2017 Celebration of Scholarship
Undergraduate Student Podium Presentations
Thursday April 27, 9:00AM – 5:00PM
Clark Student Center

Session I 9:00 – 10:10AM  Comanche Suites

**Designing a community park for Wichita Falls: psychological, biological and economic considerations.**
Kadesha Treco
*Faculty Mentor: Dr. Margaret Brown Marsden*
Prothro-Yeager College of Humanities & Social Sciences, Department of Psychology
College of Science & Mathematics, Department of Biology

**Ecology as Rhetorical Marketing Tool: The Pokémon GO Phenomenon**
Kolton Bellah
*Faculty Mentor: Dr. Sally Henschel*
Prothro-Yeager College of Humanities & Social Sciences, Department of English, Humanities, and Philosophy

**Session I 9:00 – 10:10AM  Kiowa Room**

**Should you delay the graduate school? Game-theoretical approach**
Junlin Li
*Faculty Mentor: Dr. Agim Kukeli*
Dillard College of Business Administration, Department of Economics, Finance, and General Business

**Teaching Students to Write: The Challenges of Writing 101**
Robin Reid
*Faculty Mentor: Dr. Mitzi Lewis*
Fain College of Fine Arts, Department of Mass Communications

**Exploring Student's Perceived Benefits of Learning Communities...Going Deeper.**
Laura Sorge and Francine Baron
*Faculty Mentor: Dr. Kym Acuña*
West College of Education, Department of Curriculum and Learning

**Session I 9:00 – 10:10AM  Wichita I & II**

**Know Thine Enemy: The Tobacco Plant Recognizes and Reacts Differently to the Tobacco Hornworm than to artificial leaf tissue removal.**
Rupert Sterling
*Faculty Mentor: Dr. Charles M. Watson*
College of Science & Mathematics, Department of Biology

**Investigating the Star Formation Histories of Dwarf Spiral Galaxies**
Sachithra Weerasooriya
*Faculty Mentor: Dr. Jacqueline Dunn*
College of Science & Mathematics, Department of Chemistry and Physics
The Effect of Subinhibitory Concentrations of Tetracycline on Non-Plasid-Based Erythromycin Resistance in Escherichia coli
Bethany Russell
Faculty Mentors: Dr. James Masuoka, Dr. Jon Scales
College of Science & Mathematics, Department of Biology

Session II  10:20 – 11:30AM  Kiowa Room
Two hands no tie down pneumatic drilling station
Daniel Carroll; Qudus Sanni; Morgan Herrera; Jared Sharp; Joshua Otterpohl; Mouhammed Balghonaim
Faculty Mentor: Dr. Jan Brink
College of Science & Mathematics, McCoy School of Engineering

Flexible Drilling and Center Drilling Palletizing Work cell
Adam Culley; Fernando Dutra, Tonderai Madamba, Daniel Arrington and Huiluo Chen
Faculty Mentor: Dr. Jan Brink
College of Science & Mathematics, McCoy School of Engineering

Excited Pendulum with Feedback Control (EPFC)
Craig Stevens, Alwin George, Kiran Chapagain, Indeesha Wickramarachchi, Tharusha Wanigasekera, Jose Martinez
Faculty Mentor: Dr. Yu Guo
College of Science & Mathematics, McCoy School of Engineering

Session II  10:20 – 11:30AM  Wichita I&II
Methods of generating alpha from FX trading using technical analysis: Evidence from algorithmic simulations.
Luca Lalor
Faculty Mentors: Dr Jeffrey Hood, Dr Qian Li
Dillard College of Business Administration, Department of Finance
College of Science & Mathematics, Department of Computer Science

Benford’s Law and its Application in Financial Statements to Detect Fraud
Hettiyadura Shehan Karunaratne
Faculty Mentor: Dr. Agim Kukeli
Dillard College of Business Administration, Department of Accounting

Benford’s Law Application: Case of Elections in Sri Lanka
Hettiyadura Shehan Karunaratne
Faculty Mentor: Dr. Agim Kukeli
Dillard College of Business Administration, Department of Accounting

Session III  1:00 – 2:10PM  Comanche Suites
Empirical Investigation of Economic Growth in North African Countries: The Effect of Pre- and Post- Arab Spring
Karema Sallam
Faculty Mentor: Dr. Agim Kukeli
Dillard College of Business Administration, Department of Management
Remittances and economic growth in developing countries: The impact of human capital
Simon Ospina
Faculty Mentor: Dr. Pablo A. Garcia-Fuentes
Dillard College of Business Administration, Department of Economics

Oxen as Draft Animals in the Agricultural System of Nicaragua
Rodrigo Mireles, Conney Vargas
Faculty Mentors: Dr. Pablo A. Garcia-Fuentes, Dr. Yoshi Fukasawa, Mr. Edgar A. Martinez-Rodriguez
Dillard College of Business Administration, Department of Marketing

Session III 1:00 – 2:10PM Kiowa Room
Design and Implementation of a Convective Heat Transfer Coefficient Measurement System
Janith Ambewela, Timothy Biggs, Xitong Li, Corbin Whan, Paul Yacho
Faculty Mentors: Dr. Jeong Tae Ok, Dr. Sheldon Wang
College of Science & Mathematics, McCoy School of Engineering

Viscosity Measurements for Various Mixed Fluids Used to Enhance Oil Recovery
Denzel Kinyua, Reuben Denwe, Cody Chancellor
Faculty Mentor: Dr. Mahmoud Elsharafi
College of Science & Mathematics, McCoy School of Engineering

Heat Transfer Technology to Convert Plastic Trash to Oil Fuel
Cody Chancellor, Reuben Denwe, Cameron Duckworth, Zhiqi Mao, Moiz Tatla, Okan Lafleur
Faculty Mentors: Dr. Mahmoud Elsharafi, Dr. Salim Azzouz, Dr. Sheldon Wang
College of Science & Mathematics, McCoy School of Engineering

Session III 1:00 – 2:10PM Wichita I&II
Researching Theatrical Constellations: Dramaturgy and Audience Response
Kalli Root
Faculty Mentor: Dr. Karen M. Dabney
Fain College of Fine Arts, Department of Theatre

“BEAD no R” Composition Project
Nahye Byun, Tyler Lasseter, Katie Pendergrass
Faculty Mentor: Dr. Ruth Morrow
Fain College of Fine Arts, Department of Music

Creating a Guitar Curriculum Based on Contemporary Worship Music
Lee Ginnings
Faculty Mentor: Dr. Susan Harvey
Fain College of Fine Arts, Department of Music
Session IV  2:20 – 3:30PM  Comanche Suites

**The Origin of Suicide Terror: The Influence of Country Origin on Suicide Terrorists.**
Luke Allen  
*Faculty Mentor: Dr. Steve Garrison*  
Prothro-Yeager College of Humanities & Social Sciences, Department of Political Science

**Are Conspicuous Consumptions All That Bad? An Empirical Study of Conspicuous consumers: Would they be more attached to their brands compared to conspicuous consumers?**
Regan Duleba, Hayley Dambold, Caroline Wieck, Alexandria Klimkoski  
*Faculty Mentor: Dr. Thuy D. Nguyen*  
Dillard College of Business Administration, Department of Marketing

**A Study of the Factors Triggering the Idea of Sustainability: The German and the American Experiences**
Victoria Fruechtli, Michael Sweeting, Chappell Whyms Jr., Gayal Hewakuruppu  
*Faculty Mentors: Dr. Yvonne Franke, Dr. Salim Azzouz*  
Prothro-Yeager College of Humanities & Social Sciences, Department of Foreign Language  
College of Science & Mathematics, McCoy School of Engineering

Session IV  2:20 – 3:30PM  Kiowa Room

**The Economic Impact of Midwestern State University on the Local Region**
Nemanja Krtolica and Hezekia Agbo  
*Faculty Mentors: Dr. John Martinez, Dr. Robert Forrester*  
Dillard College of Business Administration, Department of Economics and Finance

**Hotter than Hell Hundred study: Phase 2: Quantitative**
Matthew D. Matlock and Wadzanai Dzvurumi  
*Faculty Mentors: Dr. Niyati Kataria, Dr. Jeff Stambaugh*  
Dillard College of Business Administration, Department of Management and Marketing

**The Challenge of Attracting and Retaining Member-Volunteers at YPWF**
Careisha Whyte, Jerrod Tofte and Wadzanai Dzvurumi  
*Faculty Mentors: Dr. Niyati Kataria, Dr. Jeff Stambaugh, Mr. Newman Wong*  
Dillard College of Business Administration, Department of Management and Marketing  
Prothro-Yeager College of Humanities & Social Sciences, Department of Sociology

Session IV  2:20 – 3:30PM  Wichita I&II

**A Planetary Gear Based Control System for a Wind Turbine**
David Baer, Eduardo Garcia, Lance Henry, Chanuka Perera, Delton Shed, Travis Taylor  
*Faculty Mentor: Dr. Salim Azzouz*  
College of Science & Mathematics, McCoy School of Engineering

**Multi-Chain Continuously Variable Transmission for Wind Turbine**
Abdullah Albakhorji, Enaho Atamenwan, Garrett Clampitt, Jaylen Love, Hannah Selzer, Matthew Stanley  
*Faculty Mentor: Dr. Salim Azzouz*  
College of Science & Mathematics, McCoy School of Engineering
Development of Muon Tomography Imaging System
Romeo Botelua, Charles Trevor Criddle, Xin Hu, Chase Meyer, Michael A.Olaya
Faculty Mentor: Dr. Yu Guo
College of Science & Mathematics, McCoy School of Engineering

Session V  3:40 – 4:50PM  Kiowa Room
Hedging Risk in a Student-Managed Investment Fund: A Pedagogical Analysis
Hezekiah Agbo
Faculty Mentors: Dr. John Martinez, Dr. Robert Forrester
Dillard College of Business Administration, Department of Economics and Finance

United States Health Care System
Danielle Crone, Corey French, and Blake Huffstutler
Faculty Mentor: Dr. John Martinez
Dillard College of Business Administration, Department of Economics

Session V  3:40 – 4:50PM  Wichita I&II
Shadow Banking as a Cause of Fragility in the Financial System During the Recession of 2008-2009
Stephen Johnson
Faculty Mentor: Dr. John Martinez
Dillard College of Business Administration, Department of Economics and Finance

The Effect of Operating Environment on the Performance Characteristics of Single-Bond Occupational Credit Unions: A Post-2008 Recessionary Analysis
Evan Knobloch
Faculty Mentors: Dr. John Martinez, Dr. Robert Forrester
Dillard College of Business Administration, Department of Economics and Finance
Poster 1: Enhancing the student learning experience through an intuitive Learning Management System
Rojitha Goonesekere
Faculty Mentors: Dr. Yu Guo, Dr. Bingyang Wei
College of Science & Mathematics, McCoy School of Engineering

Poster 2: Resting Metabolic Rate of Squamate Reptiles: Patterns of Evolution and Variation
Ciera Wolinski
Faculty Mentor: Dr. Charles M. Watson
College of Science & Mathematics, Department of Biology

Poster 3: Inhibition of Growth of the Opportunistic Fungal Pathogen Candida albicans by Indole, a Product of Tryptophan Metabolism
Alyssa Bell
Faculty Mentor: Dr. James Masuoka
College of Science & Mathematics, Department of Biology

Poster 4: Fungal Endophytes of Native North Texas Plants
Chiara Del Vecchio, Dorcas Matuwana
Faculty Mentor: Dr. James Masuoka
College of Science & Mathematics, Department of Biology

Poster 5: Effect of Growth Temperature on Cell Surface Hydrophobicity of Candida albicans
Melissa Rose
Faculty Mentor: Dr. James Masuoka
College of Science & Mathematics, Department of Biology

Poster 6: Bacterial Endophytic Diversity in Relation to Seed Melatonin Content: Metabolic Implications
Meaghan Rose, Salvatore Capotosto and Mutandwa Machemedze
Faculty Mentors: Dr. Magaly-Rincón-Zachary, Dr. James Masuoka
College of Science & Mathematics, Department of Biology

Poster 7: Optimizing filtration for Aquaponics Systems
Sean Aleman
Faculty Mentors: Dr. Dale McDonald, Dr. Michael Shipley
College of Science & Mathematics, McCoy School of Engineering
Poster 8: Pool Boiling on Microscale Ratchets
Kiran Chapagain, Corbin Matamoros
Faculty Mentors: Dr. Jeong Tae Ok, Dr. Mahmoud Elsharafi, Dr. Yu Guo, Dr. Sheldon Wang
College of Science & Mathematics, McCoy School of Engineering

Poster 9: Dynamic Contact Angle Measurements
Jomarie Leblanc, Chiedza Tokonyai, Adanna Okoye
Faculty Mentors: Dr. Mahmoud Elsharafi, Dr. Jeong Tae Ok
College of Science & Mathematics, McCoy School of Engineering

Poster 10: Large Deflection Non-linear Coefficients of a Free Vibrating Laminated Composite Shallow Shell Panel
Kyle Gordon, Suman Bhandari, Israel Ezeodum
Faculty Mentor: Dr. Salim Azzouz
College of Science & Mathematics, McCoy School of Engineering

Poster 11: Sodium and Chlorine Ions Concentration Mapping in Saltwater
Chanuka Perera and Suman Bhandari
Faculty Mentors: Dr. Salim Azzouz, Dr. Jianguo Shao, Mr. Nathaniel Blank
College of Science & Mathematics, McCoy School of Engineering

Poster 12: Intelligent Robotics using Computer Vision
Xitong Li, HuiLuo Chen, Mpathi Nzima
Faculty Mentor: Dr. Yu Guo
College of Science & Mathematics, McCoy School of Engineering

Poster 13: Auto piloting a drone using computer vision
Zeltzin Reyes Trejo, Rojitha Goonesekere, Don Wijesinghe
Faculty Mentor: Dr. Yu Guo
College of Science & Mathematics, McCoy School of Engineering

Poster 14: MSU Smart Parking
Abdullah Albakhrurji, Enaho Atamenwan, Paul Yacho
Faculty Mentor: Dr. Yu Guo
College of Science & Mathematics, McCoy School of Engineering

Poster 15: Mineral and Textural Assessment of the Quanah Margin Granites in the Wichita Mountains, Oklahoma
Alexandria Weiskircher
Faculty Mentor: Dr. Jonathan D. Price
College of Science & Mathematics, Kimbell School of Geosciences

Poster 16: Petrological Analysis of the Quanah Dikes, Wichita Mountains, Oklahoma
Amber Quevy
Faculty Mentor: Dr. Jonathan Price
College of Science & Mathematics, Kimbell School of Geosciences
Poster 17: 2-D to 3-D Analysis of Mineral Hopper Structure Using a Bismuth Metal Analog
Jared Steger
Faculty Mentor: Dr. Jonathan Price
College of Science & Mathematics, Kimbell School of Geosciences

Poster 18: Electron Positron Scattering
Michael Olaya, Michael Sweeting
Faculty Mentor: Dr. Sharma
College of Science & Mathematics, Department of Physics

Poster 19: Chinese-Cuban Identity: An Exploratory Study
Weiwei Chen and Randy Lopez
Faculty Mentors: Dr. Beverly Stiles, Dr. Claudia Montoya, Mr. Newman Wong
Dillard College of Business Administration, Department of Accounting
College of Science & Mathematics, Department of Biology

Poster 20: Acceptance of Legalized Assisted Suicide: Does Terminology Matter?
Careisha Whyte and Shirley Hazel
Faculty Mentors: Dr. Beverly Stiles, Mr. Newman Wong
Dillard College of Business Administration, Department of Accounting
Prothro-Yeager College of Humanities & Social Sciences, Department of Sociology

Poster 21: Evaluating the Ethical Awareness of Accounting Students in the Dillard College of Business Administration
Careisha Whyte
Faculty Mentor: Dr. Ronald Young
Dillard College of Business Administration, Department of Economics and Accounting

Poster 22: Coffee Roastery in Wichita Falls: a feasibility study
Mason Wilson
Faculty Mentor: Dr. Niyati Kataria
Dillard College of Business Administration, Department of Management and Marketing

Poster 23: “isms” at work and tactics to deal with them: a literature review
Emily Shackelford, Kelcia Righton, Shayla Owens
Faculty Mentors: Dr. Beverly Stiles, Dr. Niyati Kataria, Mr. Newman Wong
Dillard College of Business Administration, Department of Management and Marketing;
Prothro-Yeager College of Humanities & Social Sciences, Department of Sociology

Poster 24: The Social Media Rhetoric of Chess Woman Candidate Master Claudia Munoz
Faith Munoz
Faculty Mentor: Dr. Sally Henschel
Prothro-Yeager College of Humanities & Social Sciences, Department of English, Humanities, and Philosophy
Poster 25: Sexual Knowledge and Attitudes of Hooking Up: Does Being Sexually Active Make a Difference?
Elyssa Henderson and Catherine Stepniak
*Faculty Mentors: Dr. Beverly L. Stiles, Mr. Newman Wong*
Prothro-Yeager College of Humanities & Social Sciences, Department of Sociology

Poster 26: The Impact of Viewing Porn on the Endorsement of Traditional Gender Norms and Sexual Scripts
Zachary Roberts
*Faculty Mentors: Dr. Beverly L. Stiles, Mr. Newman Wong*
Prothro-Yeager College of Humanities & Social Sciences, Department of Sociology

Poster 27: College Students' Accounts of How They Learned about Sexuality: A Qualitative Analysis
Alexis Caldwell, Sarah Kennedy
*Faculty Mentor: Dr. Robert E. Clark*
Prothro-Yeager College of Humanities & Social Sciences, Department of Sociology

Poster 28: Developing culturally responsive pre-service teachers with online literature circles
Ana Dougherty
*Faculty Mentors: Dr. Emily Reeves, Dr. Daphney L. Curry, Dr. C. Janise McIntyre*
West College of Education, Department of Curriculum and Learning

Poster 29: Making Science, Technology, Engineering, and Mathematics (STEM) Attractive to Females
Chenai Sukume and Nchetachukwu Constance Anih
*Faculty Mentor: Dr. Denise Simmons*
West College of Education, Department of Curriculum and Learning; College of Science & Mathematics, McCoy School of Engineering

Poster 30: The Effect of STEAM Units on Pre-service Teachers' Self-efficacy
Tamra Woods and Jocelyn Brown
*Faculty Mentor: Dr. Dittika Gupta*
West College of Education, Department of Curriculum and Learning; College of Science & Mathematics, McCoy School of Engineering

Poster 31: Impact of Undergraduate Research Experience on MISL
Macy Miles
*Faculty Mentors: Dr. Angela Cartwright, Dr. Janise McIntyre, Dr. Stacia Miller*
West College of Education, Department of Kinesiology

Poster 32: An Interdisciplinary Study Exploring Undergraduate Students’ Perspectives of EBP in the Health and Human Services
Lindsey Morris, Janelle Muckle
*Faculty Mentors: Dr. Kathleen Williamson, Dr. Jennifer Anderson, Dr. Satya Ayinagadda*
Gunn College of Health Sciences & Human Services, Department of Respiratory Care, Wilson School of Nursing
Poster 33: Thermal fatigue analyses of composites
Baskaran Ravi Prasanth, Sarinda De Mel, Chanuka Perera
Faculty Mentor: Dr. Sheldon Wang
College of Science & Mathematics, McCoy School of Engineering

Poster 34: Analyzing and Improving the WFCC (Wichita Fall Country Club) Indoor Tennis HVAC (heating ventilation air conditioning) Facilities.
Suman Bhandari, Israel Ezeodum, Miranda Schroeder, William Rittenhouse, Dylan Hooper
Faculty Mentor: Dr. Sheldon Wang
College of Science & Mathematics, McCoy School of Engineering

Poster 35: Modeling and Testing for Slippage of Sucker-rod Pumps
Connor Kirby, Kyle Gordon, Ravi Baskaran, Martin Moore, Mark Yeon
Faculty Mentor: Dr. Sheldon Wang
College of Science & Mathematics, McCoy School of Engineering

Poster 36: Active Damping Using Pistons with Smart Fluid
Tharusha Wanigasekera, Janith Amebewela
Faculty Mentor: Dr. Sheldon Wang
College of Science & Mathematics, McCoy School of Engineering

Special Exhibit: Seeing Depression with the Naked Eye
Kenneth Zackery Shanks
Faculty Mentors: Ms. Catherine Prose, Mr. Gary Goldberg
Fain College of Fine Arts, Department of Art