

**2015 Blue Ridge Highlands Regional Science Fair
March 6 - 7, 2015 – Radford University**

SPECIAL AWARDS

American Association of University Women Awards

304

Mary Kate Nicely

Analysis of Bovine Tensile Strength for Prosthetic Heart Valve Use

Southwest Virginia Governors' School

Sponsor: Krista Stith

305

Alaa Ragab

Mechanism of Calcium Cardiac Transport Modulation by the Novel Drug Nitroxyl

Southwest Virginia Governors' School

Sponsor: Krista Stith

American Chemical Society Awards, North Eastern Tennessee Section Awards

1st place

402

Samuel Christoffer Mogen

The Use of Layer-by-layer Techniques to Aid in the Protection of Antimicrobial Films

Southwest Virginia Governors' School

Sponsor: Jared Brown

2nd place

401

Bridget Boenke

Determining Salinity Concentration of Road Spray

Southwest Virginia Governors' School

Sponsor: Jared Brown

American Chemical Society Award, Virginia Blue Ridge Section Award

402

Samuel Christoffer Mogen

The Use of Layer-by-layer Techniques to Aid in the Protection of Antimicrobial Films

Southwest Virginia Governors' School

Sponsor: Jared Brown

American Meteorological Society Awards

901

Ashley Jordan and Austin Owen

The Correlation Between Surface Temperature and Arctic Sea Ice Thickness

Southwest Virginia Governors' School

Sponsor: Daniel Blake

American Psychological Association Award

305

Alaa Ragab

Mechanism of Calcium Cardiac Transport Modulation by the Novel Drug Nitroxyl

Southwest Virginia Governors' School

Sponsor: Krista Stith

American Red Cross Award

1201

Emma Kennedy

Take a Knee: Strength Imbalance and Knee Injuries in Female Athletes

Classical Conversations

Sponsor: Sandy Kennedy

American Society of Mammalogists Awards

101

Justin Archer

An Analysis of the Potential Ethanol Toxicity Levels in Dog Food Using Gas Chromatography

Southwest Virginia Governor's School

Sponsor: Jared Brown

102

Sarah Hope Cartee

Equine Prosthetic Model

Southwest Virginia Governor's School

Sponsor: Rebecca Phillips

103

Blake Hall

Calf Starter Preference and Comparison
Home School
Sponsor: Mark McCann

1101
Meredith Dabney
Horse Hoof Health: Trick or Treatment?
Classical Conversations
Sponsor: Carrie Kroehler

1102
Anna Haas
The Effect of Weather on Bird Activity at Feeders
Auburn Middle School
Sponsor: Carola Haas

Arizona State University Walton Sustainability Solutions Initiatives

502
Emily Llaneras
Slaying the "Destructor": The Effectiveness of Alternative Varroa Mite Treatments
Southwest Virginia Governors' School
Sponsor: Krista Stith

ASM Education Foundation Award

601
Whatley Ozer
Measuring the Effects of Softening Techniques on Pointe Shoes
Southwest Virginia Governors' School
Sponsor: Sherry Pugh

Association of Women Geoscientists Award

502
Emily Llaneras
Slaying the "Destructor": The Effectiveness of Alternative Varroa Mite Treatments
Southwest Virginia Governors' School
Sponsor: Krista Stith

Beta Beta Beta Biological Society Award

502

Emily Llaneras
Slaying the "Destructor": The Effectiveness of Alternative Varroa Mite Treatments
Southwest Virginia Governors' School
Sponsor: Krista Stith

Broadcom Masters Awards

1101
Meredith Dabney
Horse Hoof Heath: Trick or Treatment?
Classical Conversations
Sponsor: Carrie Kroehler

1201
Emma Kennedy
Take a Knee: Strength Imbalance and Knee Injuries in Female Athletes
Classical Conversations
Sponsor: Sandy Kennedy

1401
Joshua Altizer
Leeching or Leaching- Who's the Real Parasite?
Classical Conversations
Sponsor: Karen Altizer

1502
Anna Katherine Smith
Sails, Scales, and Indoor Gales
Classical Conversations
Sponsor: Kenneth Smith

1601
Peter Quek
When Paper Flies
Classical Conversations
Sponsor: Leelian Quek

1702
Daniel Folta
Why Can't I Get Better?
Classical Conversations
Sponsor: Meg Folta

Genius Olympiad Awards

502

Emily Llaneras

Slaying the "Destructor": The Effectiveness of Alternative Varroa Mite Treatments

Southwest Virginia Governors' School

Sponsor: Krista Stith

Intel Science Talent Search

305

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Mechanism of Calcium Cardiac Transport Modulation by the Novel Drug Nitroxyl

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The Use of Layer-by-layer Techniques to Aid in the Protection of Antimicrobial Films

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Slaying the "Destructor": The Effectiveness of Alternative Varroa Mite Treatments

Southwest Virginia Governors' School

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I-SWEEEP Award

502

Emily Llaneras

Slaying the "Destructor": The Effectiveness of Alternative Varroa Mite Treatments

Southwest Virginia Governors' School

Sponsor: Krista Stith

Manufacturing Technology Center Award

402

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The Use of Layer-by-layer Techniques to Aid in the Protection of Antimicrobial Films

Southwest Virginia Governors' School

Sponsor: Jared Brown

Mount Tabor Ruritan Club Awards

502

Emily Llaneras

Slaying the "Destructor": The Effectiveness of Alternative Varroa Mite Treatments

Southwest Virginia Governors' School

Sponsor: Krista Stith

802

Ella Reeves

Comparing a Manure-Based Fertilizer to Synthetic Fertilizer

Southwest Virginia Governors' School

Sponsor: Rebecca Phillips

1201

Emma Kennedy

Take a Knee: Strength Imbalance and Knee Injuries in Female Athletes

Classical Conversations

Sponsor: Sandy Kennedy

1704

Carson Noel

Got Germs?

Tazewell Middle School

Sponsor: Katherine Claytor

National Weather Service Award

1102

Anna Haas

The Effect of Weather on Bird Activity at Feeders

Auburn Middle School

Sponsor: Carola Haas

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

103

Blake Hall

Calf Starter Preference and Comparison

Home School

Sponsor: Mark McCann

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The Use of Layer-by-layer Techniques to Aid in the Protection of Antimicrobial Films
Southwest Virginia Governors' School
Sponsor: Jared Brown

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Anna Katherine Smith
Sails, Scales, and Indoor Gales
Classical Conversations
Sponsor: Kenneth Smith

1601
Peter Quek
When Paper Flies
Classical Conversations
Sponsor: Leelian Quek

Ricoh Corporation Sustainable Development Award

401
Bridget Boenke
Determining Salinity Concentration of Road Spray
Southwest Virginia Governors' School
Sponsor: Jared Brown

Society for In Vitro Biology

801
Elliott Delp
Measuring the Effectiveness of an Immobilization Prototype to Decrease Cyanobacteria
Southwest Virginia Governors' School
Sponsor: Krista Stith

U. S. Air Force Distinguished Achievement Awards

102
Sarah Hope Cartee
Equine Prosthetic Model
Southwest Virginia Governor's School
Sponsor: Rebecca Phillips

301
Timothy Alex Bandy

Tooth Erosion: A Comparison of Acidic Solutions on the Rate of Tooth Erosion
Richlands High School
Sponsor: Tiffany Stillwell

302
Justin Davis
Effect of Soccer Headgear on Impact Forces
Southwest Virginia Governors' School
Sponsor: Krista Stith

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Alaa Ragab
Mechanism of Calcium Cardiac Transport Modulation by the Novel Drug Nitroxyl
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Southwest Virginia Governors' School
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United States Metric Association Award

301

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Tooth Erosion: A Comparison of Acidic Solutions on the Rate of Tooth Erosion
Richlands High School
Sponsor: Tiffany Stillwell

U. S. Public Health Award

402
Samuel Christoffer Mogen
The Use of Layer-by-layer Techniques to Aid in the Protection of Antimicrobial Films
Southwest Virginia Governors' School
Sponsor: Jared Brown

U. S. Stockholm Junior Water Prize

First Place
401
Bridget Boenke
Determining Salinity Concentration of Road Spray
Southwest Virginia Governors' School
Sponsor: Jared Brown

Second Place
402
Samuel Christoffer Mogen
The Use of Layer-by-layer Techniques to Aid in the Protection of Antimicrobial Films
Southwest Virginia Governors' School
Sponsor: Jared Brown

Honorable Mention
801
Elliott Delp
Measuring the Effectiveness of an Immobilization Prototype to Decrease Cyanobacteria
Southwest Virginia Governors' School
Sponsor: Krista Stith

Virginia Dental Awards

103
Blake Hall
Calf Starter Preference and Comparison
Home School
Sponsor: Mark McCann

201

Griffin McAvoy

Objective and Subjective Comparisons of the Frequency Analyses of MP3 and Compact Disc Musical Recordings

Tazewell High School

Sponsor: Greg Deskins

301

Timothy Alex Bandy

Tooth Erosion: A Comparison of Acidic Solutions on the Rate of Tooth Erosion

Richlands High School

Sponsor: Tiffany Stillwell

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Whatley Ozer

Measuring the Effects of Softening Techniques on Pointe Shoes

Southwest Virginia Governors' School

Sponsor: Sherry Pugh

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Ella Reeves

Comparing a Manure-Based Fertilizer to Synthetic Fertilizer

Southwest Virginia Governors' School

Sponsor: Rebecca Phillips

Virginia Dental Grand Award

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Mechanism of Calcium Cardiac Transport Modulation by the Novel Drug Nitroxyl

Southwest Virginia Governors' School

Sponsor: Krista Stith

Virginia Lakes and Watersheds Association Award

401

Bridget Boenke

Determining Salinity Concentration of Road Spray

Southwest Virginia Governors' School

Sponsor: Jared Brown

1401

Joshua Altizer

Leeching or Leaching- Who's the Real Parasite?

Classical Conversations

Sponsor: Karen Altizer

Yale Science and Engineering Association Award

601

Whatley Ozer

Measuring the Effects of Softening Techniques on Pointe Shoes

Southwest Virginia Governors' School

Sponsor: Sherry Pugh

Emory and Henry Scholarship

901

Austin Owen

The Correlation Between Surface Temperature and Arctic Sea Ice Thickness

Southwest Virginia Governors' School

Sponsor: Daniel Blake

New River Community College Scholarship

802

Ella Reeves

Comparing a Manure-Based Fertilizer to Synthetic Fertilizer

Southwest Virginia Governors' School

Sponsor: Rebecca Phillips

Wytheville Community College Scholarship

401

Bridget Boenke

Determining Salinity Concentration of Road Spray

Southwest Virginia Governors' School

Sponsor: Jared Brown