

West Virginia State Science and Engineering Fair

OFFICIAL RESULTS

March 4, 2024

Division I, Animal Science

| | | | | |
|-----|-----------------|--|-----------------|---|
| 1st | Scarlett Hayes | | Preston County | <i>Which Dog Treats Dogs Like Most?</i> |
| 2nd | Tyler McMillion | | Nicholas County | <i>How Do Drinks Affect our Teeth</i> |
| 3rd | Addison Withrow | | Mason County | <i>Do You Know Your Dog's Favorite Color?</i> |

Division I, Behavioral and Social Sciences

| | | | | |
|-----|-----------------|------------|-------------------|---------------------------|
| 1st | Emmalyn Webb | | Greenbrier County | <i>The Turkey Myth</i> |
| 2nd | Annabel Francis | Clara Tidd | Harrison County | <i>Level Up Your Game</i> |
| | Vaughn Veltri | | | |
| 3rd | Marion Williams | | Pendleton County | <i>Taste the Rainbow</i> |

Division I, Chemistry

| | | | | |
|-----|------------------|--|-------------------|---|
| 1st | Ayaan Patel | | Greenbrier County | <i>Turning Milk Into Plastic</i> |
| 2nd | Caden Pascarella | | Wood County | <i>Which natural preservative works best?</i> |
| 3rd | Mollie Wilkinson | | Harrison County | <i>My 2 Cents on Cleaning</i> |

Division I, Earth and Environmental Sciences

| | | | | |
|-----|-----------------|-------------|----------------|---|
| 1st | Jacob Heubi | | Preston County | <i>Soil Erosion in Motion</i> |
| 2nd | Clacy Fields | | Mercer County | <i>Model Water Flow in Rivers</i> |
| 3rd | Kamrie Anderson | Alyson Bond | Wood County | <i>Is something "fishy" about this water?</i> |

Division I, Energy

| | | | | |
|-----|---------------|--------------|-----------------|---|
| 1st | Claire Litten | | Berkeley County | <i>Electric Slime</i> |
| 2nd | Emma Goodrich | | Preston County | <i>Sparks From a Spud</i> |
| 3rd | Austin Taylor | Kash Kincaid | Clay County | <i>Do Energizer Batteries Keep Going?</i> |
| | Vance Hamrick | | | |

Division I, Engineering

| | | | | |
|-----|-------------------|-------------------|------------------|--|
| 1st | Everett Eastman | | Jefferson County | <i>What Do Tech Decks Roll Better On?</i> |
| 2nd | Penelope Kemmerer | Preston Argabrite | Harrison County | <i>Up UP & Away...</i> |
| 3rd | Carter Lake | | Wood County | <i>Water Purification Method: Which is best?</i> |

Division I, Material Science

| | | | | |
|-----|----------------|-------------|-----------------|-----------------------------|
| 1st | Lillian Walker | | Nicholas County | <i>Walking Water</i> |
| 2nd | Alayna Lyons | | Wyoming County | <i>Apple of My Eye Test</i> |
| 3rd | Laina Cusack | McKena Shay | Ohio County | <i>Potion Power</i> |

Division I, Mathematics and Data

| | | | | |
|-----|--------------|--|-------------------|--------------------------------------|
| 2nd | Maggie Evans | | Grant County | <i>Popcorn Party</i> |
| 3rd | Jayce Bush | | Greenbrier County | <i>Flipping Out: Bottle Flipping</i> |

Division I, Medical Sciences

| | | | | |
|-----|------------------|--|-------------------|--|
| 1st | Christian Herron | | Grant County | <i>Too Much Sugar!</i> |
| 2nd | Carter Smith | | Pocahontas County | <i>Do Video Games Affect Eyesight?</i> |
| 3rd | Joseph Petro | | McDowell County | <i>My Pop Has Gas</i> |

Division I, Physics and Astronomy

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| 1st | Carter Lemon | | Wood County | <i>Landed or Lost: A Deep Dive Into Fishing Line</i> |
| 2nd | Garrett Maclachlan | | Berkeley County | <i>Radioactivity Exposure and Shielding</i> |
| 3rd | Jacob Whisler | | Ohio County | <i>Parachutes: Is Bigger Better?</i> |

Division I, Plant Science

| | | | | |
|-----|------------------|--|-----------------|---|
| 1st | Emma Young | | Nicholas County | <i>Decomposition of Fresh vs Processed Food</i> |
| 2nd | Samantha Tidwell | | Berkeley County | <i>How Environmental Factors Affect Plants</i> |
| 3rd | Zoey Brown | | Mercer County | <i>Searching For The Sun</i> |

Division I, Technology

| | | | | |
|-----|------------------|--------------|-----------------|-----------------------------------|
| 1st | Brynlee Franklin | | Berkeley County | <i>Error 404: Wi-Fi Not Found</i> |
| 2nd | Izabella Suwal | Paris Matney | Cabell County | <i>Farming With Bob</i> |
| | Kile Minnix | | | |
| 3rd | Liam Rogosky | | Upshur County | <i>The Pig Protector</i> |

Division II, Animal Science

| | | | | |
|-----|-----------------|---------------|------------------|--------------------------------------|
| 1st | Anya Steuer | | Jefferson County | <i>Duck, Duck, Chicken</i> |
| 2nd | Ava Kirkpatrick | | Mason County | <i>What's Eating our Goats</i> |
| 3rd | Aven Pifer | Adley Ritchie | Wood County | <i>Predicting Foaling by Milk pH</i> |

Division II, Behavioral and Social Sciences

| | | | | |
|-----|---------------|-------------|----------------|--------------------------------------|
| 1st | Alex Waskey | | Jackson County | <i>Does Candy Make you Smarter?</i> |
| 2nd | Gavin Lockart | Molly Grass | Raleigh County | <i>Spot the Bot</i> |
| | Alex Le | | | |
| 3rd | Pryce Dejneka | Bryce Sandt | Putnam County | <i>Testing Behavioral Incentives</i> |

Division II, Chemistry

| | | | | |
|-----|----------------|--|-------------------|--|
| 1st | Harlan Fravel | | Morgan County | <i>Rethink Your Drink</i> |
| 2nd | Nadiya Kerr | | Pocahontas County | <i>One Tough Cookie: Finding the Best Baking Powder Substitute</i> |
| 3rd | Madalyn Turner | | Raleigh County | <i>What water splits into hydrogen and oxygen better?</i> |

Division II, Earth and Environmental Sciences

| | | | | |
|-----|----------------|--|-----------------|--|
| 1st | Kensie Grigsby | | Marshall County | <i>Is Your Water Safe to Drink?</i> |
| 2nd | Preston Stover | | Raleigh County | <i>All Bottles Up</i> |
| 3rd | Jacob Carsey | | Wood County | <i>What is the harm of dumping used motor oil on the ground?</i> |

Division II, Energy

| | | | | |
|-----|---------------------|--|-------------------|--|
| 1st | Isabella Powell | | Morgan County | <i>How Does Water Flow Affect Hydroelectric Power Generation?</i> |
| 2nd | Tayton Martin | | Greenbrier County | <i>Wind Turbines: Blade Size vs Power Output</i> |
| 3rd | Carleigh Jo Cochran | | Marshall County | <i>Are you Positive You're Getting the Best Bank of your Buck?</i> |

Division II, Engineering

| | | | | |
|-----|-------------------|--|-------------------|--------------------|
| 2nd | Jaxon Dolan-White | | Greenbrier County | <i>N95 Faceoff</i> |
|-----|-------------------|--|-------------------|--------------------|

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3rd Brycen Craft Caden White Roane County *Magnetic Cars*

Division II, Material Science

1st Hayden Rector Roane County *Will It Get Wet?*

2nd Dylan Eye Pendleton County *Are You a Bethiever*

3rd Stephanie Rollyson Clay County *Do White Candles Burn Faster Than Colored?*

Division II, Mathematics and Data

1st Amelia Mills Berkeley County *Logic or Lucky: Wordle Probability*

2nd Gabriel Floyd Wood County *Game Theory*

3rd Wyatt Lamb Webster County *Paper vs.iPad*

Division II, Medical Sciences

1st Danica Reed Jefferson County *Surface Germs*

2nd Aubrey Welch Kylee Barr Preston County *What's on the Surface*

3rd Jayden Mathew Wood County *Does exercise skimp with age?*

Division II, Physics and Astronomy

1st Yashmit Panta Raleigh County *Science of Energy Demonstrated by a Yo-yo*

2nd Cooper Withrow Mason County *The Pressure Is On*

3rd Ainslie Koreski Wood County *Just A Swinging*

Division II, Plant Science

2nd Milea Miihlbach Jackson County *How soil affects plant growth*

3rd Knox Kelly Mineral County *How Much is Too Much?*

Division II, Technology

1st James D'Eramo Wood County *Wacky WiFi*

2nd Levi Chapman Braxton Pace McDowell County *Stress Level*

3rd Breslyn McCoy Christee Coleman Jefferson County *Human versus AI*

Division III, Animal Sciences

1st Lexi Harper Kanawha County *Do Pollinator Gardens Require Maintenance in Order to Increase Pollinator Population?*

2nd Joselyn Smith Morgan County *Operation Ant Elimination*

3rd Keandra Cochran Berkeley County *Guess Who Has the Most Unique Face?*

Division III, Behavioral and Social Sciences

1st Samantha Mallow Josie Dillow Berkeley County *The Heart Pounding Effects of Classroom Tasks*

2nd Stella Rubi Harrison County *Under Pressure*

3rd Juliette Sakho Glory Chi Berkeley County *Check the Tip*
Magdalyn Smith

Division III, Biochemistry

2nd Neha Chandrasekar Kanawha County *The Physiochemical Properties of Over-the-Counter Glucose Tablets*

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3rd Conner Myers Tristan Rucker Jefferson County *The 5-Second Rule*

Division III, Biomedical and Health Sciences

1st Levi Yoder Preston County *How Age Affects Dexterity*
2nd Evelyn McKinney Karlee Lusk Wyoming County *How Does Smoking Affect Lung Capacity?*
3rd Isabella Gillispie Miranda Smith Mason County *Hearts and Minds*
Austin McDade

Division III, Biomedical Engineering

2nd Alice Petry Berkeley County *Catching the Criminal with Gel Electrophoresis*

Division III, Cellular and Molecular Biology

1st Manvitha Sanjaya Kanawha County *DNA Damage and Repair Mechanism in Duckweed (Spirodela polyrhiza) Under Ultraviolet Radiation (UV-B) Stress*

Division III, Chemistry

1st Casch Crites Porter Lott Mineral County *Hydrogen Production*
2nd Chastity Brockett Jackson County *Water You Drinking?*
3rd Valencia Kennedy Coleman Cook McDowell County *Before and After Stain Disaster*

Division III, Computational Biology and Bioinformatics

2nd Joyce Hu Monongalia County *Damage Control: How the Alpha/Beta Ratio Affects the EQD2 Dose*

Division III, Earth and Environmental Sciences

1st Drew Cardis Louisa Pate Jefferson County *Water Pollution's Effect on Yeast*
2nd Ollie Morrison Berkeley County *West Virginia Easter Panhandle Soil Sedimentation Rates*
3rd Brayden Collins Mason County *Water Filtration for Survival*

Division III, Embedded Systems

1st Emily Lyons Lauren Staton Wyoming County *The Ultimate Guide to Sensory Accuracy*

Division III, Energy: Sustainable Materials and Design

1st Spencer Rhodes Alexander Horevay Mineral County *Windy Energy*

Division III, Engineering Technology: Statics and Dynamics

1st Smit Babariya James Lewis Wood County *Reach Into The Mind Phase 2*
Blake Riggs
2nd Michael McGraw Jackson County *Unique approach to the engineering design process*
3rd Maya Panta Raleigh County *Geothermal Energy: America's Untapped Giant?*

Division III, Environmental Engineering

2nd Ethan White Preston County *StreampH Exploring Acidity*
3rd Dharani Thangasamy Kanawha County *The Effect of Ectomycorrhizal Symbiosis with Lavender in Heavy Metal Bioremediation*

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Division III, Materials Science

3rd Lillian Riner Jefferson County *No More Wet Heads*

Division III, Mathematics

1st Austin Luo Monongalia County *Injective Chromatic Index of Packet Radio Networks: Improved Upper Bounds*

Division III, Microbiology

1st Vinu Chandrasekar Kanawha County *Does Escherichia Coli Grow Better in Conditions With Organic or Conventional Egg Yolks in Media?*

2nd Alana O'Sullivan Jorja Plitong Berkeley County *Glove Wars*

Division III, Physics and Astronomy

1st Lauren Shen Monongalia County *Two-Step X-Ray Transit Identification: Bayesian Block Simplification and Sequential Machine Learning Techniques*

2nd Shrihan Malkaram Kanawha County *Determining the Composition of Asteroids Using Computer Science*

3rd Jaxon Milam Ohio County *Radio Emissions of Celestial Bodies*

Division III, Plant Sciences

2nd Holden Custer Berkeley County *Hopping Up the Growth Charts*

3rd Mollie Dorsey William Jarvis Nicholas County *The Effect of Water Content on Plant Growth*
Matilda Rodebaugh

Division III, Robotics and Intelligent Machines

1st Shawn Li Monongalia County *Teaching TurtleBots to Play Air Hockey: An Imitation Learning Approach*

Division III, Systems Software

1st Sydney Bostic Berkeley County *Bridging the Gap using Edtech and AI: Language Proficiency Enhancement*

2nd Alexis Atkins Wood County *Encrypt and Decrypt: Using Python to Automate a Substitution Cipher*

Division III, Translational Medical Sciences

2nd Gabrielle Jefferson Lily Finley Mason County *Natural vs Manmade Antibacterials*

3rd Ryan Chen Monongalia County *PHQ-ADS Mental Health Analysis of Morgantown Students*