## Schedule Overview

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

### Oral Presentations

Presenters bring PowerPoint files on a flash drive to corresponding venue. See details below. Test Presentations on the computer to make sure it works.

### Poster Presentations

Presenters hang posters according to the number assigned in the program

## UGRCA Forum Sessions

### Oral Presentations

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<td>10:40 – 11:00</td>
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<td>Kiowa</td>
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<td>11:00 – 12:35 PM</td>
<td>Break (refreshments)</td>
<td>CSC Atrium</td>
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## Poster Presentations

9:00 AM – 3:00 PM

### Clark Student Center Atrium

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*Students will be at the posters at indicated times for evaluation. Outside those times students can come and go and be at their poster at any time for dissemination purposes.
Oral Presentations

Comanche Suites
Session 1A
9:00-10:40 a.m.

9:05-9:25 Adaobi Ezeodum
(O1) Literary Works and Postcolonial Nigeria
9:30-9:50 Kristen Johnson
(O2) Fort Hood Free Grazers: Central Texas Cattle Ranchers and the Role of Federal Government in the Economic Development of the Post-War American West
9:55-10:15 Melissa Whitwood and Nikki Bussue
(O3) Integrating Children’s Literature in Elementary Math Methods: Fostering Understandings and Connections
10:20-10:40 Luca Lalor
(O4) U.S. Foreign Direct Investment, Exchange Rate Regimes and Expectations in Emerging Economies

Kiowa
Session 1B
9:00-10:40 a.m.

9:05-9:25 Gerald Sampson
(O5) The Power of the ‘Pro Athlete’: An investigation into the Evolution of Basketball as Big Business in America
9:30-9:50 Meaghan Rose and Shamberia Thomas
(O6) Bacterial Endophytes in Seeds with High and Low Melatonin Content: Survival Implications
9:55-10:15 Sharon Peralta, John Krawietz, Jacob Virgin, Aaron McKenzie and Wayne Vincent
(O7) A Bevel Gear Based Quasi-Continuous Transmission
10:20-10:40 Connor Kirby and Cody Chancellor
(O8) Use of Hydrochloride acid (HCl) to Control pH Value for Superabsorbent Polymer Solutions
Comanche Suites  
11:00-12:35 a.m.

**Session 2A**

11:00-11:20  **Curtis Knobloch**  
(O9)  *Factors Driving Down Oil Prices: Implication for the North Texas Regional Economy*

11:25-11:45  **Cameron Harper, Ta’Les Russell, Brandi Reid, and Jose Sanchez**  
(O10)  *Self-control and Sustainable Behaviors*

11:50-12:10  **William R. Ash**  
(O11)  *Remittances Effect on Poverty in Developing Countries: The Human Capital Channel*

12:15-12:35  **William R. Ash**  
(O12)  *Remittances and Human Capital Impact on Inequality in Developing Countries*

Kiowa  
11:00-12:35 a.m.

**Session 2B**

11:00-11:20  **William Moore, Peter Lovelace, Nathan Galbraith, Adikarige Nethmal Perera, and Lewis Mombo**  
(O13)  *Vertical Drivetrain Transmission for a Wind Turbine*

11:25-11:45  **Chavindra Hatharasinghe, Andrew Krezekinski, Yaning Liu, and Kyle Poirot**  
(O14)  *Compact Fresh Water Generator Using Renewable Energy*

11:50-12:10  **Jn Claude Gustave, Bryce Tucker, Jennifer Sissel and Nanette Philip**  
(O15)  *Chain Based Planetary Automatic Transmission*

12:15-12:35  **Matthew Aaron**  
(O16)  *CUDA Simulations of Granular Flow*
Comanche Suites
Session 3A
1:30-3:30 p.m.

1:30-1:50  **Tomas Grejtak**
(O17)  *Monitoring and Improving a Combustion Chamber with Thermodynamics and Computational Fluid Dynamics: Another Step for Emission Reduction*

1:55-2:15  **Matthew Felix, Cecil Francis, Ayesha Madamawatta, and Matthew Murphy**
(O18)  *Enhanced Oil Recovery Using Microfluidic Porous Media Analog*

2:20-2:40  **Bodie Choate, Tim Young, Keyla Ahow, and Dhakshitha Weralavithana**
(O19)  *Robotics Flexible Manufacturing Cell*

2:45-3:05  **Clayton Brown, Yumeng Cheng, Joshua Frawley, and Kingsley Irish**
(O20)  *Design and Implementation of Electronic Sensors*

3:10-3:30  **Silvestre Barajas, Brandon Poirot, Carlo Santos, and Ty Healer**
(O21)  *Pneumatic Trainer Senior Design*

Kiowa
Session 3B
1:30-3:05 p.m.

1:30-1:50  **William Dinwiddie**
(O22)  *N-body Simulations of Dwarf Galaxies*

1:55-2:15  **Daniel Goodey, Donnie Hudnell, Austin Fidlar, Varuna Denawakage Don, and Ronell Pemberton**
(O23)  *A Pneumatic Dome Shaped Active Road Rumble*

2:20-2:40  **Tomas Grejtak and Latham Moody**
(O24)  *Failure and Leakage Analysis of Sucker-rod Pumps*

2:45-3:05  **Tomas Grejtak, Westin Gilbert, Daniel Dubose, and Erick Goytia**
(O25)  *Flow Loop Systems Involving Heat and Mass Transfer*
Poster Presentations
Atrium

Poster Session 1
9:00-10:30 a.m.

(P1) Jeff Snowden
*Meter Scale Cycles in the Geologic Record: Implications for Interpreting Ancient Sea Level Change*

(P2) Yuxiang Tang
*DDT Dechlorination Catalyzed by A Substituted Iron(III) Porphyrin*

(P3) Challena Pinckney
*Identifying Subsurface Granites of the Southern Oklahoma Aulacogen in the Arbuckle Mountains*

(P4) Mohamed Hussen Masaud
*Forecasting the Reservoir Performance Data of Oilfield in Libya by Using Decline Curve Analysis*

(P5) Qianying He and Yaning Liu
*Prevalence of Pathogenic Isolates in Migratory Birds and Transfer to Local Populations*

(P6) Jn Claude Gustave
*Slip-In Cartridge Valves vs. Conventional Spool Valves: A Comparison Study*

(P7) Kathryn Crouch
*Effect of Glycosylation on Cell Surface Hydrophobicity of the Opportunistic Fungal Pathogen Candida albicans*

(P8) Alicia Ward and Jonathan Henderson
*The Death of Ivan Ilyich and Other Stories*

Poster Session 2
11:00-12:30 p.m.

(P9) Huiluo Chen and Xitong Li
*Feedback Control of a Multi-DOF Robot using Bluetooth*

(P10) Kiran Chapagain
*Computational study of film boiling droplet motion on Micro- and Nano-scale ratchets*

(P11) Magen Brown
*Identifying Subsurface Granites of the Southern Oklahoma Aulacogen in the Wichita Mountains*

(P12) Michael Arthur Olaya and Sean Egloff
*Design and Development of an Atmospheric Satellite*

(P13) Seth Witherspoon
*Design of a Liquid Hydrogen Powered Stirling Engine*

(P14) Julia Brady, Alexis Gay, Andrea Mendoza-Lespron, and Madeline Parker
*An Examination of the Sexual Terror Scale v. Violence Against Women Index in Four Developing States: Cuba, Haiti, Honduras, and Venezuela*

(P15) Samantha Scott and Macy Miles
*Elementary Students Get A Bit Fit*

(P16) Kayla Fells
*Using Gaming Technology to Teach Math Facts to Elementary Students with Disabilities: An Exploratory Study*
(P17) **Kevin Barona**  
*Reflective Practices of Pre-service Teachers Using Video Analysis*

(P18) **Adam Likeness and Aubrey Kass**  
*Turning up the heat on volunteer motivation: A study examining what makes America’s most famous triple digit weather bike race so attractive for its’ volunteers*

(P19) **Ktee Erwin, Macey Fields, Ana Guijosa, and Carisa Roscoe, and Lacey Moore**  
*Stress Coping Mechanisms Among Homeless Women*

(P20) **Jaisy Garcia, Anthony Adams, Julie Rueda, Peace Anwasi, and Sydney Flynn**  
*Religious Orientation of Church Attendees and Their Coping with Trauma*

(P21) **Diann Garcia, Garcia Rosalinda, Victoria Mullins, Wendy Moore, and Wesley Stringer**  
*Effectiveness of Faith-based Rehabilitation Program: Perceptions of Addicts*

(P22) **Charles Staats, Kelsey Denne, Isaac Esquivel, Kim Jones, and Kathryn Miser**  
*Stress Management Among Undergraduate Social Work Students*

(P23) **Cailli Perry, Breanna Mosley, Crystal SanMiguel, Dana Bonfy, and Mary Vella**  
*Stress Among University International Students*

(P24) **Mason Cain, Deanna Parker, Carly Smith, and Kendell Stewart**  
*Vaping Your Life Away*