on display may be picked up Monday, April 20, 2015, at the Killgore Research Center, Room 106.

Easel Number (1) “Assessment of Indoor Air Quality in Terms of Mold Allergens in Occupational Settings of the Texas Panhandles.”

Funmilola Adesina

Indoor Air Quality [IAQ] testing can provide data to analyze exposures that can increase the rate of respiratory ailments such as asthma, influenza, rhinitis or colds associated with indoor air quality and to ensure a healthy environment at work. I will use ELISA and immunolabeling techniques to assess the allergenicity of mold spores collected from different buildings of West Texas A&M University. This project will help the clinicians to diagnose and treat allergic rhinitis and related ailments amongst the Panhandle residents.

Easel Number (2) “The Effects of Tissue Plasminogen Activator on Speech and Language Abilities”

Jessica Atwater

Background: Speech and language abilities can be negatively affected in many ways; one way is by a stroke. A drug called tissue plasminogen activator (tPA) was developed to lessen the effects of strokes by breaking up blood clots in the body. Methods: The proposal will consist of a chart review of 20 patients that suffered from an acute ischemic stroke; 10 who were given tPA within 3 hours of stroke onset and 10 who were not treated with any medication. Patients will be monitored and assessed to determine how tPA affects speech and language abilities.

Easel Number (3) “Infrared Thermal Imaging for Estimating Crop Canopy Temperature”

Mahendra Bhandari

Co-Authors: Shuyu Liu, Qingwu Xue, Jackie Rudd, B.A. Stewart, and Brock Blaser

This study investigates use of thermal imaging in calculating canopy temperature and determining its relationship with wheat yield. Thermal images were taken from the field of different wheat genotypes under various water regimes during grain filling in 2011. Images were processed using IR Crop Stress Image Processor Software to filter out background soil and to calculate mean canopy temperature of selected area in the plot. A strong negative correlation between yield and canopy temperature in a breeding population was found. The initial results indicated that canopy temperature may be a good indicator of yield performance under limited water conditions.
Easel Number (4) “Analyzing of Various Methods to Evaluate Speed in Sports”

Vance Blair

Co-Authors: Trevor Dennis and Jacob Norris

The purpose of this research is to gather and examine different speed tests. Along with examining, pros and cons will be outlined and be used to determine the best method for measuring and evaluating speed. The results shown by various methods demonstrate factors opposing the main target of this study, in which speed is the main component being measured and evaluated. Factors such as power, reaction time, and acceleration effect majority of methods trying to test speed of athletes or participants. By eliminating these factors within a test, speed can be evaluated most accurately.

Easel Number (5) “Dynamic Balance in Different Sports”

Jordan Bromley

Co-Authors: Devin Tovey, Maddison Wild

The purpose of this literature review is to assess how dynamic balance is measured. There are two measurable types of balance: static, or stationary, and dynamic, in motion. Dynamic balance assessment methods across kinetic video games, soccer, skiing, basketball, and gymnasts were evaluated. The advantages and disadvantages of each test will be discussed, while considering the amount of equipment needed, the estimated price, the qualifications of the testers, and the possible errors during data collection.


Landon Brown

While conventional wisdom has extensively acknowledged the benefits associated with using animals to promote human health and well being, it is a relatively new addition to the research world, most notably in speech language pathology. The purpose of this study is to highlight the reduction of anxiety in persons who stutter when directing their speech toward a certified emotional distress dog, as well as to examine the reduction of anxiety on that person’s overall fluency and secondary behaviors.

Easel Number (7) “Speech Therapy for Students with Dyslexia”

Brittany Buchanan

ABSTRACT: Purpose: The study will determine whether students diagnosed with dyslexia will benefit from speech therapy services based on phonemic and phonological awareness treatment given an individualized education plan.
Participants: The study will focus on 5 male students with dyslexia from the third grade. The students will come from average socioeconomic and monolingual English speaking homes. They will have reading deficits with no additional impairments.
Methods: Therapy will focus on developing phonological awareness, semantic and syntactic development, and reading fluency. After 6 months of therapy, the student’s reassessment scores will be compared to original scores.
Easel Number (8) “Vocational Interview Support for Persons with Traumatic Brain Injury”
Alicia Canada

Objective: Traumatic brain injury (TBI) leaves individuals with vocational difficulties. The aim of this study is to examine interview performance of adults with TBI.

Design and Method: One participant will be recruited from the general population without head injury. Two of the participants will be recruited from the general population with a diagnosis of TBI. Of these two participants, one will receive only speech therapy services; the other will receive speech therapy services accompanied with vocational interview preparation techniques. Five human resource professionals will watch a 10-minute recording of the interview and complete a questionnaire of possible hiring rate.

Easel Number (9) “Memory Deficits and Quality of Life in Post-Traumatic Brain Injury”
Rachael Carlton

Traumatic brain injury is known to negatively impact a multitude of functions and produce deficits in memory; however, studies that determine which type of memory deficit that generates the best quality of life post-injury are limited. In this non-participatory single-subject research study, four individuals each exhibiting a deficit in episodic memory, semantic memory, prospective memory or working memory will be observed over the course of a year to support this hypothesis.

Easel Number (10) “The Benefits of Signing Exact English and the Increase of Reading Development in Deaf or Hard of Hearing Students”
Martha Cavazos

The relationship between vocabulary and comprehension suggests that the bigger the vocabulary, the bigger the comprehension, and the more that one comprehends, the more words that are in the student’s inventory (Nielson, Luetke, & Stryker, 2010). The problem with this development occurs when a deaf or HOH student moves beyond primary-grade reading elements. Signing Exact English is designed so that every sign represents a morpheme of a word. This study will be done by conducting a single-subject and group design by comparing the individual and group’s scores on language assessment to before and after SEE has been introduced.

Easel Number (11) “The Effects of Student Engagement On GPA and Retention at West Texas A&M University”
Reid Copelin

Retention rates and average GPA are considered two of the most important indicators of student success on campus. Many universities like West Texas A&M University have tried to increase student involvement in campus organizations and campus activities as a way to increase retention rates. WTAMU started to keep track of student participation in campus organizations and campus events. The focus of our research is to determine if students that are involved in campus organizations or student activities obtain a high GPA, and to see if the retention rate of those students is higher than the WTAMU average retention rate.
Easel Number (12) “Does Customer Loyalty Pay, or Are You Paying For Customer Loyalty?”
Kendra Cox

Small business management and consistent profitability is a struggle in the highly competitive gasoline service station and c-store industry. Customer loyalty programs can be used to aid small businesses in earning repeat customers and gaining a competitive advantage amongst large chain competitors. These programs can be highly effective when managed and marketed effectively but usually come at a cost. This study analyzes the effectiveness of a marketing campaign designed to increase participation of a customer loyalty program at two small family owned c-stores. Ultimately, it will determine if customer loyalty pays, or if you are paying for customer loyalty?

Easel Number (13) “The Comparison of the Language Acquisition of Internationally Adopted Children from China and Eastern Europe”
Kenzie Cunningham

This longitudinal study will compare and contrast the language development of internationally adopted children from Eastern Europe and China. Most children who acquire a second language experience a loss in their first learned language when adopted internationally.

Easel Number (14) “Comparisons of using 1RM bench press and submaximal repetition to fatigue bench press to assess upper body strength”
Josh Daniel

Co-Authors: Mario Gonzales, Kaemon Vigil

For the purpose of assessing upper body strength, a wide variety of testing protocols have been used. By narrowing them down to two separate forms of assessment, we have focused on the comparisons of using the 1 repetition max (1RM) bench press and the submaximal repetition to fatigue bench press. Based off previous research of trained athletes’ performance on 1RM and the use of regression equations for predicting 1RM, our studies show that both tests can be considered as valid and reliable means of testing upper body strength.

Easel Number (15) “Can Two Different Fish Species Survive in Aquaponics?”
Laura Ballinger

Research on producing food using less overall environmental impact than conventional sources is more imperative than ever. This experiment uses Lctalurus punctatus (Channel catfish), Oreochromis mossambicus (Mozambique Tilapia), kale, and basil in a closed-loop aquaponics system to find what combination produces the best yield using untreated low quality tap water. The experiment is still running, but a completed experiment on aquaponics (Goodman, 2011) showed similar expected results with higher than average vegetable yields. Goodman (2011) also stated that “almost any fish can be cultivated using aquaponics” and “plants with low to medium nutritional requirements do well, such as lettuces, greens, and herbs” (Goodman, 2011).

Easel Number (16) “Documentation of 50% water conservation in a single process at a beef abattoir”

Carson Drennan

Co-Authors: Dr. Robert DeOtte, Dr. Ty Lawrence

The research objective was to prove that beef processing facilities could substantially reduce water consumption. The head wash process is susceptible to the use of excess water. To provide objective measures of relative cleanliness, changes in red saturation levels before and after wash were determined. The original 112 nozzle configuration operated at 275 kPa, used an average 152 L/hd, and resulted in a final red saturation of 5%. After optimization 40 nozzles were removed (72 remained), operating pressure was decreased to 138 kPa, and post wash red saturation was 7.5%. This reduced water use to 78.4 L/hd (48% reduction).

Easel Number (17) “Music, gait training, and measures of quality of life in Parkinson’s Disease patients: A literature review”

Kelli DuBois

Co-Authors: Laura Reyher, Hope Wentz

Parkinson’s disease (PD) is a progressive neurodegenerative disorder that is commonly associated with mobility dysfunctions. Research has shown that musical rhythm and cueing can improve mobility and decrease gait abnormalities in PD patients. This poster will present the literature review of the effects of music rhythm on gait parameters and the various gait analysis methods. The poster will also outline the most common gait parameters in PD research.

Easel Number (18) “Flexibility: Sit and Reach Test and Back-Saver Sit and Reach Test”

Lyndsie Dunson

Co-Authors: Riki Jines, Joslin Alberique

Many different tests can be utilized to evaluate a person’s hamstring flexibility. The most common hamstring flexibility tests used by health professions are the sit-and-reach test and the back-saver sit-and-reach test. These tests are often chosen because of the small amount of space and instruments required, easy examination, and easy to perform. These tests are reliable for subjects of all ages and both genders. Both test have proven to be equally reliable for hamstring flexibility in women and men.
Easel Number (19) “Music Therapeutic Caregiving Increasing Communication in Persons with Dementia”

Natalie Edmonson

Global prevalence of dementia is currently estimated at 30 million cases and is predicted to grow to approximately 100 million by the year 2050 (Hammar, Emami, Engstom, & Gotell, 2011). While expressive and receptive language is hindered in dementia, music is still present receptively in PWD until later stages of dementia. Therefore, the question is posed; does music therapeutic caregiving increase communication (verbal and nonverbal) with caregivers in persons with dementia? This researcher predicts that there will be an increase in expressive and receptive language due to evidence of receptive language capabilities in the form of music.

Easel Number (20) “Dietary Diversity of Pronghorn and Cattle in the Northwestern Texas Panhandle”

Caroline Ellison

Co-Authors: Richard T. Kazmaier

Pronghorn are a species of hooved mammal that is native only to the western United States, including the Texas Panhandle. Landowners in the Texas Panhandle have expressed concern that pronghorn on their ranches are competing with their cattle for food. We are collecting fecal samples from both pronghorn and cattle in the Northwestern Texas Panhandle. We will use microhistology to analyze the fecal samples to determine the species of plants consumed. This data will be used to determine the differences in dietary diversity and dietary richness between the two species.

Easel Number (21) “Comparison of Language Abilities in Bilingual vs. Monolingual Children With Autism”

Nathalye Fasci

There are numerous articles stating the importance of bilingual languages in individuals with ASD. This is a needy study to be conducted considering the lack of research that is published. Although it is a crucial and vital part of dual language learners and children with ASD, it is not researched as often as it is in demand. This research proposal focuses on a study that will involve children with ASD ranging from 4;0 to 10;0 in Monolingual and Bilingual environments.

Easel Number (22) “African American English (AAE) and Emergent Literacy: The Complex Relationship between African American Boys Speaking AAE and the Effects on Literacy”

LaNeya Floyd

The purpose of this study is to examine the complex relationship between speaking African American English and reading achievement. African American boys, on average, score below their peers than other racial and ethnic groups when comparing literacy abilities, graduation rates, and college readiness. Consequently, many of these males, are virtually at a disadvantage when looking for higher education and employment, and are filling up the nation’s prisons at substantial rates. Due to the fact that children rely heavily on their oral language skills when learning how to read and write, it is important to investigate the sources of these skills.
Easel Number (23) “Effect of Interactive Metronome Training on Persons with Aphasia”
Erin Funkhouser

The Interactive Metronome (IM) is an innovative training tool that has been utilized in a variety of clinical applications. It is hypothesized to facilitate improvements in timing, rhythmicity, sequencing, and motor planning. These improvements are thought to generalize to higher level cognitive processes. Emerging literature is supportive of IM training in treating communication disorders but there has been little to no study of its efficacy in treating the language impairments caused by aphasia. The purpose of this research proposal is to investigate the effect of IM training on the language skills of persons with aphasia.

Easel Number (24) “Media Representation of The Deaf Community and Its Effect On Deaf Individuals”
Christa Glasgow

Focus groups and in-depth interviews look at how individuals who identify as Deaf are affected by the portrayals and lack of representation in the media of the Deaf culture. Many feel a lack of representation and turn to webisodes created by Deaf individuals. This also stems from poor quality of closed captioning on broadcast television. A trend is created of Deaf isolating themselves from the hearing world, leading to less interaction and education of hearing people about the Deaf culture. This lack of education results in the hearing not knowing how to interact with Deaf and many issues arise.

Easel Number (25) “The Design of a Multi-Purpose Super Critical Dryer”
John Mulloy
Co-Authors: Tanner Devenney, Zhitao Xie

The supercritical drying process is unique way of precisely extracting compounds from a target material, this method of extraction can be used in place of harmful organic solvents depending on their application. This process requires what is called a supercritical dryer, often times referred to as an autoclave. It is a pressure vessel designed to resist high pressures, temperatures, corrosive environments while facilitating solvent exchanges.

Easel Number (26) ““Sorry, Not Sorry”: Image Reparation Attempts in the NFL”
Jennifer Harker

The 2014/2015 National Football League’s (NFL) season is discussed, and an analysis of its 52 press and media releases are examined to identify the organization’s image reparation strategies that were applied to restore goodwill with the public following a perceived transgression by a football player, coach or owner, or an NFL team. Findings include the use of two general strategies from William Benoit’s Image Reparation Theory, corrective action and reduction of offensiveness; and three sub-strategies of transcendence, bolstering, and compensation. The NFL’s image reparation attempts were found to be little more than ineffective knee-jerk propaganda.
Easel Number (27) “Health and Wellness of Nursing Students”

Amy Harleson

Nursing students are subject to a unique type of stress that other university students do not work under. A full time course load, in-hospital clinical experiences, and other personal obligations, such as work and family commitments; all contribute to a decrease in overall health and wellness in the nursing student population. Various methods have proven successful including integrative curricula and complementary practices in improving overall student wellness. After looking in to the literature on nursing students’ health and wellness, it is clear that more can and should be done to promote wellness for nursing students.

Easel Number (28) “A Study on Impact of Time from Onset of Dysphagia to Initiation of VitalStim Therapy”

Hanna Harrison

VitalStim, is a controversial approach to the treatment of dysphagia, that is gaining clinical popularity (Shune & Moon, 2012). VitalStim was designed to be applied while simultaneously engaging the patient in swallowing exercises (VitalStim Therapy System, 2015), which should indicate that swallow function in patient outcomes will improve if the treatments are used in combination. However, there is no study that provides significant evidence on impact of time from onset of dysphagia to initiation of VitalStim therapy. There is a possible role in patient outcomes determined by amount of time between diagnosis of dysphagia and initiation of VitalStim.

Easel Number (29) “Are There Abnormalities With the Vocal Fold Process When Stuttering”

Lindsey Hendrix

Stuttering is a communication disorder that presents challenges to individuals coping with fluency. This research will gain insight to physiological events occurring with vocal folds during stuttering and non-stuttering episodes. This study will determine if there are abnormalities with vocal fold processes in male and female research participants between 15 and 50 years of age. Observations of the vocal folds using a flexible endoscope will compare the appearance and movement during repetitious stuttering events. This research is designed to answer the question of whether vocal fold abnormalities contribute to disfluencies.

Easel Number (30) “In 10- to 11-Year-Old Males, is Stuttering Modification or Fluency Shaping Therapy More Effective in Treating an Intermediate Fluency Disorder?”

Jenna Herd

There are two specific types of treatment methods used in fluency therapy, fluency shaping and stuttering modification. The affective treatment goals involved with stuttering modification are aimed at reducing fears and avoidance behaviors by “identifying, studying, and understanding thoughts, feelings and attitudes about communication and oneself as a communicator”. (Shapiro, 1999) With fluency shaping, stuttering is said to result from being learned, the only acceptable goals are “spontaneous fluency, and controlled fluency” (Shapiro, 1999). This study will examine the most accurate therapy to use on 10-11 year old intermediate stutterers who have an emotional disturbance linked to their stutter.
In mammals, clock genes have been localized in both the nerve plexus of the muscularis externa and in the cells of the mucosal epithelium of the duodenum. In the current study, duodenal epithelial cells will be isolated from mice and used to create a primary dispersed cell culture model in which epithelial cells are highly enriched. The cultures will be stained and imaged to quantify viability and culture homogeneity. The results will be used to cultivate and refine this high purity duodenal epithelial culture as a novel in vitro model for studying circadian rhythms of the gastrointestinal tract.

**Easel Number (32) “Effectiveness of Treating Parkinson’s Patients with Hypophonia Using A Single or Dual Approach”**

Ellen James

The purpose of this study will be to determine if using the Lee Silverman Voice Treatment (LSVT), or “SpeechVive”, in a single or dual approach will yield long-lasting increases in vocal loudness in a small group of speakers with hypophonia, a secondary condition to Parkinson’s disease (PD). The other objective is to examine the participant’s quality of life prior to treatment, during treatment, and after the completion of the study. Pre-to-post-treatment changes in vocal loudness in three treated groups will be compared with changes in voice level over a four-year time span.

**Easel Number (33) “Can the Functional Movement Screen Decrease Dysfunctional Movement Patterns?”**

Melani Kelly

The Functional Movement Screen (FMS) is used as a screening tool comprised of seven tests established from the most common movements related to normal activities of daily living. The FMS identifies dysfunctional movement patterns, asymmetries and limitations from those seven tests and provides corrective exercise protocols pertaining to the above. According to previous research, the injury risk greatly increases when an individual’s score is at or below a 14 on the FMS. This study aims to examine how well the corrective exercise protocols prescribed from the FMS theory work towards improvement of daily living activities.

**Easel Number (34) “Design of Hydroelectric Generator for use in Third World Countries”**

Trent Kelly

Co-Authors: Zach Lechner, Dixon Hammer, Logan Hoff, Benton Allen

This project entails the design of a prototype drop-in hydroelectric generation system for use in third world countries. The system is capable of providing small amounts electricity in remote areas that cannot support traditional renewable energy harvesting systems. The design is minimally invasive towards the host river and can be installed with limited effort and infrastructure. This small-scale hydroelectric system will allow many remote settlements access to electric power. This modernization will drastically improve education, healthcare, sanitation, communication, and water purification in isolated areas.
Easel Number (35) “MICROSATELLITE DNA VARIATION AMONG SEPARATE BULL SHARKS (CARCHARHINUS LEUCAS) POPULATIONS”

Erica Knowles

The Bull shark (Carcharhinus leucas) is a common worldwide tropical and subtropical species in marine, estuarine, and freshwater habitats. They are the only shark species that is capable of tolerating long-term exposure to freshwater and have been found in both rivers and lakes. Analysis of genetic population structure in sharks often uses mitochondrial or microsatellite DNA to examine gene flow. Fragment analysis was performed on amplified DNA from samples obtained from the Pacific, Eastern Gulf, Western Gulf, Caribbean, and Atlantic Ocean. The results from show genetic relatedness between each organism. This creates the basis for forming a genetic management plan.

Easel Number (36) “The Influence of Socio-economic Status on Language Development”

Christina Lopez

Socio-economic status affects a multitude of areas, including language development. Differences in acquirement of language are often found in children with a low socio-economic background. Areas within language that are affected have decreases in vocabulary, complexity of utterances, and overall low language performance. This decrease is thought to be due to language learning experiences the children are exposed to, which can affect the child’s language negatively or positively, dependent upon the experiences. The primary objective of this research proposal is to explore the various effects that a child’s socio-economic status has on his/her language development.

Easel Number (37) “VACANT”

Easel Number (38) “The Benefits of Using a Total Communication Approach in Aural Habilitation for Older Children with Cochlear Implants”

Maxine Martinez

This study examines the benefits of providing aural habilitation that integrates American Sign Language and English for children who received cochlear implants before age 3. There is limited information on the language development of children who were implanted early in life with little to no intervention until elementary age. A year-long study using two ASL dominant groups is proposed to determine the potential for advancement of English proficiency. One group will use a total communication approach while the other will use an oral language approach. The outcome of the study will determine the best method for achieving functional bilingualism.
Easel Number (39) “Factors Influencing the Retainment of Agriculture Science Teachers”

Tyler McCoy

The purpose of this study was to identify the key factors that are drawing and pushing perspective students from the field of Agriculture Education. In order to accomplish this, a survey was compiled to identify these factors that have drawn individuals to the field, as well as key individuals that have helped influence the decision to become an Agriculture Science Teacher. This survey was sent out to all of the Agricultural Science Teachers across the state of Texas. The data collected will be able to identify key factors that lead qualified individuals to become the next generations of Agriculture Educators.

Easel Number (40) “Star Formation in the Zw1400+09 Poor Cluster Galaxies”

Alyssa McElroy

Galaxies in dense clusters are known to have less gas and star formation, likely due to environmental interactions within the clusters. Less is known about the properties of galaxies in lower density poor clusters and group environments. In this project, star formation properties of galaxies in the Zwicky 1400+09 (NRGb282, NGC 5416) poor cluster were found by reducing and analyzing narrowband Hα and broadband R images taken with the WIYN 0.9 m MOSAIC camera at Kitt Peak National Observatory. Surface photometry and total star formation rates and extents are presented for a sample of galaxies within the cluster.

Easel Number (41) “Potential Impact of Produced Water on Smectitic Clay Soils Featuring Slickensides”

Kara Mjolhus

Subsurface soils have sequences of thick compacted clays used as barriers because they are thought to be impermeable. These clays however, contain features known as slickensides. Slickensides are grooved surfaces that occur along shear planes within the soil. These shear planes result from the shrink-swell action that accompanies cycles of wetting and drying as soil aggregates move past one another creating small micro-fractures. As hazardous chemicals are being placed in landfills and pits, the slickensides are acting as potential pathways for chemical migration. This study will investigate the potential impact sodic liquids will have on the permeability these clays.

Easel Number (42) “Test to determine and compare lower leg power in people from various age groups, 7 years to 70 years.”

Allison Nafey

Co-Authors: Kim McGuffin, Megan Perry

The aim of this study was to observe the outcomes of the Sargent’s Test to determine leg power of people seven years of age to seventy years of age. Twenty-five participants were selected at random. The participants were asked to perform the test twice, and the highest scores were recorded. From the data collected from other studies, it was concluded that the Sargent’s Test was more appropriate for people between the age group of 17 to 40.
Easel Number (43) “A Dual Treatment Approach for Childhood Apraxia”

Angelique Nhan

Angelique Nhan Communication Disorders Abstract: This study will investigate the outcome of a dual treatment approach for childhood apraxia. The two approaches in comparison are traditional articulation therapy paired with non-speech oral motor exercises and a single treatment approach of solely traditional articulation therapy for children with apraxia. The subjects for this study will include two female four-year-olds who are English speaking. Outcome percentages resulting from the dual treatment approach will be assessed for an improved, neutral, or decreased progress of consistency of accurate production of speech when compared to traditional articulation therapy alone for childhood apraxia (CAS).

Easel Number (44) “Language Therapy for Inmates with Specific Language Impairments”

Amy Pitman

The profound effect on an inmate with a language impairment can have devastating consequences on their quality of life in the prison system. Inmates with language impairments are often regarded as having discipline issues, when the real problem is a lack of understanding communication. This study will assess inmates for potential language impairments. From the assessments, inmates that are identified with language impairments will be given three months of language intervention therapy, and will be reassessed to determine communication and quality of life improvements.

Easel Number (45) “Vocational Outcomes for Individuals with Intellectual Disabilities”

Rachel Rakosky

The Individuals with Disabilities Education Act (2004) establishes implementation of transition services for individuals with intellectual disabilities (ID). The purpose of this research study is to answer the following question: Do individuals with intellectual disabilities achieve better vocational outcomes post high school with transition services? The study will use a survey-based design to obtain information about individuals with intellectual disabilities who have been employed. Employers of local businesses will provide information about the vocational outcomes of individuals with ID who are employed within ten years of leaving the special education system and transitioning into adult life.

Easel Number (46) “VACANT”

Easel Number (47) “Measuring Millennials Purchases of Immediate Consumables through the Mobile Platform”

Zebulon Rolins

In order to understand why Millennials are more inclined to make food purchases via mobile application, this research has been constructed to visualize experiences that consumers top food brand mobile applications. Using Amazon’s Mechanical Turk, 1,000 participants will be recruited and asked questions regarding to brand affinity and mobile interactions. The research findings are expected to help give insights on what Millennials seek in mobile application experiences.
Claudia Rouchon

This study will examine the amount of training involved in using both the traditional hand-held electrolarynx versus the newly-developed hands-free, electromyographic, electrolarynx in order to determine which device requires less training. Several patients use a traditional electrolarynx; however, many complain about the “mechanical” sound of the device as well as how burdensome it is to have one hand occupied. The electromyographic electrolarynx uses the contraction or release of neck strap muscles to turn the device on and off as well as control pitch. Training methods using the traditional electrolarynx will be evaluated as well as training using the electromyographic electrolarynx.

Easel Number (49) “Fluoridated Water”
Sterling Schaeffer

Fluoride plays an important role in dental health. Although water fluoridation is important and helps prevent cavities, too much fluoride can cause fluorosis and permanently damage teeth. The objective of this project is to measure the amount of fluoride in the water from various sources. Through the use of ion chromatography, fluoride levels in different water sources will be measured. The water samples will be collected from city treated water, private well water, and natural bodies of water. The levels of fluoride will then be compared with the recommended amount as stated by the national regulations for water fluoridation.

Kristina Schmidt

There has been a vast amount of research conducted on autism spectrum disorders (ASD), however therapeutic approaches for children with ASD has been limited. Due to the lack of research previously conducted, the need for this study is critical. This single case study will investigate the association between animal-assisted therapy and the social interaction of a 10-year-old child with ASD. This study will follow a single-subject design, with two controlled treatment conditions: structured sessions one-to-one activities with the researcher and therapy dog, and one-to-one activities with the researcher and without the therapy dog.

Easel Number (51) “Investigation of the Macroeconomic Factors That Lead To Differences In Drug Overdoses By State”
Ean Schmitt

The purpose of this project was to examine which macroeconomic factors are relevant in determining why differences in the number of deaths due to drug overdoses by state exist. Data was gathered and then examined statistically through the use of a linear regression model. The relevant factors that were found were the unemployment rate, the percentage of adults with mental health issues in each state and an interaction term for those two factors. This indicates that in order to lower the amount of drug overdoses, states need to lower unemployment and provide greater health care for the mentally ill.
Easel Number (52) “Stability Profiles of Peptide-Modified Liposomes”

Michael Seth

Co-Authors: Maggie Webb

Liposomes are particularly efficacious drug delivery systems due to their biocompatibility, low toxicity, and ability to encapsulate a variety of chemotherapeutics. They can also be tailored to target a specific cell type with the addition of a targeting peptide to the liposomal membrane. Recent studies have shown the upregulation of the α3β1 integrin in metastatic breast cancer cells, presenting a viable target for peptide-modified liposomal drug delivery systems. In this study, we examined how peptide addition to liposomes would affect overall stability by comparing leakage rates of non-pegylated to non-pegylated targeted liposomes and pegylated to pegylated targeted liposomes.

Easel Number (53) “The Differences in American Products in Other Countries”

Danielle Shears

Globalization is making it easier to connect with people and expand business across the world. Barriers are being broken down, but differences between countries remain. Companies run into problems, such as language and cultural variances. Changes are made to slogans, brand names, and flavor of foods. Using an online survey, the experiences of students, faculty, and staff will assist me in discovering what must be considered to fit the culture of another country. What I hope to get out of this study is gaining a deeper understanding of what companies must go through when introducing the product into another country.

Easel Number (54) “A Literary Review of Comparison of Different methods to Measure Body Composition”

Daniel Soltero

Co-Authors: Erin Cumbest, Larnce Hicks

This is a literature review of different methods of body composition methods. It compares and contrasts several methods used and shows the pros and cons of each one. It looks to show the different aspects of each method such as difficulty of it, resources available to run each test and the skills need to conduct the test and perform for the test. Examples of the test that were analyzed include the Dual Energy X-ray Absorptiometry, the DEXA, skinfold test done with calipers, bioelectric impedance analysis, and underwater weighing.
Easel Number (55) “Combining Music and Language Therapy to Enhance Language Performance in Alzheimer's Dementia Patients”

Mariah Soluri

There is substantive literature reporting the benefits of music and music therapy programs for older adults with dementia. However, few studies have focused on how adding language therapy to therapy may contribute to increased language functioning in patients with Alzheimer’s dementia. Objectives of this study were to: evaluate the effect of combining music therapy with language therapy for subjects with Alzheimer’s dementia, identify and analyze changes in participation when answering questions using the Standard Mini-Mental State Examination after listening to music, and compare language performance following music and cognition therapy interventions versus conversation and language therapy sessions without music.

Easel Number (56) “GROWING GRAIN SORGHUM IN CLUMPS TO IMPROVE MICROCLIMATE AND GRAIN YIELD”

Sushil Thapa

The Texas High Plains is characterized by limited precipitation, high evaporation, wind speed, solar radiation, and vapor pressure deficit (VPD). A two-year greenhouse study was conducted to compare VPD, grain yield, yield components, and transpiration efficiency values between clump and conventional evenly spaced planting (ESP) geometries in grain sorghum. Mean VPDs within the clumps were consistently lower than those for ESPs. Clumps increased relatively the grain yield and significantly the harvest index (0.48 vs. 0.43). These results indicate that potential yield increases from this strategy are limited, but they can be beneficial because no additional inputs are required.

Easel Number (57) “Flight of No Return: An Examination of Wind Turbines and Their Impact on Avian Species”

Jack Truelock

In 2004, a lawsuit was filed against wind farms in Altamont Pass, California. A major theme of the lawsuit was the number of bird deaths each year as a result of the wind turbines. Eventually, the lawsuit was settled; but it raised questions regarding the environmental impact of wind farms. Are they safe to use over the long term? Or is this “renewable” energy source creating environmental havoc? This research examines studies regarding the connection between bird fatalities and the presence of wind turbines as well as the impact of communication towers and other structures on birds.
Easel Number (58) “Free Throw Shooting Kinematics of non-Proficient College Students”

Dorian Vela

Co-Authors: Chris Cavitt, Jose Rodriguez, Billy Ceniceros, Robert Padget

Shooting free throws is an important skill for recreational basketball players. The aim of our study is to analyze joint angles at release point (elbow, knee, and hip) and their correlation with performing a successful free-throw shot. In this study the researchers will also investigate the differences in techniques (joint range of motion) between male and female novice players while shooting a free throw. As there is no “standard” method of shooting a free throw, some differences do exist in the tendencies of how men and women shoot free throws, and this project will be investigating those differences.

Easel Number (59) “Dirty ice cubes? AHPCO and Plasma Nanotechnology”

Mitsy Veloz

Co-Authors: Nabrun Ghosh, Jeff Bennert, Danius Bouyi

Dirty ice machine causing contamination via ice cubes is also a major health problem in other countries including the United States. To prevent any potential contamination, the interior surface biofilm microflora in the ice machine must be sanitized regularly. We evaluated the Bi-Polar® (Air Oasis) in sanitizing the ice machine surface. It creates cold plasma discharge of positive and negative ions from vapor in the air. Prepared slides from bacterial colonies stained with Gram staining, fungi with Cotton Blue were observed and micrographed with a Leica DM-750 microscope. After running the Bi-Polar® there was a significant reduction in microbial entities.

Easel Number (60) “'Twin Language' and its Involvement with Normal Speech and Language Development in Children”

Kelley Wagner

This study will add knowledge of twin language and whether it's beneficial or harmful to normal language development in twins. This longitudinal study will observe twin language in three sets of four-year-old twins over a six-month period. Speech and language assessments will be administered at the start and completion of the study. Observations will be gathered of the twin’s activities of daily living and the use of twin language will be documented. This study will aid in establishing if early speech and language intervention is beneficial for normal language development in twins that exhibit the use of twin language.
Easel Number (61) “Effects of General Anesthesia on Language Development in Children”

Amy Wauhob

The purpose of this study is to determine if small children exposed to general anesthesia, a single or multiple times before the age of three, are at a greater risk of developing language deficits compared to their peers and exhibit language disorders or impairments in their early childhood. This will be accomplished by comparing milestone onset and language development assessment scores, both receptive and expressive, of children exposed to anesthesia under age three to those of unexposed children. Results of this study may enable children at risk for language impairment to be identified earlier.

Easel Number (62) “Analysis of Knee Kinematics of a Box Jump in Healthy Individuals”

Kristen Weis

Co-Authors: Avelino Rosales, Brittneigh McAvey, Ashleigh Grizzle

Box jumping is a new popular trend in training. The purpose of this study is to do a kinematic analysis of a box jump for 3 different box heights. The hip, knee, and ankle joint angles at the time of landing on the box will be evaluated in the sagittal plane (side view). The knee valgus at the time of landing will be evaluated in the frontal plane (front view). The 3 box heights are 20cm, 30cm, and 40cm. Ranges of motion of the 3 joints from the start of the movement to the landing will be recorded. (98)

Easel Number (63) “Methods to Assess Agility in Sport: A Literature Review”

Mitchell Whitehead

Co-Authors: Selina Vega, Melissa Montanez

A literature review to evaluate various ways agility is measured was performed. The effectiveness of the tests was assessed. In some of the studies one and two dimensional plyometric models were used. It was found that both models were reliable for measuring agility but neither one was better than the other.

Easel Number (64) “Language Combined With Behavioral Therapy: The Affects It Has On Personality”

Chase Young

This study will determine if direct behavioral intervention combined with language treatment increases appropriate behavior more than language therapy among adolescents males who have sustained a traumatic brain injury. The participants are 13-15 years of age who exhibit language deficits and behavioral problems after a traumatic brain injury. This study will observe these participants over a 3-year period. During the 3-year period, the researcher will compare subjects that received behavioral intervention along with language therapy to subjects that just received language therapy alone. The researcher hypothesizes that direct behavioral intervention combined with language therapy will increase appropriate behavior.
Easel Number (65) “The Effectiveness of Early Childhood Intervention”
Morgan Young

The purpose of this study is to determine the effectiveness of Early Childhood Intervention (ECI) with regard to speech-language pathology. Speech-language pathologists (SLPs) in the panhandle region of Texas will complete a five-question survey comparing children on their caseloads who received ECI services to children who began receiving services in kindergarten in the areas of preparedness for school, speed of advancement in therapy, and amount of services needed. The study will answer the research question: Are children who received ECI services more prepared and in need of fewer services than children who began receiving speech-language services in kindergarten?

Easel Number (66) “The Night Sky”
Ekin Aytac

Currently, I am developing objects of cast glass and applying a custom paint formulated by a local artist. The processes of sculpting glass and surfacing custom paint are very similar, especially in regards to the control and fineness of surface. Also, the desired finish of cold worked glass and paint is similar as well and combining the two helps to highlight and emphasize each component's spectacular look. Further, no one in either field has experimented with this technology and glass together. With this study, I am forging new processes and hoping to create a new style in the glass art.

Easel Number (67) “Anaxyrus Hybridization in Texas”
Sumner Wingo

Hybridization happens rather frequently between species of the toad genus Anaxyrus (formerly Bufo). This interspecific hybridization can cause problems with identifying the species, make it more difficult to create effective management plans, and make ongoing management efforts less effective. The goal of this research is to identify the extent of hybridization of the species Anaxyrus in Texas. This goal will be achieved by obtaining samples of several Anaxyrus in Texas and using microsatellites to identify the different species through their genes and identify hybrids and the parental species of the hybrids.
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Name: Padgett, Robert  
Co-Authors: Dorian Vela, Chris Cavitt, Billy Ceniceros, Jose Rodriguez  
Presentation Title: “Free-Throw Shooting Kinematics of Non-Proficient College Students”  
Presentation Type: Poster Presentation  
Location: Alumni Banquet Hall, Easel 58, 11:30 AM - 1:30 PM

Name: Paudyal, Sushil  
Co-Authors: J T. Richeson, F. Pauline, PJ. Pinedo  
Presentation Title: “Rumination and activity monitoring to predict diseases during transition period”  
Presentation Type: Oral/Paper Presentation  
Location: Jack B. Kelley Student Center, Session III, Thunder Room 35, 12:40 - 1:40 PM
Name: Perry, Megan  
Co-Authors: Kim McGuffin and Allie Nafey  
Presentation Title: “Test to determine and compare lower leg power in people from various age groups, 7 years to 70 years”  
Presentation Type: Poster Presentation  
Location: Alumni Banquet Hall, Easel 42, 11:30 AM - 1:30 PM

Name: Pina, Johanna  
Co-Authors: M. D. Eder “Dream Psychology.”  
Presentation Title: “Hidden Messages”  
Presentation Type: Oral Presentation  
Location: Jack B. Kelley Student Center, Session I, Maroon Room 37, 9:00 - 10:00 AM

Name: Pitman, Amy  
Presentation Title: “Language Therapy for Inmates with Specific Language Impairments”  
Presentation Type: Poster Presentation  
Location: Alumni Banquet Hall, Easel 44, 11:30 AM - 1:30 PM

Name: Rakosky, Rachel  
Presentation Title: “Vocational Outcomes for Individuals with Intellectual Disabilities”  
Presentation Type: Poster Presentation  
Location: Alumni Banquet Hall, Easel 45, 11:30 AM - 1:30 PM

Name: Reyher, Laura  
Co-Authors: Kelli DuBois and Hope Wentz  
Presentation Title: “Music and Auditory Cueing in Gait Training for Parkinson's Disease: Pilot Study Set-up”  
Presentation Type: Oral Presentation  
Location: Jack B. Kelley Student Center, Session IV, Senate Chamber Room 16, 2:00 - 3:00 PM

Name: Reyher, Laura  
Co-Authors: Hope Wentz, Kelli DuBois  
Presentation Title: “Music, gait training, and measures of quality of life in Parkinson's Disease patients: A literature review”  
Presentation Type: Poster Presentation  
Location: Alumni Banquet Hall, Easel 17, 11:30 AM - 1:30 PM

Name: Rivera, Israel  
Presentation Title: “Effects of Social Media on the Hiring Process: Possibilities for Human Resources”  
Presentation Type: Oral Presentation  
Location: Jack B. Kelley Student Center, Session III, Senate Chamber Room 16, 12:40 - 1:40 PM

Name: Rodarte, Angel  
Presentation Title: “The Impact of Cataract Surgery on Quality of Life in Older Adults”  
Presentation Type: Oral/Paper Presentation  
Location: Jack B. Kelley Student Center, Session IV, Senate Chamber Room 16, 2:00 - 3:00 PM
Name: Rodriguez, Jose
Co-Authors: Bob Padgett, Dorian Vela, Chris Cavett, Billy Ceniceros
Presentation Title: “Shooting Free Throws”
Presentation Type: Poster Presentation
Location: Alumni Banquet Hall, Easel 58, 11:30 AM - 1:30 PM

Name: Rodríguez, Valeria
Presentation Title: “Analysis of the Antibacterial Properties Demonstrated by Silver Nanofoam”
Presentation Type: Oral/Paper Presentation
Location: Jack B. Kelley Student Center, Session I, Senate Chamber Room 16, 9:00 - 10:00 AM

Name: Rolins, Zebulon
Presentation Title: “Measuring Millennials Purchases of Immediate Consumables through the Mobile Platform”
Presentation Type: Poster Presentation
Location: Alumni Banquet Hall, Easel 47, 11:30 AM - 1:30 PM

Name: Rosales, Avelino
Co-Authors: Kristen Weis, Brittneigh McAvey, Ashleigh Grizzle
Presentation Title: “Analysis of Knee Kinematics of a Box Jump in Healthy Individuals”
Presentation Type: Poster Presentation
Location: Alumni Banquet Hall, Easel 62, 11:30 AM - 1:30 PM

Name: Rouchon, Claudia
Presentation Title: “Training Time: Traditional Electrolarynx versus Hands-Free Electrolarynx”
Presentation Type: Poster Presentation
Location: Alumni Banquet Hall, Easel 48, 11:30 AM - 1:30 PM

Name: Schaeffer, Sterling
Presentation Title: “Fluoridated Water”
Presentation Type: Poster Presentation
Location: Alumni Banquet Hall, Easel 49, 11:30 AM - 1:30 PM

Name: Schmidt, Kristina
Presentation Type: Poster Presentation
Location: Alumni Banquet Hall, Easel 50, 11:30 AM - 1:30 PM

Name: Schmitt, Ean
Presentation Title: “Investigation of the Macroeconomic Factors That Lead To Differences In Drug Overdoses By State”
Presentation Type: Poster Presentation
Location: Alumni Banquet Hall, Easel 51, 11:30 AM - 1:30 PM

Name: Seth, Michael
Co-Authors: Maggie Webb
Presentation Title: “Stability Profiles of Peptide-Modified Liposomes”
Presentation Type: Poster Presentation
Location: Alumni Banquet Hall, Easel 52, 11:30 AM - 1:30 PM
Name: Sharp, Rylee  
Presentation Title: "The Centre of Paralysis": Tracing the Feminine in James Joyce's "Dubliners"  
Presentation Type: Oral/Paper Presentation  
Location: Jack B. Kelley Student Center, Session I, Senate Chamber Room 16, 9:00 - 10:00 AM

Name: Shaw, Chandler  
Presentation Title: "Kinged, Unkinged, and Kinged Again: Re-Mystifying the Throne in "Richard II""  
Presentation Type: Oral/Paper Presentation  
Location: Jack B. Kelley Student Center, Session II, Thunder Room 35, 10:10 - 11:10 AM

Name: Shears, Danielle  
Presentation Title: "The Differences in American Products in Other Countries"  
Presentation Type: Poster Presentation  
Location: Alumni Banquet Hall, Easel 53, 11:30 AM - 1:30 PM

Name: Smith, Myles  
Presentation Title: "Game Changer: Game Changer: An Ideological Criticism of The Hunger Games"  
Presentation Type: Oral/Paper Presentation  
Location: Jack B. Kelley Student Center, Session III, West Texas Room 33, 12:40 - 1:40 PM

Name: Smith, Myles  
Presentation Title: "An Exploratory Study of "Selfies" and their Use in Social Media."  
Presentation Type: Oral/Paper Presentation  
Location: Jack B. Kelley Student Center, Session IV, Thunder Room 35, 2:00 - 3:00 PM

Name: Soltero, Daniel  
Co-Authors: Erin Cumbest, Larnce Hicks  
Presentation Title: "A Literary Review of Comparison of Different methods to Measure Body Composition"  
Presentation Type: Poster Presentation  
Location: Alumni Banquet Hall, Easel 54, 11:30 AM - 1:30 PM

Name: Soluri, Mariah  
Presentation Title: "Combining Music and Language Therapy to Enhance Language Performance in Alzheimer's Dementia Patients"  
Presentation Type: Poster Presentation  
Location: Alumni Banquet Hall, Easel 55, 11:30 AM - 1:30 PM

Name: Thapa, Sushil  
Presentation Title: "GROWING GRAIN SORGHUM IN CLUMPS TO IMPROVE MICROCLIMATE AND GRAIN YIELD"  
Presentation Type: Poster Presentation  
Location: Alumni Banquet Hall, Easel 56, 11:30 AM - 1:30 PM

Name: Thomas, Erica  
Presentation Title: "Molecular gender identification of porcupines (Erethizon dorsatum) in the Texas panhandle"  
Presentation Type: Oral/Paper Presentation  
Location: Jack B. Kelley Student Center, Session IV, Maroon Room 37, 2:00 - 3:00 PM
Name: Tovey, Devin  
Co-Authors: Jordan Bromley, Maddison Wild  
Presentation Title: “Dynamic Balance in Sport”  
Presentation Type: Poster Presentation  
Location: Alumni Banquet Hall, Easel 5, 11:30 AM - 1:30 PM

Name: Trabysh, Olivia  
Presentation Title: “Rwandan Genocide Memorials: A Threat to Enduring National Security”  
Presentation Type: Oral/Paper Presentation  
Location: Jack B. Kelley Student Center, Session I, West Texas Room 33, 9:00 - 10:00 AM

Name: Truelock, Jack  
Presentation Title: “Flight of No Return: An Examination of Wind Turbines and Their Impact on Avian Species”  
Presentation Type: Poster Presentation  
Location: Alumni Banquet Hall, Easel 57, 11:30 AM - 1:30 PM

Name: Vela, Dorian  
Co-Authors: Chris Cavitt, Jose Rodriguez, Billy Ceniceros, Robert Padget  
Presentation Title: “Free Throw Shooting Kinematics of non-Proficient College Students”  
Presentation Type: Poster Presentation  
Location: Alumni Banquet Hall, Easel 58, 11:30 AM - 1:30 PM

Name: Veloz, Mitsy  
Co-Authors: Nabrun Ghosh, Jeff Bennert, Danius Bouyi  
Presentation Title: “Dirty ice cubes? AHPCO and Plasma Nanotechnology”  
Presentation Type: Poster Presentation  
Location: Alumni Banquet Hall, Easel 59, 11:30 AM - 1:30 PM

Name: Vigil, Kaemon  
Co-Authors: Joshua Daniel, Mario Gonzalez  
Presentation Title: “Comparing 1RM bench press and submaximal repetition to fatigue bench press to assess upper body strength”  
Presentation Type: Poster Presentation  
Location: Alumni Banquet Hall, Easel 14, 11:30 AM - 1:30 PM

Name: Wagner, Kelley  
Presentation Title: ““Twin Language” and its Involvement with Normal Speech and Language Development in Children”  
Presentation Type: Poster Presentation  
Location: Alumni Banquet Hall, Easel 60, 11:30 AM - 1:30 PM

Name: Wauhob, Amy  
Presentation Title: “Effects of General Anesthesia on Language Development in Children”  
Presentation Type: Poster Presentation  
Location: Alumni Banquet Hall, Easel 61, 11:30 AM - 1:30 PM
Name: Wegman, Michaela  
Presentation Title: “The Gender Roles of Little Red Riding Hood”  
Presentation Type: Oral/Paper Presentation  
Location: Jack B. Kelley Student Center, Session II, Senate Chamber Room 16, 10:10 - 11:10 AM

Name: Weis, Kristen  
Co-Authors: Avelino Rosales, Brittneigh McAvey, Ashleigh Grizzle  
Presentation Title: “Analysis of Knee Kinematics of a Box Jump in Healthy Individuals”  
Presentation Type: Poster Presentation  
Location: Alumni Banquet Hall, Easel 62, 11:30 AM - 1:30 PM

Name: Wentz, Hope  
Co-Authors: Kelli DuBois, Laura Reyher  
Presentation Title: “Music and Auditory Cueing in Gait Training for Parkinson's Disease: Pilot study set-up.”  
Presentation Type: Oral Presentation  
Location: Jack B. Kelley Student Center, Session IV, Senate Chamber Room 16, 2:00 - 3:00 PM

Name: Wentz, Hope  
Co-Authors: Laura Reyher, Kelli DuBois  
Presentation Title: “Music, gait training, and measures of quality of life in Parkinson's Disease patients: A literature review”  
Presentation Type: Poster Presentation  
Location: Alumni Banquet Hall, Easel 17, 11:30 AM - 1:30 PM

Name: Whitehead, Mitchell  
Co-Authors: Selina Vega, Melissa Montanez  
Presentation Title: “Methods to Assess Agility in Sport: A Literature Review”  
Presentation Type: Poster Presentation  
Location: Alumni Banquet Hall, Easel 63, 11:30 AM - 1:30 PM

Name: Wild, Maddison  
Co-Authors: Devin Tovey, Jordan Bromley  
Presentation Title: “Dynamic Balance in Different Sports”  
Presentation Type: Poster Presentation  
Location: Alumni Banquet Hall, Easel 5, 11:30 AM - 1:30 PM

Name: Wingo, Sumner  
Presentation Title: “Anaxyrus Hybridization in Texas”  
Presentation Type: Poster Presentation  
Location: Alumni Banquet Hall, Easel 67, 11:30 AM - 1:30 PM

Name: Wood, Samson  
Presentation Title: “Present Applications of Nanotechnology in Healthcare and Civil Engineering”  
Presentation Type: Oral/Paper Presentation  
Location: Jack B. Kelley Student Center, Session IV, West Texas Room 33, 2:00 - 3:00 PM
Name: Young, Chase
Presentation Title: “Language Combined With Behavioral Therapy: The Affects It Has On Personality”
Presentation Type: Poster Presentation
Location: Alumni Banquet Hall, Easel 64, 11:30 AM - 1:30 PM

Name: Young, Morgan
Presentation Title: “The Effectiveness of Early Childhood Intervention”
Presentation Type: Poster Presentation
Location: Alumni Banquet Hall, Easel 65, 11:30 AM - 1:30 PM
Dr. Steve H. Murdock is the Allyn R. and Gladys M. Cline Professor of Sociology at Rice University. He previously served as Director of the U.S. Bureau of the Census having been nominated for the position by President Bush and unanimously confirmed by the U.S. Senate in 2007 and serving until the change in administration in January of 2009. Prior to his appointment at Rice, he was the Lutcher Brown Distinguished Chair in Demography and Organization Studies at the University of Texas at San Antonio (UTSA) and the Director of the Institute for Demographic and Socioeconomic Research. Before UTSA, Murdock was a Regents Professor and Head of the Department of Rural Sociology at Texas A&M University. He was also the official State Demographer of Texas. He was appointed to this position by Governor Rick Perry and was the first person to occupy this position.

Dr. Murdock earned his Ph.D. in demography and sociology from the University of Kentucky and is the author or editor of 15 books and more than 150 articles and technical reports on the implications of current and future demographic and socioeconomic change. He is the recipient of numerous honors and awards. These include the Faculty Distinguished Achievement Award in Research from Texas A&M University, the Excellence in Research Award and the Outstanding Rural Sociologist Award from the Rural Sociological Society, The Distinguished Alumni Award from North Dakota State University and the Distinguished Alumni Award from the Department of Sociology at the University of Kentucky. He was named one of the fifty most influential Texans by Texas Business in 1997 and as one of the twenty-five most influential persons in Texas by Texas Monthly in 2005.

He is a member of the Phi Beta Kappa, Phi Kappa Phi, and Phi Eta Epsilon national honor societies.

Please join us in welcoming Dr. Murdock to the Panhandle and in celebrating women’s artistic accomplishments in the region.

For more information, email Dr. Pamela Lockwood at plockwood@wtamu.edu