

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

SPECIAL AWARDS

American Association of University Women Awards

404

Taya Scott

Cell Migration Under an Applied Electric Field

Galax High School

Sponsor: Carmen Scott

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

American Chemical Society, Northeastern Tennessee Section Awards

First Place

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

Second Place

402

Noah Dabney

Sugar as Knowledge and Power: How Sugars Impact the Growth of Tree Roots

Home School

Sponsor: Eric Beers

Third Place

1303

Christopher Lockhart

I Scream for Ice Cream

Richlands Middle School

Sponsor: Kim Lawson

American Chemical Society, Virginia Blue Ridge Section Award

502

Alexander E. Dunford

Detection of Nitrate and Nitrite in a Solution Through Electrochemical Cyclic Voltammetry

Southwest Virginia Governor's School

Sponsor: Jared Brown

American Meteorological Society Awards

1402

Caleigh Street

Meteorology vs. Almanac

Richlands Middle School

Sponsor: Kim Lawson

804

Grace Turner

Purifying Wastewater with Carbon Absorption

Blacksburg High School

Sponsor: Benjamin Turner

American Psychological Association Award

1203

Madison Vanover

Looks Can Be Deceiving- Continuation

Tazewell Middle School

Sponsor: Katherine Claytor

American Red Cross Award

301

Julian Elmasry

Revolutionary Blood Test Tube 2.0

Southwest Virginia Governor's School

Sponsor: Jared Brown

American Society of Mammalogists Awards

203

Skylar Johnston

How Qualities of Urban Areas Affect Adoption Rates in Animal Shelters

Southwest Virginia Governor's School

Sponsor: Sherry Pugh

102

Kadie Hudson

The Genetic Influence of Coagulation on Fly Control in Dairy Cattle

Southwest Virginia Governor's School

Sponsor: Rebecca Phillips

Arizona State University Walton Sustainability Solutions Initiatives

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

801

Jonathan Tyler Neeble

Hydroelectric Power Generator

Southwest Virginia Governor's School

Sponsor: Matthew Frazier

ASM Education Foundation Award

301

Julian Elmasry
Revolutionary Blood Test Tube 2.0
Southwest Virginia Governor's School
Sponsor: Jared Brown

Association of Women Geoscientists Award

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

Biomedical Engineering Award – Virginia Tech

306
Emma Stowe and Emma Strickland
Can We Build a Bone? BMP-2 Delivery for Osteoblastic Differentiation
Blacksburg High School
Sponsor: Katharine Davis

Broadcom Masters Awards

1302
Sarah Elmasry
The Effect of Cleaner on Graffiti
Galax High School
Sponsor: Kathryn Pakkidis

1502
Anna Haas
The Effects of Different Types of Flaps on Wing Lift
Auburn Middle School
Sponsor: Carola Haas

1601
Meredith Dabney
A Burning Question: Which Friction-Based Fire Starter is the Most Effective?

Classical Conversations
Sponsor: Phyllis Newbill

1602
Aidan Sparling
The Strength of Recycling
Richlands Middle School
Sponsor: Kim Lawson

Genius Olympiad Awards

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

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

Intel Excellence in Computer Science Award

704
Patrick Thomas
Deciduous Tree Leaf Identification with Artificial Neural Networks
Southwest Virginia Governor's School
Sponsor: Rick Fisher

Intel Science Talent Search

305
Saumya Sharman
Bioinformatics Analysis of Proliferative Protein Clusters in Breast Cancer Cells
Southwest Virginia Governor's School
Sponsor: Krista Stith

303

Carly Porter

Acceptance of Fecal Transplant Therapy

Southwest Virginia Governor's School

Sponsor: Rebecca Phillips

102

Kadie Hudson

The Genetic Influence of Coagulation on Fly Control in Dairy Cattle

Southwest Virginia Governor's School

Sponsor: Rebecca Phillips

802

Isaac Payne

Aerodynamic Camper Device

Southwest Virginia Governor's School

Sponsor: Greg Riffe

402

Noah Dabney

Sugar as Knowledge and Power: How Sugars Impact the Growth of Tree Roots

Home School

Sponsor: Eric Beers

I-SWEEEP Award

601

Canaan Addison and Chace Collins

"Going Bananas With Coal!" A Fossil Fuel/Biofuel Energy

Richlands High School

Sponsor: Melissa Addison

Manufacturing Technology Center Award

802

Isaac Payne

Aerodynamic Camper Device

Southwest Virginia Governor's School

Sponsor: Greg Riffe

Mount Tabor Ruritan Club Awards

1301

Jonce Culbertson

The AA Battery Challenge

Richlands Middle School

Sponsor: Kim Lawson

1401

Ellie Currie

Human vs. Savings Catcher

Wallace Middle School

Sponsor: Shannon Mutter

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

209

Lucas White

Sodas: "To Drink or Not to Drink"

Richlands High School

Sponsor: Melissa Addison

Mu Alpha Theta Award

702

Joseph Nielson

The Effects of Network Media on Congestion

Southwest Virginia Governor's School

Sponsor: Rick Fisher

NASA Earth System Science Award

801

Jonathan Tyler Neeble

Hydroelectric Power Generator

Southwest Virginia Governor's School

Sponsor: Matthew Frazier

National Oceanic and Atmospheric Administration Award

802

Isaac Payne

Aerodynamic Camper Device

Southwest Virginia Governor's School

Sponsor: Greg Riffe

National Weather Service Award

1402

Caleigh Street

Meteorology vs. Almanac

Richlands Middle School

Sponsor: Kim Lawson

Office of Naval Research Awards (U. S. Navy and U. S. Marine Corps)

1402

Caleigh Street

Meteorology vs. Almanac

Richlands Middle School

Sponsor: Kim Lawson

1502

Anna Haas

The Effects of Different Types of Flaps on Wing Lift

Auburn Middle School

Sponsor: Carola Haas

602

Brayden Barnes

The Emission of Particles 1.0, 5.0, and 10.0 Microns (μm) in Diameter from Machines in a High School Machine Shop

Southwest Virginia Governor's School

Sponsor: Matthew Frazier

804

Grace Turner

Purifying Wastewater with Carbon Absorption

Blacksburg High School

Sponsor: Benjamin Turner

Radford University Sigma Xi Chapter Distinguished Award in Science

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

102

Kadie Hudson

The Genetic Influence of Coagulation on Fly Control in Dairy Cattle

Southwest Virginia Governor's School

Sponsor: Rebecca Phillips

Ricoh Corporation Sustainable Development Award

402

Noah Dabney

Sugar as Knowledge and Power: How Sugars Impact the Growth of Tree Roots

Home School

Sponsor: Eric Beers

Society for In Vitro Biology Award

402

Noah Dabney

Sugar as Knowledge and Power: How Sugars Impact the Growth of Tree Roots

Home School

Sponsor: Eric Beers

U. S. Air Force Distinguished Achievement Awards

704

Patrick Thomas

Deciduous Tree Leaf Identification with Artificial Neural Networks

Southwest Virginia Governor's School

Sponsor: Rick Fisher

702

Joseph Nielson

The Effects of Network Media on Congestion

Southwest Virginia Governor's School

Sponsor: Rick Fisher

603

Alex Tomiak

Gaussian Rifle: Relationship Between Distance and Magnetic Stages

George Wythe High School

Sponsor: Delores Craig

United States Metric Association Award

801

Jonathan Tyler Neeble

Hydroelectric Power Generator

Southwest Virginia Governor's School

Sponsor: Matthew Frazier

U. S. Stockholm Junior Water Prize

First Place

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

Second Place
804

Grace Turner
Purifying Wastewater with Carbon Absorption
Blacksburg High School
Sponsor: Benjamin Turner

Virginia Dental Awards

102
Kadie Hudson
The Genetic Influence of Coagulation on Fly Control in Dairy Cattle
Southwest Virginia Governor's School
Sponsor: Rebecca Phillips

206
Griffin McAvoy
Making the Write Choice: A Notable Difference
Tazewell High School
Sponsor: Greg Deskins

301
Julian Elmasry
Revolutionary Blood Test Tube 2.0
Southwest Virginia Governor's School
Sponsor: Jared Brown

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

503

Savanna Lumpkin
Swim Caps: Latex vs. Silicone
Galax High School
Sponsor: Trace Lumpkin

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

704
Patrick Thomas
Deciduous Tree Leaf Identification with Artificial Neural Networks
Southwest Virginia Governor's School
Sponsor: Rick Fisher

802
Isaac Payne
Aerodynamic Camper Device
Southwest Virginia Governor's School
Sponsor: Greg Riffe

Virginia Dental Grand Award

801
Jonathan Tyler Neeble
Hydroelectric Power Generator
Southwest Virginia Governor's School
Sponsor: Matthew Frazier

Virginia Lakes and Watersheds Association Award

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

Yale Science and Engineering Association Award

704

Patrick Thomas

Deciduous Tree Leaf Identification with Artificial Neural Networks

Southwest Virginia Governor's School

Sponsor: Rick Fisher

Emory and Henry Scholarship

302

Stewart Merdian III

Biomechanics of Pitching

Galax High School

Sponsor: Patti Merdian

New River Community College Scholarship

703

Catherine Shaffer

Usability of Mobile Applications to Control Interior Lighting

Blacksburg High School

Sponsor: Katharine Davis

Wytheville Community College Scholarship

301

Julian Elmasry

Revolutionary Blood Test Tube 2.0

Southwest Virginia Governor's School

Sponsor: Jared Brown