

West Virginia State Science and Engineering Fair

OFFICIAL RESULTS

March 6, 2023

Division I, Animal Science

1st	Quincy Jesser	Wood County	<i>Can I collect and see my DNA at home?</i>
2nd	Sophia Schoolcraft	Greenbrier County	<i>Eggs and Tooth Erosion</i>
3rd	Savannah White	Berkeley County	<i>Paw Dominance in Dogs</i>

Division I, Behavioral and Social Sciences

1st	Arabella Webb	Greenbrier County	<i>A Fragrance to Remember?</i>
2nd	Abigail Stollings	Boone County	<i>Music Lights up the Brain</i>
3rd	Isaac Riffe	Mercer County	<i>Video Games and Vitals</i>

Division I, Chemistry

1st	Jaxon Dolan-White	Greenbrier County	<i>Rusting Away: How Acids Affect The Rate of Corrosion</i>
2nd	Dawson Fluharty	Wood County	<i>Let's Iron This Out</i>
3rd	Peyton Blount	Ohio County	<i>Diaper Dissection</i>

Division I, Earth and Environmental Sciences

1st	Hailey Williams	Greenbrier County	<i>West Virginia Water Science</i>
2nd	Amelia Mills	Berkeley County	<i>Does UPF Swimwear Really Block UV Rays?</i>
3rd	Skylar Barker	Boone County	<i>Trash Talk: Recycling & Waste</i>

Division I, Energy

1st	Jackson Isenberg	Greenbrier County	<i>Better Batteries</i>	
2nd	Michaelan Wolfe	Harrison County	<i>Poop Power</i>	
3rd	Cooper Withrow	Addison Withrow	Mason County	<i>Lemon Battery</i>

Division I, Engineering

1st	Isaac Spurling	Harrison County	<i>Incandescent Lightbulb</i>
2nd	Elijah Casto	Wood County	<i>The Effect of Bridge Design on Weight Bearing Capacity</i>
3rd	Lyric Carter	Mercer County	<i>Cardboard Vending Machine</i>

Division I, Mathematics and Data

1st	Levi Blain	Jackson County	<i>Popcorn</i>
2nd	Vada Walsh	Preston County	<i>Card Shuffle</i>
3rd	Harrison Gwinn	Greenbrier County	<i>Fingerprint Investigation</i>

Division I, Physics and Astronomy

1st	Madelyn Rittenhouse	Pocahontas County	<i>Balloon</i>
2nd	Preston Stover	Raleigh County	<i>Nerf or Nothing?</i>
3rd	Noah Bolyard	Wood County	<i>Does surface matter?</i>

Division I, Plant Science

1st	Addison Plum	Ashden Plum	Preston County	<i>Growing Plants with Various Liquids</i>
	Kyra Spiker			
2nd	Nola Smith		Wood County	<i>Does temperature impact pumpkin slices over time?</i>
3rd	Greyson Beckman		Morgan County	<i>Miracle Berry</i>

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Division I, Technology

2nd	Annaleigh Merritt		Greenbrier County	<i>Art Bot Kinetics</i>
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Division II, Animal Science

1st	Hazel Hitt		Jefferson County	<i>Lanternflies Surprise!</i>
2nd	Madeline Burns	Julia Brown	Pocahontas County	<i>Dominant Paw: Are Dogs Lefties or Righties?</i>
3rd	John Fernald	Lauren Fernald	Raleigh County	<i>Can Silkworms spin colored silk?</i>

Division II, Behavioral and Social Sciences

1st	Gabe Floyd		Wood County	<i>Memory Game</i>
2nd	Zayden McClurg	Miriam Spencer	Tucker County	<i>The Effects of Colors on Test Scores</i>
3rd	Karsyn Paynter	Shay Bailey	Wyoming County	<i>Five Second Rule</i>
	Sarah Lilly			

Division II, Chemistry

1st	Izzy Earley		Wood County	<i>Plastics</i>
2nd	Lillian Barkley	Abby Culp	Morgan County	<i>Discovering the Hidden Colors in Leaves</i>
	Abigail Close			
3rd	Kaelyn Williams	Kyanna Williams	Harrison County	<i>Salt: The Enemy of Snow Days</i>

Division II, Earth and Environmental Sciences

1st	A.C. Ritchie		Tucker County	<i>Don't Sneeze On Me</i>
2nd	Braylen Blowe		Mineral County	<i>Dissolved Oxygen</i>
3rd	Skylar Bonnette		Wood County	<i>Oil Spills</i>

Division II, Energy

1st	Tristan Wilson		Berkeley County	<i>Faucet Fuel</i>
2nd	Parker Stotler		Morgan County	<i>Can the Color of Your House Reduce Your Energy Footprint?</i>
3rd	Quinn Bolyard		Wood County	<i>Let's Build a Fire</i>

Division II, Engineering

1st	Jonah Mays		Boone County	<i>Hello Again, Pepper's Ghost! Shaping our Future with Holograms</i>
2nd	Lilly McCoy	Hayden Bragg	Wyoming County	<i>Hovercraft</i>
3rd	Blake Oliver		Marshall County	<i>Model Rocket Safety Methods</i>

Division II, Material Science

1st	Hayden Harvey		Marshall County	<i>What Drink Has the Most Electrolytes?</i>
2nd	Lucas Stewart	Jamason Pearson	Mason County	<i>Tensile Strength - Does Cost Matter</i>
3rd	Ava Cottrell		Boone County	<i>How Temperature Affects the Curing of Concrete</i>

Division II, Mathematics and Data

1st	Zane Gast		Marshall County	<i>Quest for the Net</i>
2nd	Emma Higginbotham	Maddox Mayes	Berkeley County	<i>Pop It Like Its Hot</i>

Division II, Medical Sciences

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1st	Max Lowe	Mason Janney	Berkeley County	<i>Kicking with Caffeine</i>
2nd	Kayleigh Jo Mays		Boone County	<i>Sound Science</i>
3rd	Gracyn Murrin		Marshall County	<i>Household Germs</i>

Division II, Physics and Astronomy

1st	Yara Rifai		Raleigh County	<i>What do you know about magnets?</i>
2nd	Elizabeth Huffman	Shelby Runion	Grant County	<i>Does Weight Matter?</i>
3rd	Thomas Arbogast Steven Queen	Morgan Beverage	Pocahontas County	<i>Which Mass of Arrow Heads Penetrates the Deepest</i>

Division II, Plant Science

1st	Mikhail Shakirov		Cabell County	<i>Can Culinary Plants Help Fight Bacteria Infections?</i>
3rd	Jacob Smith-Tatham		Preston County	<i>How Does Light Affect Plants?</i>

Division II, Technology and Systems

2nd	Nihan Cicek		Berkeley County	<i>Identifying "Rock-Paper-Scissors" Signs through Machine Learning</i>
3rd	Calista Bachert	Brielle Lyons	Wyoming County	<i>Which Wi-Fi is Better?</i>

Division III, Animal Sciences

1st	Taryn Veltri		Preston County	<i>Pip. Zip. POP!</i>
2nd	Neha Chandrasekar	Archana Krishnathas	Kanawha County	<i>Microsatellite identification of species in the genus Lepomis</i>
3rd	Savannah Smoot Charleigh Price	Madison Clark	Wyoming County	<i>Can Robo Roaches Change the Future?</i>

Division III, Behavioral and Social Sciences

1st	Abigail Snider		Berkeley County	<i>Facial Recognition: The Impact of Age When Identifying People Who Have Altered Their Hairstyle (Young or Old Eyes. . .Who Best Spots the Disguise?)</i>
2nd	Marcos Kniska		Monongalia County	<i>Visual Search</i>

Division III, Biochemistry

1st	Jackson Morrison		Berkeley County	<i>Uncovering Hidden Sugars in Foods</i>
2nd	Gabrielle Jefferson Chaz Tilka	James Adkins	Mason County	<i>Gel Electrophoresis DNA Analysis</i>

Division III, Biomedical and Health Sciences

1st	Kaden Hayes		Preston County	<i>Reaction Time: Was it: "Mint" to Make Me Faster?</i>
2nd	Celena Brown		Mason County	<i>How the Brain Reads</i>
3rd	Claire Coleman		Berkeley County	<i>Which Ingredient in Hand Moisturizer Works the Best?</i>

Division III, Cellular and Molecular Biology

1st	Jeeya Patel		Kanawha County	<i>Consequences of dot - 1.1 on germ cell components in Caenorhabditis elegans</i>
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2nd Claire Salisbury Cabell County *Anti-Bacterial Coating; Is it Possible?*

Division III, Chemistry

1st Lauren Shen Monongalia County *Assessing the Habitability of Exoplanets: An Integrated Framework Incorporating Similarity Evaluation and Kinetic Theory of Atmospheric Gases*

2nd Luke Murphy Raleigh County *Starlite: The Lost Super Material*

3rd Savannah Decker Payton Barnitz Mason County *Salt & Ice*

Division III, Computational Biology and Bioinformatics

1st Douglas Liu Monongalia County *Examining the Relationship Between Air Pollution and Lung Cancer Deaths*

Division III, Earth and Environmental Sciences

1st Lexi Harper Kanawha County *Habitat for Bats: Will Creating a Bat Sanctuary Increase the Bat Population*

2nd Andrew Stone Jefferson County *Mealworms and Styrofoam*

3rd Michael Romano Harrison County *Trash the Ash*

Division III, Energy: Sustainable Materials and Design

2nd William Waddy Grant County *Electric vs Diesel*

3rd Jeremy Sisler Preston County *Do Different Dyes Affect the Solar Efficiency of Dye-Sensitized Solar Cells?*

Division III, Engineering Technology: Statics and Dynamics

2nd Maya Panta Raleigh County *Powering our House with Water*

3rd Nadia Madenspacher Sophie Carpenter Berkeley County *Bridging the Gap*

Division III, Environmental Engineering

2nd Olivia Chilcott Berkeley County *Solar Powered Water Desalination*

3rd Makenna Hull Mason County *Is the Ionizer the Better Purifier*

Division III, Materials Science

1st Noemi Azzani Averiana Keys Berkeley County *Acid Rain vs Roofing Materials*

Division III, Microbiology

2nd Izzy Miller Addison Payne Berkeley County *Zapping the Zit: Which Acne Medication is Most Effective*

Division III, Physics and Astronomy

1st Keira Tatterson Addison Burt Mason County *Does Air Pressure Matter?*

2nd Ian Saylor Berkeley County *The Performance of Thicker Arrows vs. Skinny Arrows*

Division III, Plant Sciences

2nd Danica Stoffer Ohio County *Comparison of Photosynthesis Rate for Natural Sunlight vs. Artificial Light at 5000K, 2850K, 2700K, and Light Temperature*

3rd Vinu Chandrasekar Kanawha County *How does arsenic affect plant growth?*

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Division III, Systems Software

1st	Smit Babariya Blake Riggs	James Lewis	Wood County	<i>Reach Into The Mind</i>
2nd	Sydney Bostic		Berkeley County	<i>Ophidia Vision: Inside the Terrarium Lab</i>
3rd	Grace Yan		Monongalia County	<i>Yellow to Green: An Unsupervised Machine Learning Approach to Bus Route Redistribution</i>