

**2016 Blue Ridge Highlands Regional Science Fair
March 4 - 5, 2016 – Radford University**

***VIRGINIA STATE SCIENCE AND ENGINEERING FAIR
DELEGATES***

Animal Sciences

102

Kadie Hudson

The Genetic Influence of Coagulation on Fly Control in Dairy Cattle

Southwest Virginia Governor's School

Sponsor: Rebecca Phillips

103

Emily Llaneras

Slaying the Destructor Part II: Dosage Optimization and Effects of Oxalic Acid on Honeybee Hives

Southwest Virginia Governor's School

Sponsor: Krista Stith

Behavioral and Social Sciences

206

Griffin McAvoy

Making the Write Choice: A Notable Difference

Tazewell High School

Sponsor: Greg Deskins

Biomedical and Health Sciences

Biomedical Engineering

Computational Biology and Bioinformatics

301

Julian Elmasry

Revolutionary Blood Test Tube 2.0

Southwest Virginia Governor's School

Sponsor: Jared Brown

306

Emma Stowe and Emma Strickland

Can We Build a Bone? BMP-2 Delivery for Osteoblastic Differentiation

Blacksburg High School

Sponsor: Katharine Davis

303 Carly Porter
Acceptance of Fecal Transplant Therapy
Southwest Virginia Governor's School
Sponsor: Rebecca Phillips

Cellular and Molecular Biology
Microbiology
Plant Sciences

403
Morgan Fisher
Effect of Water Source on Occurrence of Bacteria and Mycobacterium avium DNA in Shower Heads
Southwest Virginia Governor's School
Giles High School
Sponsor: Krista Stith

401
Leah Bianchi
Metagenomics Analysis of Phosphate Accumulating Microbial Consortium
Blacksburg High School
Sponsor: Katharine Davis

402
Noah Dabney
Sugar as Knowledge and Power: How Sugars Impact the Growth of Tree Roots
Home School
Sponsor: Eric Beers

Chemistry
Materials Science

501
D. Jacob Clary and Wesley Meredith
Electronic Wristbands That Alarm When Separated
Southwest Virginia Governor's School
Sponsor: Jerri England

Earth and Environmental Sciences
Physics and Astronomy

603
Alex Tomiak
Gaussian Rifle: Relationship Between Distance and Magnetic Stages
George Wythe High School

Sponsor: Delores Craig

**Embedded Systems
Robotics and Intelligent Machines
Systems Software**

704

Patrick Thomas

Deciduous Tree Leaf Identification with Artificial Neural Networks

Southwest Virginia Governor's School

Sponsor: Rick Fisher

**Engineering Mechanics
Environmental Engineering**

802

Isaac Payne

Aerodynamic Camper Device

Southwest Virginia Governor's School

Sponsor: Greg Riffe

801

Jonathan Tyler Neeble

Hydroelectric Power Generator

Southwest Virginia Governor's School

Sponsor: Matthew Frazier