

**33rd BLUE RIDGE HIGHLANDS REGIONAL SCIENCE FAIR
MARCH 1 - 2, 2024
RADFORD UNIVERSITY**

**VIRGINIA STATE SCIENCE AND ENGINEERING FAIR
DELEGATES**

- 102 Xavier Gitre
Organic Mercury and Avian Foraging: The Impact of Methylmercury Exposure on the Feeding Efficiency of Invertivorous Passerines
Blacksburg High School
Sponsor: Katharine Davis
- 204 Molly Morris
The Correlation Between Color Cues and Human Perception of Flavors
Southwest Virginia Governor's School
Sponsor: Greg Riffe
- 205 Sophie Perdue
Comfort Level Discussing Medical Topics Based on Parental Education Level
Southwest Virginia Governor's School
Sponsor: Megan Arnold
- 302 Ashley Layne
The Effects of a Specific Rest Interval on Different Levels of Physical Exertion, and How the Interval Affects Bat Speed
Southwest Virginia Governor's School
Sponsor: Matt Frazier
- 306 Ethan Ririe
Investigating the Impact of Parasitic Worm Secretions on Anaphylaxis as Novel Treatment for Food Allergies
Blacksburg High School
Sponsor: Katharine Davis
- 401 Laken Barnette
A Nutritional Assessment of Plant-Based Milk Alternatives: Comparing Common Plant-Based Milk Alternatives to Cow's Milk Using Chemical Analyses
Southwest Virginia Governor's School
Sponsor: Jared Brown

- 502 Connor Beasley
Metagenomic Analysis of the Microbial Biodiversity in Soil of Mountain Balds in Appalachia
Southwest Virginia Governor's School
Sponsor: Rebecca Phillips
- 601 Alexander Li
Enhancing Driving Safety via Real-Time Suppression of Vehicle Radar Interference
Blacksburg High School
Sponsor: Katharine Davis
- 903 Sriya Sridhar
Enzymatic Engineering for Enhanced Plastic Degradation in a Novel Plasmid System
Blacksburg High School
Sponsor: Katharine Davis
- 1001 Charlotte Phillips
Investigating Degradation of Polyhydroxyalkanoate Straws in Saltwater Environments with Varying Temperature, and in the Presence of Turbo mamoratus and Lysmata wurdemanni
Southwest Virginia Governor's School
Sponsor: Rebecca Phillips
- 1102 Derek Dunford
Anticipating Bridge Refurbishment Cost Using Bridge Characteristics
Southwest Virginia Governor's School
Sponsor: Greg Riffe
- 1106 Lishu Wang
The Economic Impact of California's Recent Out-Migration on its Neighboring States
Blacksburg High School
Sponsor: Katharine Davis
- 1201 Cole Abbott
Effects of Temperature and Humidity on the Timbre of Stringed Instruments
Southwest Virginia Governor's School
Sponsor: Matt Frazier
- 1301 Sage Lahmers
Relationship between below ground biomass and soil organic matter: case study in Mt Tabor Blacksburg
Blacksburg High School
Sponsor: Katharine Davis

1403 Radia Lu
*Systematic Assessment of Large Language Model's Correctness and Biases for
Minority Health*
Blacksburg High School
Sponsor: Katharine Davis