

West Virginia State Science and Engineering Fair

OFFICIAL RESULTS

March 10, 2025

Division I, Animal Science

1st	Grayson Grimes		Harrison County	<i>Cracking the Code of Hen Egg Production</i>
2nd	Brenna Richards		Ohio County	<i>Can Dogs Understand Words or Are They Just Reacting to Sounds?</i>
3rd	Hayes Hileman		Greenbrier County	<i>FerAppease: Is it helpful for weaning?</i>

Division I, Behavioral and Social Sciences

1st	Milyn Neumann		Greenbrier County	<i>Can Humans Identify Images Generated by Artificial Intelligence</i>
2nd	Madison McCutcheon		Ohio County	<i>Can Humans Recognize AI Generated Images From Real Ones?</i>
3rd	RosylN Tidd Scotlin Snell	Ruby Brozenick	Harrison County	<i>Ready, Set, Placebo!</i>
HM	Carlee Johnson Maggie Shreve	Hadley Staats	Wood County	<i>What's Your Mood?</i>

Division I, Chemistry

1st	Eleni Karnoupakis	Willa Collins	Ohio County	<i>Skin Deep: Comparing Moisturizers</i>
2nd	Zadaya Bolyard		Preston County	<i>Power in Heat Protection</i>
3rd	Titan Hale		Boone County	<i>Meltdown: A Race to Chill Water the Fastest</i>
HM	Mace Dolan-White	Maddix Dolan-White	Greenbrier County	<i>Heartburn Neutralizers</i>

Division I, Earth and Environmental Sciences

1st	Raiden Sayre		Jackson County	<i>Rockin Reservoirs</i>
2nd	Clacy Fields		Mercer County	<i>Go With The Flow</i>
3rd	Joy Sutherland		Jefferson County	<i>Microorganisms in These Mountains</i>

Division I, Energy

1st	Charlotte Theys		Wirt County	<i>Forced Floating</i>
2nd	Emmett Butcher		Berkeley County	<i>Can Fruit Produce Energy</i>
3rd	Ronan Johnson		McDowell County	<i>The Eruption Majesty</i>

Division I, Engineering

1st	Henry Rohanna Jonathan Hunt	Asher Patton	Monongalia County	<i>Which Tread is Best?</i>
2nd	Kavya Babariya		Wood County	<i>Propeller Efficiency</i>
3rd	Prithvi Prasain		Ohio County	<i>Mousetrap Car</i>

Division I, Material Science

1st	Presley Cline		Greenbrier County	<i>Ice Cream Cups</i>
2nd	Lyndsay Nichols		Clay County	<i>Do Colors Affect Temperature?</i>
3rd	Taryn Sullivan		Preston County	<i>The Best Cush for Your Tush</i>
HM	Rebecca Daniels		Wyoming County	<i>Nailed It!</i>

Division I, Mathematics and Data

1st	Madeline Browning	Hadley Smith	Mercer County	<i>Sweet Statistics</i>
2nd	Easton Cole		Jefferson County	<i>Orioles Pitching & Probability</i>

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3rd	Amelia He		Boone County	<i>A-Maize-Ing Popcorn Test</i>
HM	Brody Cooper		Ohio County	<i>Dimes, Distance, and Data</i>

Division I, Medical Sciences

1st	Gianna Bryant		Jackson County	<i>We Eat Nails for Breakfast</i>
2nd	Sophie Garlic	Ava Roberts	McDowell County	<i>Stop, Drop & Roll: The 5 Second Rule</i>
3rd	Sawyer Blankenship Willow Hendrick	Finn Blankenship	Greenbrier County	<i>You Look Just Like Your...</i>
HM	Emma Lyda		Morgan County	<i>Turn the Beat Around</i>

Division I, Physics and Astronomy

1st	Zoey Brown		Mercer County	<i>The Shape of Sound</i>
2nd	Carter Lemon		Wood County	<i>The Mystical Flight of the Arrow</i>
3rd	Myles Goodman	James Goodman	Cabell County	<i>Spin to Win: the Science of Beyblades</i>
HM	Will O'Brien		Greenbrier County	<i>Dragster Track Surfaces and Friction</i>

Division I, Plant Science

1st	Daniel Mills		Berkeley County	<i>This is Bananas</i>
2nd	Osborne, Danielle		Roane County	<i>Seed Starter vs Potting Soil</i>
3rd	Charlotte Peplowski	Jocelyn Peplowski	Greenbrier County	<i>Growing In The Rhythm</i>
HM	Bruce Belcher Gabriel Elkins	Lynkon Wellman	Mingo County	<i>Do Plants Get What They Need?</i>

Division I, Technology

2nd	Ben Bailey		Wyoming County	<i>Which Console has the Most Fortnite Players?</i>
3rd	Price, Connor		Roane County	<i>Ollie the Dancing Robot</i>

Division II, Animal Science

1st	John Fernald	Lauren Fernald	Raleigh County	<i>Pollinator's Preference: Bringing the Buzz to our Backyard</i>
2nd	Aven Pifer		Wood County	<i>Whiteline</i>
3rd	Pranav Ponugupati	Vibhuman Haricharan	Kanawha County	<i>Tartazine and Its Effects on Domestic Tissue Transparency</i>

Division II, Behavioral and Social Sciences

1st	Wyatt Lamb		Webster County	<i>Optimal Performance</i>
2nd	Declan Horn Cohen Massie	Morgan Snodgrass	Putnam County	<i>Where's Waldo</i>
3rd	Gabriel Floyd		Wood County	<i>Priming & Anchoring</i>

Division II, Chemistry

1st	Jayden Dy		Raleigh County	<i>Oobleck Elasticity</i>
2nd	Ayden Smith		Wood County	<i>Murky and Clear</i>
3rd	Marley Sanders	Jessalyn Caruthers	Putnam County	<i>The Perfect Cookie</i>
HM	Noah Sunday		Jefferson County	<i>What type of Salt Melts Ice the Fastest?</i>

Division II, Earth and Environmental Sciences

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1st	Ainslie Koreski	Wood County	<i>Get the Lead Out</i>
2nd	Ryder Stolipher	Jefferson County	<i>Dirty to Drinkable</i>
3rd	Lila Samsel	Monroe County	<i>Going Green With Grey Water</i>

Division II, Energy

2nd	Landon Russell	Wood County	<i>Which fire starter is best to take backpacking?</i>
3rd	Jackson Fridley	Harrison County	<i>Competition's Heatin' Up</i>
HM	Makenna Steele	Mercer County	<i>Is Hydrogen the Answer?</i>

Division II, Engineering

1st	Nathaniel Dodd	Kanawha County	<i>Strength of Different Types of Reinforcement on Concrete</i>	
2nd	Cohen Mcglaughlin	Alex Jimenez	Berkeley County	<i>Magnetic Levitation: How Magnetic Force Affects Height</i>
3rd	Desmond Myers	McDowell County	<i>My Drone's Lift Off Story</i>	
HM	Quang "Leo" Nguyen	Marshall County	<i>Drivetrains</i>	

Division II, Material Science

2nd	Kamden Knapp	Marshall County	<i>How does Temp Affect your Golf Game?</i>
3rd	Daphne Steffen	Jefferson County	<i>The Staining of Leftover Boxes</i>

Division II, Mathematics and Data

1st	Emily Shuman	Wood County	<i>Name Brand vs. Generic</i>
2nd	Vada Walsh	Preston County	<i>Generative AI Does It Mirror Real World Data?</i>
3rd	Cameron Smith	Mineral County	<i>How Does Angle Affect Shooting Accuracy?</i>

Division II, Medical Sciences

1st	Preston Stover	Raleigh County	<i>Lotion Potion</i>
2nd	Jayden Matthew	Wood County	<i>Arduino Mimicry of the Pancreas</i>
3rd	Kayleigh Jo Mays	Boone County	<i>I'm So Dizzy!</i>
HM	Brady Franks	Berkeley County	<i>Suds for Safety</i>

Division II, Physics and Astronomy

1st	Yashmit Panta	Raleigh County	<i>Air Cushion Dynamics: Exploring the Physics of Hovercrafts</i>
2nd	Shrija Malkaram	Kanawha County	<i>Measuring Blue Light Emissions in the Common Household</i>
3rd	Gabriela Chiang Hernandez	Jefferson County	<i>How Does the Angle of Incidence Affect the Angle of Reflection?</i>
HM	Eliana Higgins	Wood County	<i>I'm So Dizzy!</i>

Division II, Plant Science

1st	Charvitha Sanjaya	Kanawha County	<i>The Effects of MARS Growth Stimulant on Plant Growth and Physiology</i>
2nd	Ainsly Feathers	Preston County	<i>Growing Basil</i>

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3rd Lauren Williams Pendleton County *Plantastic Growth*

Division II, Technology

1st James D'Eramo Wood County *Battle of the Bots*

2nd Rylee Fauber Putnam County *Latent Fingerprints*

3rd Ainsley Gray Jefferson County *A.I. vs. Human - Is A.I. Finally Smarter than an 8th Grader?*

Division III, Animal Sciences

2nd Sanketh Guppi Monongalia County *Investigating the Role of LonP1 in Mitochondrial Metabolic Switching and Cardiomyocyte Maturation for Heart Disease Therapy*

Division III, Behavioral and Social Sciences

3rd Katelynn Riley Marshall County *Ethnicity vs. Depression*

Division III, Biochemistry

2nd Archana Krishnathas Kanawha County *Effects of Salinity-Induced Stress on Arabidopsis thaliana's Ecotypes*

3rd Nicholas Bernatowicz Preston County *Cold Drugs, Hot Cows*

Division III, Biomedical and Health Sciences

2nd Iqraa Zaman Kanawha County *Consequences of TRPV1 (Transient Receptor Potential Vanilloid 1) Knockout in Human U87 Glioblastoma Mediated by Capsaicin*

Division III, Biomedical Engineering

1st Kayla Crouell Berkeley County *Servo Reader-4: Developing an Accessible Next-Generation Refreshable Braille Display with Integrated OCR, Leading-Edge Arduino IDE Programming, Advanced Capabilities, and Low-Cost Tactile Solutions for the Blind and Disabled*

3rd Mariah Titchenell Preston County *Fluoride Flow: What's Flowing in Your Water?*

Division III, Cellular and Molecular Biology

1st Manvitha Sanjaya Kanawha County *Unraveling the Mechanisms of Duckweed Tolerance to UV-B Radiation Stress: Insights into Adaptive Plant Responses*

2nd Annabell Ake Fayette County *Genetic Analysis of Glial Cells in Relapsing-Remitting Multiple Sclerosis*

3rd Alyssa Friend Preston County *Osmosis in a Gummy*

Division III, Chemistry

3rd Sophie Zinn Preston County *All About the Base*

Division III, Computational Biology and Bioinformatics

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1st	Pavan Subramani		Monongalia County	<i>Machine learning optimized in silico design of a de novo RAGE inhibitor: a small molecule approach to slowing the progression of inflammatory disease</i>
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Division III, Earth and Environmental Sciences

1st	Dharani Thangasamy		Kanawha County	<i>Interspecies Variation in Physiological and Biochemical Responses to Arsenic (As) Stress in Cucurbitaceae: Insights into Tolerance Mechanisms for Sustainable Agriculture Background</i>
2nd	Sreyan Das		Monongalia County	<i>An Analysis of Wildland Fires in the United States</i>
3rd	Louisa Pate	Drew Cards	Jefferson County	<i>the Effect of Pollution on Benthic Macroinvertebrates</i>

Division III, Embedded Systems

3rd	Haylie Trenum		Preston County	<i>Signal Snaggers: Testing Object Interference</i>
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Division III, Energy: Sustainable Materials and Design

1st	Molly Steele	Trey Hagerman	Mercer County	<i>Which blade design produces the most energy?</i>
	Aaliyah Lamie			
2nd	Shrihan Malkaram		Kanawha County	<i>Analyzing Efficiency in wind turbine farms to minimize the cost to energy ratio</i>

Division III, Engineering Technology: Statics and Dynamics

1st	Maya Panta		Raleigh County	<i>Heat Exchanger Design & Optimization</i>
2nd	Jonah Mays		Boone County	<i>A Whole Lot of Shaking Going On</i>
3rd	Alexander Simpson	Noah Chambers	Berkeley County	<i>Electric Whisper</i>
	Logan Smith			
HM	Daniel Macjuk		Cabell County	<i>Flood Wall</i>

Division III, Environmental Engineering

1st	Ethan White		Preston County	<i>Stream pH Exploring Acidity</i>
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Division III, Mathematics

1st	Austin Luo		Monongalia County	<i>Chip-Firing on Directed and Binary Trees</i>
2nd	Wyatt Miller		Harrison County	<i>Going the Disc ance</i>
3rd	Landon Haught		Wood County	<i>Evolutionary Algorithms</i>

Division III, Microbiology

1st	Donald Parks		Preston County	<i>Effects of Humidity Food Decomposition</i>
2nd	Jack Hopkins	Brian Burton	Berkeley County	<i>Disinfectant Face-Off</i>
3rd	Mrithula Premchanth		Kanawha County	<i>The Effect of Different Soap Concentrations on the Natural Selection of E-coli</i>

Division III, Physics and Astronomy

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1st	Jaxon Milam		Ohio County	<i>Determining the Universe's Age and Expansion Rate with the Redshift of Galaxies' HI Lines</i>
2nd	Suzannah Raines		Raleigh County	<i>The Mystery of the Magnetar</i>
3rd	Noelani Castellon		Berkeley County	<i>Tails of the Universe: Simulating Comet Tail Behavior</i>

Division III, Plant Sciences

1st	Sarah Hall	Severina Macabata	Jefferson County	<i>Effects of Sugar on Soil and Growth of Radishes at the Micro Level</i>
2nd	Riley Mayfield		Preston County	<i>Magnetisms Effect on Plant Growth</i>
3rd	Abbigail Perry		Kanawha County	<i>Do Moon Gardens Attract More Pollinators Than Regular Pollinators Gardens?</i>

Division III, Robotics and Intelligent Machines

1st	William Gibbs	Sean Viteri	Jefferson County	<i>Breaking the Fourth Wall: Analyzing Artificial Intelligence Across Dimensions</i>
2nd	Smit Babariya		Wood County	<i>Reach Into The Mind</i>

Division III, Systems Software

1st	Caden Yao		Monongalia County	<i>IMPersona: Assessing AI's Capability to Mimic Human Friends</i>
2nd	Christian Diaz		Berkeley County	<i>By the Time You Have Finished Reading This, You're Been Hacked</i>

Division III, Translational Medical Sciences

1st	Dhruvika Solanki		Monongalia County	<i>Interpretable and Trustworthy Arrhythmia Diagnostics Using Theory-Trained Networks</i>
3rd	Yevin Ranasinghe		Kanawha County	<i>The Effects of Curcumin on Glioblastoma Cell Viability</i>