

K-State Graduate Research, Arts, and Discovery (GRAD) Forum award winners

Wednesday, March 30, 2016

The following students were selected as the top presenters in the various presentation sessions of the 21st annual K-State Graduate Research Arts, and Discovery (K-GRAD) Forum. For each presentation session listed below, the first place winner received a \$500 scholarship award, and his or her name was engraved on a perpetual plaque to be displayed in the student's respective department until the next year's K-GRAD Forum. Second and third place winners received scholarships in the amounts of \$250 and \$125, respectively. Unless otherwise stated, awards were presented by the Graduate Student Council with funds provided by the Kansas State University President and Provost offices.

Agricultural Sciences Oral Session 1

Place	Name	Degree Program	Faculty Advisor	Presentation Title
1 st	Ryan Schmid	Entomology, PhD	Brian McCornack	Assessment of Hessian Fly, <i>Mayetiola Destructor</i> (Diptera: Cecidomyiidae), Attraction to Visual and Olfactory Cues in Y-tube Olfactometers
2 nd	Kelsey Phelps	Animal Science, PhD	John Gonzalez	Effects of Feeding Microalgae Meal (<i>Schizochytrium Limacinum</i> CCAP 4087/2) to Beef Heifers on Fresh Meat Quality
3 rd	Kassandra McKillip	Animal Science, MS	Travis O'Quinn	Enhancement Effects on Consumer Acceptability of Beef Strip Loin Steaks

Agricultural Sciences Oral Session 2

Place	Name	Degree Program	Faculty Advisor	Presentation Title
1 st	Jacob Alsdurf	Biology, PhD	Loretta Johnson	Phenotypic Variation of the Dominant Prairie Grass <i>Andropogon Gerardii</i> and Association with Climate Across Midwest Grasslands Climate Gradient
2 nd	Karthik Putta	Agronomy, MS	Mithila Jugulam	Physical Mapping of EPSPS Gene Copies in Glyphosate Resistant Italian Ryegrass Populations

Biological Sciences Oral Session

Place	Name	Degree Program	Faculty Advisor	Presentation Title
1 st	Tuyen Nguyen	Chemistry, PhD	Santosh Aryal	Bone Micro-environment Targeted Magnetic Nanomedicine
2 nd	Bettina Jancke	Entomology, PhD	Jeremy Marshall	Genetics of the Spermatophore Coat Formation in the Ground Cricket (<i>Allonemobius Socius</i>)
3 rd	Catherine Stewart	Plant Pathology, PhD	Anna Whitfield	Validation and Characterization of Insect Vector Proteins that Interact with Tomato Spotted Wilt Virus

Engineering, Math, and Physical Sciences Oral Session 1

Place	Name	Degree Program	Faculty Advisor	Presentation Title
1 st	Jacob Lamb	Electrical Engineering, PhD	Behrooz Mirafzal	An Adaptive Sinusoidal Pulse Width Modulation Technique for Cascaded Multilevel Converters
2 nd	Kari Bigham	Biological and Agricultural Engineering, MS	Trisha Moore	Repeatability and Sensitivity Analysis of the Bancs Model Developed to Predict Annual Streambank Erosion Rates
3 rd	Syeda Rubiayat Aziz	Civil Engineering, PhD	Sunanda Dissanayake	Development of New Safety Performance Functions for Rural Four-lane Divided Segments in Kansas

Engineering, Math, and Physical Sciences Oral Session 2

Place	Name	Degree Program	Faculty Advisor	Presentation Title
1 st	Raiya Ebini	Physics, PhD	Chris Sorensen	Kinetics of Fractal Aggregate Sol to Gel Transition
2 nd	Colleen Gura	Geology, MS	Saugata Datta	Comparison of Geochemistry Generated by Kimberlite Weathering vs. Limestone Weathering in Kansas
3 rd	Michelle Berube	Geology, MS	Saugata Datta	Geochemical Controls on Arsenic and Manganese Release into Groundwaters from Sediments: In Relation to Natural Reactive Barrier

Social Sciences, Humanities, and Education Oral Session 1

Place	Name	Degree Program	Faculty Advisor	Presentation Title
1 st	Miranda Klugesherz	Communication Studies, MA	Natalie Pennington	Imposter Syndrome: Social Identity Construction of First-Generation Students at a Four-Year University
2 nd	Katrina Hanna	Communication Studies, MA	Soo-Hye Han	"Shut it down!": Negotiating Post-feminist Work/Life in "30 Rock"

Social Sciences, Humanities, and Education Oral Session 2

Place	Name	Degree Program	Faculty Advisor	Presentation Title
1 st	Conor O'Dea	Psychology, PhD	Donald Saucier	What if they Think I'm Racist? Factors that Affect Decisions to Discuss Diversity Initiatives
2 nd	Amanda Fairbanks	Counseling and Student Development, PhD	Linda Thurston	Relationship Factors Influencing Doctoral Student Retention and Success: An Exploratory Study of Faculty Advisor and Doctoral Student Perceptions

3 rd	Stuart Miller	Psychology, PhD	Donald Saucier	Perceptions of Racism in the Context of Police Shootings: Misses or False-alarms in Observers' Attributions to Prejudice
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Social Sciences, Humanities, and Education Oral Session 3

Place	Name	Degree Program	Faculty Advisor	Presentation Title
1 st	Jules Yimga	Economics, PhD	Philip Gayle	Modelling the Impact of Airline Product Quality on Airlines' and Passengers' Choice Behavior
2 nd	Krishna Pokharel	Agricultural Economics, PhD	Allen Featherstone	A Nonparametric Approach to Estimate Multiproduct and Product-specific Scale and Scope Economies for Agricultural Cooperatives

Interdisciplinary Research Oral Session

Half of the first place award for this session was funded by the K-State chapter of Sigma Xi, the Scientific Research Association.

Place	Name	Department	Faculty Advisor	Presentation Title
1 st	Pabodha Galgamuwe	Horticulture, PhD	Charles Barden	Spatio-temporal Dynamics of Juniper Encroachment in Oak Woodlands
2 nd	Yulia Burakova	Chemical Engineering, PhD	John Schlup	The Impact of Oil Composition on Emulsion Formation and Stability
3 rd	Nandana Weliweriya	Physics, PhD	Eleanor Sayre	Students' Written Solutions Reflect Varied Solution Schemata

Agricultural Sciences Poster Session 1

Place	Name	Degree Program	Faculty Advisor	Presentation Title
1 st	Garrett McCoy	Animal Science, MS	Terry Houser	Impact of Iodine Value on Fresh Pork Belly Characteristics and Bacon Quality
2 nd	Yanting Shen	Human Nutrition, PhD	Wei-qun Wang	Identification and Quantification of Carotenoids in Various Phenotypic Sorghum Accessions

Agricultural Sciences Poster Session 2

Place	Name	Degree Program	Faculty Advisor	Presentation Title
1 st	Junjun Ou	Agronomy, PhD	Mithila Jugulam	Uptake, Translocation and Metabolism of Dicamba in Dicamba-Resistant Kochia From Kansas
2 nd	Matthew Gallart	Biology, MS	Loretta Johnson	Divergence in Phenotypes and Genomes among Ecotypes of a Widespread Grass, Big Bluestem, across a Great Plains' Climate Gradient

Biological Sciences Poster Session

Place	Name	Degree Program	Faculty Advisor	Presentation Title
1 st	Trenton Colburn	Kinesiology, MS	Timothy Musch	Nitrite Enhances Microvascular Oxygen Pressure Dynamics in Healthy Rat Skeletal Muscle
2 nd	Kelsey Casey	Human Nutrition, MS	Sara Rosenkranz	Change in Intake of CVD-related Food Components Associated with an Intervention to Reduce Sedentary Time

Engineering, Math, and Physical Sciences Poster Session 1

Place	Name	Degree Program	Faculty Advisor	Presentation Title
1 st	Weston Koehn	Civil Engineering, MS	Stacey Kulesza	Hydrogeologic Characterization of Arkansas River Alluvial Deposits Using Electrical Resistivity Imaging
2 nd	Balram Kaderiya	Physics, PhD	Artem Rudenko	Laser-induced Dissociation Dynamics and Vibrational Motion in Diiodomethane

Engineering, Math, and Physical Sciences Poster Session 2

Place	Name	Degree Program	Faculty Advisor	Presentation Title
1 st	Rund Al-Masri	Civil Engineering, PhD	Hayder Rasheed	Analytical and Finite Element Buckling solution of Simply Supported Laminated Composite Columns and Wide Plates Under Axial Compressions
2 nd	Akanksha Singh	Electrical Engineering, PhD	Behrooz Mirafzal	A New Class of Direct-drive wind Turbines
3 rd	Kimberly Plevniak	Biological and Agricultural Engineering, MS		3D Printed Point-of-Care Device for Anemia Diagnosis

Social Sciences, Humanities, and Education Poster Session

Place	Name	Degree Program	Faculty Advisor	Presentation Title
1 st	Brittany Hollerbach	Kinesiology, MS	Katie Heinrich	Injury Related Issues among Female Firefighters: A Qualitative Study
2 nd	Jessica High	Human Ecology, PhD	Briana Nelson Goff	Hope, Coping and Relationship Quality in Mothers of Children with Down Syndrome
3 rd	Lauren Oseland	Human Ecology, PhD	Briana Nelson Goff	An Exploration of PTSD as a Mediator between Trauma Exposure and Attachment Behaviors in Married Adults

Interdisciplinary Research Poster Session

Place	Name	Degree Program	Faculty Advisor	Presentation Title
1 st	Laura Soto Sierra	Biological and Agricultural Engineering, MS	Lisa Wilken	Novel Application of Autolytic Enzyme: Implication on Pretreatment Strategies of Bioproduct Extraction from Microalgae
2 nd	Sam Emerson	Human Nutrition, PhD	Sara Rosenkranz	Size and Timing Matter: Differential Triglyceride Responses to Three Meal Conditions
3 rd	Yue Yuan	Apparel and Textiles, MS	Jooyoun Kim	Morphology-driven repellent Nanowebs