

K-State Research Forum award winners
Friday, April 20, 2011

The following students were selected as the top presenters in the various presentation sessions of the 16th annual K-State Research Forum (KRF). For each presentation session listed below, the first place winner received a \$100 gift card to the K-State Student Union, and his or her name is engraved on a perpetual plaque to be displayed in the student's respective department until the next year's K-State Research Forum. Second and third place winners received gift cards to the K-State Student Union in the amounts of \$75 and \$50, respectively.

Undergraduate Oral Session

Place	Name	Department	Faculty Advisor	Presentation Title
1 st	Paige Johnson	Kinesiology	Elizabeth Fallon	THE ROLE OF BODY IMAGE ON PHYSICAL ACTIVITY INITIATION AND MAINTENANCE
2 nd	Garret Seiler	Biology	Masaaki Tamura	IDENTIFICATION OF MOLECULAR MECHANISMS OF PKC/C1B DOMAIN PEPTIDE-INDUCED GROWTH SUPPRESSION OF HUMAN COLON CANCER IN VITRO AND IN VIVO
3 rd	Ryan Fronk	Mechanical & Nuclear Engineering	Douglas McGregor	HIGH EFFICIENCY DUAL-INTEGRATED MICROSTRUCTURED SEMICONDUCTOR NEUTRON DETECTOR

Agricultural Sciences Oral Session

Place	Name	Department	Faculty Advisor	Presentation Title
1 st	Alysha Soper	Entomology	Brian McCornack	MULTIPLE SPECIES THRESHOLD RECOMMENDATIONS IN SORGHUM - IS A ONE-MODEL-FITS-ALL STRATEGY THE BEST APPROACH?
2 nd	Jason Fewell	Agricultural Economics	Jason Bergtold	KANSAS CROP ACREAGE SHIFTS DUE TO INCREASED BIOENERGY CROP DEMAND
3 rd	Kalaiyarasi Pidaran	Agronomy	Robert Aiken	PLANTING GEOMETRY EFFECTS ON SORGHUM PRODUCTIVITY IN WATER LIMITING CONDITIONS

Biological Sciences Oral Session

Place	Name	Department	Faculty Advisor	Presentation Title
1 st	Vijayalakshmi Iyer	Biology	Lynn Hancock	ALTERNATE SIGMA FACTOR (RPN) PROMOTES EXTRACELLULAR DNA (EDNA) INDEPENDENT BIOFILM FORMATION IN ENTEROCOCCUS FAECALIS
2 nd	Alex Acheampong	Human Nutrition	Brian Lindshield	5 α -REDUCTASE INHIBITION TO DECREASE PROSTATE TUMOR GROWTH
3 rd	Xin Zhu	Biology	Susan Brown	GENETIC ANALYSIS OF SEGMENTATION IN THE RED FLOUR BEETLE, TRIBOLIUM

Engineering, Math, and Physical Sciences Oral Session

Place	Name	Department	Faculty Advisor	Presentation Title
1 st	Ayomi Perera	Chemistry	Stefan Bossman	PURIFICATION AND ANALYTICAL ASSESSMENT OF THE MYCOBACTERIAL PORIN MSPA AND INVESTIGATION OF ITS CHANNEL ACTIVITY AND POTENTIAL USE FOR A PROTEIN NANO SOLAR CELL
2 nd	Arka Chattopadhyay	Mechanical & Nuclear Engineering	Kevin Lease	ELASTIC BUCKLING BEHAVIOR OF PLATES AND TUBULAR STRUCTURES
3 rd	Neha Dhiman	Chemical Engineering	Mary Rezac	MAKING A BIOREFINERY ECONOMICALLY VIABLE: AN APPROACH FOR EFFICIENT CONVERSION OF CARBOHYDRATES TO VALUE ADDED PRODUCTS

Social Sciences, Humanities, and Education Oral Session

Place	Name	Department	Faculty Advisor	Presentation Title
1 st	Amanda Morales	Curriculum & Instruction	Gail Shroyer	"GANAS": THE POWER AND POTENTIAL IN DEVELOPING LATINA ELL TEACHERS FOR RACIAL UPLIFT
2 nd	Cosette Armstrong	Apparel, Textiles, & Interior Design	Melody LeHew	WALKING THE GREEN MILE: A JOURNEY IN THE INTEGRATION OF SUSTAINABILITY IN APPAREL AND TEXTILES EDUCATION
3 rd	Staci Horton	Music	Jana Fallin	EFFECTS OF USING DIGITAL STORYTELLING WITH ELEMENTARY STUDENTS

Poster Session

Place	Name	Department	Faculty Advisor	Presentation Title
1 st	Adrian Madsen	Physics	Sanjay Rebello	COMPARING EXPERT AND NOVICE EYE MOVEMENTS WHILE SOLVING PHYSICS PROBLEMS
2 nd	Kristen Van Dusen	Architecture	Susanne Siepl-Coates	THE BUILT ENVIRONMENT AS A COGNITIVE MAPPING DEVICE FOR AUTISTIC INDIVIDUALS
3 rd	Rachel Manspeaker	Mathematics	Andrew Bennett	USING DATA-MINING TO CLASSIFY STUDENT BEHAVIORS