2015 Oklahoma State Science & Engineering Fair
Division I - Category Winners

Biochemistry, Medicine and Health Sciences

1st Place
Chase Antonacci 12th grader from Cascia Hall Preparatory School
Evaluating the Viability of Multiple Carcinogenic Cell Lines to Novel Chemotherapeutic TU100 with the Effects of Ascorbate on ROS Generation: A second year study

2nd Place
Breanna Nightengale 12th grader from NORTHWEST TECHNOLOGY CENTER
All shades are not created equal-testing ultraviolet resistance of sunglasses.

3rd Place
Clayton McFarland 10th grader from Bartlesville Mid-High
Alzheimer's; Bigger is Better

Physical Sciences

1st Place
Alexia Benson 10th grader from Grove High School
Sarcophaga bullata, The key witness for the medical examiner: A forensic entomology and toxicology study on the accumulation of a known date rape drug of ketamine when exposed to Sarcophaga bullata larvae

2nd Place
Lynneah McCarrell 11th grader from Moore High School
Analysis of Hexavalent Chromium Speciation with the Addition of Chlorine and Trivalent Chromium and the Comparison of E. Coli removal: A 2nd Year Study in the City of Norman

3rd Place
Daniel Meszaros 10th grader from Bartlesville Mid-High School
Warm and Quiet II

Earth and Space Sciences

1st Place
Shani Kim 11th grader from Southmoore Highschool
The Solution to Global Warming: Diatom Proliferation Through Iron Therapy

2nd Place
Rosalinda Espinosa 11th grader from Dove Science Academy (OKC)
The Moon and the Tides

3rd Place
J. Andrew Henderson 10th grader from Cascia Hall Preparatory School
The Effects of Atmospheric and Elevated Levels of Carbon Dioxide on Behavioral Response in Drosophila Melanogaster
Behavior and Social Sciences

1st Place
Matthew Switzer 11th grader from Southmoore High School
Directed Attention Fatigue vs Optimal Performance: The Stroop Effect as an Indicator

2nd Place
Zachary Haskins 12th grader from Cascia Hall Preparatory School
The Effects of Concussions on Mental Processing as Measured by Time Perception, Shape Recognition, and Shape Association, A Second Year Study

3rd Place
Cody Bynum 10th grader from Grove High School
Bombarding the Brain: The effects of multimedia on efficiency of doing math problems

Engineering

1st Place
Sarah Riley 12th grader from Grove High School
An Even More Fluid Idea: The study of water quality improvement in fluidized sand filters compared to drip sand filters.

2nd Place
Waylon Reid Williams 11th grader from Muldrow High School
Improving Multirotor Aircraft Efficiency and Flight Times

3rd Place
Chandler Goodman 11th grader from Southmoore High School
Safe Spot... on the Dot! A Deployable Storm Shield

Mathematics and Computer Science

1st Place
Kevin Nguyen 11th grader from Southmoore High School
Tracking the Potential Epidemic of Infectious Disease with an Incubation Period Using the SEIR Model

2nd Place
Kevin Cosper 12th grader from Aline Cleo
The Almost Perfect Angle

3rd Place
Paxton McVey 11th grader from Westville High School
Angles on the Diamond
Environmental Science

1st Place
Hannah Easley 12th grader from Cascia Hall Preparatory School
*Preferential Cytotoxicity of Ground Water Concentrations of Arsenic on Tissue-Specific Cancer Cells*

2nd Place
McKalee Steen 11th grader from Grove High School
*The Heavy Metal Movement Phase II: A field and laboratory study of Panicum virgatum L. and its ability to phytoremediate soil from the Tar Creek Superfund Site*

3rd Place
Marie Beausoleil and Madelyn Haden 10th graders from Moore High School
*Blackout the Blue Green: The Effects of Calcium Carbonate and Calcium Chloride on Toxic Anabaena*

Zoology and Botany

1st Place
Jared Carper 10th grader from Grove High School
*Less is More: The effects of nitrates, phosphates, and zinc on lemna minor growth rate*

2nd Place
Paige Roberts 11th grader from Cascia Hall Prep School
*Investigating the effects of Tamiflu on Acute and Chronic toxicity of aquatic models*

3rd Place
Lauren York 11th grader from Southmoore High School
*Nematode Nightmares: RF radiation effects on the C. elegans neuron*

Microbiology

1st Place
Beau Bingham 10th grader from Cascia Hall Preparatory School
*Evaluating the Antimicrobial Efficacies of Algal Extracts on Antibiotic Sensitivity, Planktonic Cell Growth, and Biofilm Development in Selected Bacteria*

2nd Place
Jordan Cotton 10th grader from Moore High School
*What's in Your Toothpaste? Triclosan Tricks: The Susceptibility Against Streptococcus Mutans and Oral Microbes*

3rd Place
Sarah Sikes 11th grader from Southmoore High School
*Don't Chicken Out! Bacterial Load and Antibacterial Resistance in Organic vs. Non-Organic Poultry*