2017 Fall Undergraduate Research and Creative Activity Forum
Thursday, November 16, 2017
Clark Student Center

Schedule Overview

8:00 – 9:00 AM
Atrium
Participant Check-In (students, moderators, evaluators)

Oral Presentations
Presenters bring PowerPoint files on a flash drive to corresponding venue. Please test presentation on the computer to make sure it works.

Poster Presentations
Presenters hang posters according to the number assigned in the program at 8:00-8:45. However, poster presenters can hang their posters, Wednesday, November 15, during the afternoon.

UGRCA Forum Sessions
Oral Presentations

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<th>Time</th>
<th>Session</th>
<th>Venue</th>
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<td>9:00 – 10:45 am</td>
<td>1A</td>
<td>Kiowa</td>
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<td>9:00 – 10:45 am</td>
<td>1B</td>
<td>Comanche Suites</td>
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<td>9:00 – 10:45 am</td>
<td>1C</td>
<td>Wichita I &amp; II</td>
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<td>10:45 – 11:10</td>
<td>Break (refreshments)</td>
<td>Comanche Foyer</td>
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<td>11:10 am – 12:50 pm</td>
<td>2A</td>
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<td>2C</td>
<td>Wichita I &amp; II</td>
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<td>1:05 – 3:25 pm</td>
<td>3A</td>
<td>Kiowa</td>
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<td>3:00 – 3:30 pm</td>
<td>Break (refreshments)</td>
<td>Comanche Foyer</td>
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<td>4:00 – 5:00 pm</td>
<td>Removal of posters and dissemble of poster stands</td>
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<td>4:30</td>
<td>Award Ceremony</td>
<td>Comanche Suites</td>
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Poster Presentations
9:00 AM – 4:00 PM
Clark Student Center Atrium

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<th>Session</th>
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<td>9:00-10:30 AM</td>
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<td>3</td>
<td>1:00-2:30 PM</td>
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<td>4</td>
<td>2:30 – 4:00 PM</td>
<td>24-30</td>
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*Students will be at the posters at indicated times for evaluation. Outside those times, students may come and go and/or be at their poster at any time for dissemination purposes.
Oral Presentations
Kiowa

Session 1A
9:00 – 10:40 am
Moderator: Melissa Nivens

9:05-9:25 (O1) Kentzie Rhodes, Brady Burross, Denzel Kinyua, Michael Reynolds, Alan Peregrino. PLC Operated Pick and Place Pneumatic Robot

9:30: 9:50 (O2) Hettyadura Shehan Karunaratne Benford’s Law and its Application in Financial Statements to Detect Fraud

9:55 – 10:15 (O3) James Ivey, Joshua Munoz, Juan Orozco, Seth Witherspoon, Dual Planetary and Chain Based Car Transmission

10:20 – 10:40 (O4) Danielle Arrington, Brandon Allan, Eric Savage, Daryn Sims Midwestern State University Echometer Slippage Research

Comanche Suites

Session 1B
9:00 – 10:40 am
Moderator: Daria Close

9:05-9:25 (O5) Kenneth Griffin, Mpathi Nzima Intelligent Robotics Using Computer Vision

9:30: 9:50 ((O6) Sean Egloff, Hunter May, Latham Moody, Tyler Parnell, Zeltzin Reyes The Hound Drone

9:55 – 10:15 (O7) Matthew D. Matlock, Crystal Williams, Hotter ‘N Hell Study: Quantitative Phase Final Results

10:20 – 10:40 (O8) Kaushik Sunil Shah, Forecasting Regional Output Level: Case of Wichita Falls MSA, TX

Wichita I & II

Session 1C
9:00 – 10:40 am
Moderator: Lauren Jansen

9:05-9:25 (O9) Nicole Longo Unnecessary Aggression

9:30: 9:50 (O10) Gisselle Polius Gender Constraints in Business


10:20-10:40 (O12) James Trevino, Modeling Mobile Advertising Click Fraud Problem Using TensorFlow
Kiowa
Session 2A
11:10 am – 12:50 pm
Moderator: Chris Vivio

11:40 – 12:00 (O14)  Vongai Nyikayaramba and Kristen Moss, Salt Ions Separation Study When Exposed to an Electric Field
12:05 – 12:25 (O15)  Rojitha Goonesekere, Ryan Fidlar, Chiezda Tokonyai, Nicholas Jaramillo
Deep Sea Exploration using an Intelligent Unmanned Drone Fleet
12:30 – 12:50 (O16)  Hailey Morris, Educational Reach Gone Wrong

Comanche
Session 2B
11:15 am – 12:50 pm
Moderator: Jeff Blacklock

11:15 – 11:35 (O17)  Bailey Kaufman and Christian Gregory
Design and Construction of a Wind Tunnel
11:40 – 12:00 (O18)  Melissa Rose
Effect of Growth Conditions on Cell Surface Hydrophobicity of Candida albicans
12:05 – 12:25 (O19)  Nikki Bussue
Co-Teaching Model: Making a Difference for Teaching and Learning
12:30 – 12:50 (O20)  Duli De Alwis, Brett Scheffe, and Jocelyn Brown
Improving Plate Heat Exchanger Design to Increase the Pressure Tolerance Limit

Wichita I & II
Session 2C
11:00 am – 12:40 pm
Moderator: Sally Henschel

11:40 – 12:00 (O22)  Herbert McCullough and Natalia Zamora Garcia, Gender-Violence and Displacement: Assessing the Transit State Security Gaps for Women and Girls in the Northern Triangle and Syrian Refugee Crises
12:05 – 12:25 (O23)  Courtney Waldron, Ashley Baird, Chappell Whyms
Utility of Religious Goods
12:30 – 12:50 (O24)  Aaron Stewart, Colton Kowalick, Victor Juarez, Jason Hill, Automated Pneumatic Stamping Cycle
Kiowa
Session 3A
1:00 – 3:25 pm
Moderator: Niyati Kataria

1:05 – 1:25 (O25) **Damian De Silva**, *Forward Premium Anomaly and The Trend Behavior of The Exchange Rates: A Literature Survey*

1:30 – 1:50 (O26) **Mitchell Henton, Corbin Matamoros**, *Flow Loop Systems with Heat Transfer and Compressible Air*

1:55 – 2:15 (O27) **Russell Bega**, *Friede sei mit dir: The Forgotten German-Catholic Colonies of North Texas*

2:20 – 2:40 (O28) **Nathaniel Shawver**, *Color and Pattern Associations, and Correlation with Individual Perception and Behavior*

2:45 – 3:05 (O29) **Bethany Russell**, *Combatting Antibiotic Resistance Through the Reversion of Chromosomal Erythromycin Resistance in Escherichia coli*

3:10-3:20 (O30) **Colton Dorion, William Hendrickson, Kennan Marino, Kevin Tracy**, *Development of a Lizard PBT Data Collection Apparatus*
Poster Presentations

CSC Atrium
Posters are displayed during the entire forum.
Presenters are responsible for taking down posters at 5:00 pm.

Poster Session 1
9:00 – 10:30 am

(P1) Jacqueline D’Ingianni, Glass Ceiling for Women: A Review of Legal Cases
(P2) Rebekah Bratton, Lorena Banda, Kaily Ashton, Comparison of Perceived Stress Between International and National College Students
(P3) Yenifher Valenzuela, Linking Executive Compensation to Firm Performance
(P4) Montserrath Garay, Frida Arredondo, From Margin to Center: Multicultural Picture Books for Math, Science, and Social Studies
(P5) Melissa Pennington, Katie Luna, Kasie Morris, Amanda Morrow, Perceptions of Bullying in Schools Among Teachers and Counselors
(P6) Alexandria Weiskircher, Continued Mineral and Textural Assessment of the Quanah Margin Granites in the Wichita Mountains, Oklahoma
(P7) Shadai John, Exposed Vesiculated Rhyolite Facies and the Relationship with Underlying Strata
(P8) Rojitha Goonesekere, Abigail Reyes, Control of Asymmetric Periodic motions in a Duffing Oscillatory Circuit

Poster Session 2
10:30 am – 12:00 pm

(P9) Alishia Johnson-Early, Mallory LeDoux, Jennifer Joss and Kalyn Johnson, Stress Amongst Student Athletes
(P10) Brooke Shewmake, Rita Solomon, Angela Urista, and Chris Smith, Occupational Burnout Between Social Workers and Nurses
(P11) Linda Drake, Mireya Gonzalez, Brittney Huff, and Glendonna Johnson, Perceptions of Sexual Assault Among College Students
(P12) Breanna Dial, Kristi Bustamante, Sandra Contreras, and Aspyn Derebery, Parents' Divorce and Fear of Intimacy Among College Students
(P13) Salvatore Capotosto, Mutandwa Machemedze, Meaghan Rose, Bacterial Endophytic Diversity in Relation to Seed Melatonin Content: Metabolic Implications
(P14) Natalie Ragland & Anthony Quezada, Antibiotic Resistance Due to Changes in the Drug Target
(P15) Jedesh Chandrasegaran, Understanding the Growth of A Cell through Entropy
Poster Session 3
1:00 – 2:30 pm

(P16) Rojitha Goonesekere, Don Wijesinghe, Search and Rescue Drone Network using Neural Networking methods

(P17) Carlyse Wallace and Juwel Williams, Enhanced Oil Recovery (EOR) Study Using Stiff Polymer Micro Porous Media Analogs

(P18) Kurlon George, Experiments in Digital Focal Stacking

(P19) Zeltzin Reyes, Abigail Reyes, Experimental Study of the Nonlinear Dynamics in a Duffing Oscillatory Circuit

(P20) Paytan Stubbs, Antibacterial and Antifungal Activity produced by Symbiotic Bacteria from Grass-Feeding Termites

(P21) Aaron D. DeVaul, Disparate Conditions & Perceptions in British Prisons Along Racial & Ethnic Lines

(P22) Luke J. Saunders, Outcomes of Internet Mindfulness Training

(P23) Connie Ginnings, Karaoke and Its Effect on Reading Comprehension

Poster Session 4
2:30 – 4:00 pm

(P24) Hae Lee Han, Synthesis and Spectroscopic Studies of Dipyrromethene Complexes

(P25) Carson Barnard, Exploring the Medicinal Effects of Smooth Sumac

(P26) Sheldon Walsh, Jedeshkeran Chandrasegaran, Acid Effect (HCl) on The pH Value of Chemical Solutions

(P27) Melanie Ronoh, Vongai Nyikayaramba, Gayal Hewakuruppu
Using the Fourth-Order Runge-Kutta Method to Determine the Dynamic Response of a Free Vibrating Laminated Composite Shallow Shell Panel

(P28) Meaghan Rose, Isolation and Identification of Dalquest Yucca Soil Bacteria

(P29) Omar Clarke, Jomarie Leblanc, Sheldon Walsh, Dynamic Contact Angle Measurements