

ACCESS Science Fair Prizes

Key: APS = Akron Public Schools Science, Technology, Engineering and Math EXPO
 Dist5 = Western Reserve District 5 Science Day
 MS = Middle School; HS = High School

| Year | Event | Level | Winner(s) | Project Title | School | Grade |
|------|-------|-------|--|---|----------------------------|-------|
| 2022 | APS | MS | Kasey Romero, Teela Watson, Jessica Hupcej | Viewing and Measuring Sound Waves with an Oscilloscope | Hyre CLC | 7 |
| 2022 | APS | HS | Avery Simmons | What Components Allow for Water to Filter the Best? | Ellet CLC | 9 |
| 2022 | Dist5 | MS | Omar Elbadawy | Eco-friendly Concrete—The Effects of Plant-based and Plastic Admixtures on Its Mechanical Properties | Birchwood School of Hawken | 8 |
| 2022 | Dist5 | HS | Bryn Morgan | A Modern, Software-Based Approach to Celestial Navigation | West Geauga HS | 11 |
| 2021 | APS | MS | Isabelle Strobel | Alice's Arm | NIHF STEM | 8 |
| 2021 | APS | HS | Korey Suansing | Forensic Science—Building Your Own Tool for Identifying DNA | Ellet CLC | 9 |
| 2021 | Dist5 | MS | Omar Elbadawy | Bioplastic: An Investigation of the Relationship between Bioplastic Composition, Tensile Strength and Flexibility | Birchwood School of Hawken | 7 |
| 2021 | Dist5 | MS | Matthew Pafford | Investigating the Effect of Potential Energy on an Airplane Flight | Incarnate Word Acad | 7 |
| 2021 | Dist5 | HS | Audrey Zorman | Influence of Carbon-Black Concentration on Electrical and Mechanical Properties of a Silicone Composite | Beaumont School | 12 |
| 2021 | Dist5 | HS | Destynn Keuchel | Improving the Antimicrobial and Filtration Effectiveness of Face Masks | Hawken School | 11 |
| 2020 | Dist5 | MS | Isabella Rambler | Not Fake News: Climate Change is Real | NIHF STEM | 8 |
| 2020 | Dist5 | MS | Sasha Taylor | How Humidity Affects Strands of Hair | NIHF STEM | 8 |
| 2020 | Dist5 | HS | Zuha Jaffar | Localized Dual Cancer Drug Delivery from Affinity-Based Devices | Hathaway Brown | 11 |
| 2020 | Dist5 | HS | Alex devine | Sunscreen to Solar Power: Creating and Testing a Zinc Oxide Dye Sensitized Solar Cell | Univ. School College Prep | 10 |
| 2019 | APS | MS | Danelle Byun-Johnson | In the World of Bugs | Miller South CLC | 8 |
| 2019 | APS | HS | Hannah Adams-Gemmell | The Effect of Oxybenzone, Octocrylene and Reef Safe Sunscreen on Bioluminescent Dinoflagellates | Firestone CLC | 10 |
| 2019 | Dist5 | MS | Gabrielle Shainoff | 9 Ways Immersed: A Paper Towel Absorbency Experiment | St Rita MS | 8 |
| 2019 | Dist5 | MS | Nicholas Grizer | Acid Rain: Impact on Construction Material | St Sebastien | 8 |
| 2019 | Dist5 | MS | Lanelle Butler | Battery Cents | Noble Acad | 7 |
| 2018 | APS | MS | Sandy Gao | Investigating Boat Keels | Jennings CLC | 8 |
| 2018 | APS | HS | George Hernandez, Dylan West | Oobleck | Buchtel CLC | 10 |
| 2018 | Dist5 | MS | Arya Sambandan | Cyber Security Vulnerabilities in Connected Medical Devices | Solon HS | 9 |

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| 2018 | Dist5 | HS | Sean Scarnecchia, Jack Hakes | Assisting ESL Student's Vocabulary Through Technology | Hudson HS | 11 |
| 2017 | APS | MS | Stella Hudson | Which One Has More Bacteria: Your Mouth or Your Skin | Miller South School | 8 |
| 2017 | APS | HS | Carly Justice | Traffic Safety: Best Retroreflective Colors for Elderly Drivers at Night | Firestone CLC | 11 |
| 2017 | Dist5 | MS | Emma Noffsinger | The Affects of pH and Rainfall upon Biodegradable Trash Bags and Brown Paper Trash Bags: A Global Study | Roswell Kent MS | 9 |
| 2017 | Dist5 | HS | Molly Haines | Poly(ester urea)s for Soft Tissue Repair | St Vincent / St Mary | 12 |
| 2016 | APS | MS | Sophia Anderson, Riley Stevens | Effects of Caffeine | Miller South School | 8 |
| 2016 | APS | HS | Ashley Hubbard, Arianna Petric | Construction Conundrum | Akron Early College HS | 12 |
| 2016 | Dist5 | MS | Patrick Li | Smart Midnight Care | Hudson MS | 8 |
| 2016 | Dist5 | HS | Abigail Volk | Layer-by-Layer Fabrication of Polymer Films inspired by the Lotus Leaf | St Vincent / St Mary | 12 |
| 2015 | APS | MS | Maximlian Chmura | Increasing Tactile Sensation to Improve Letter Recognition and Recall in Dyslexic Students | NIHF STEM | 9 |
| 2015 | APS | HS | Jackson Tankersley | The Antibacterial Effect of Green Coconut Wate | NIHF STEM | 10 |
| 2015 | Dist5 | MS | Katie Arendt | Do the Active Ingredients Affect the Hold Time of Hairspray? | Incarnate Word Acad | 8 |
| 2015 | Dist5 | HS | Elizabeth McDermott | The Effect of Substrate Concentration, Temperature, and pH on Enzyme Activity | Beaumont HS | 10 |
| 2014 | APS | MS | Dawson Bunner | A Pencil Dimmer Switch | NIHF STEM | 7 |
| 2014 | APS | HS | Birman Gomden, Tara Biswa | Germes of North High School | North HS | 10 |
| 2014 | Dist5 | MS | Ian Mail | Comparing Altitude of Dimpled Nose Cone Rockets with Dimpled and Smooth Body Tubes | Stanton MS | 8 |
| 2014 | Dist5 | HS | Yennmay Chia | Maximum Power Point Tracking, Load Resistance, and Solar Irradiation Profiles Effects on Solar Panels | Beaumaont HS | 12 |
| 2013 | APS | MS | Benjamin Pontius | Mobile Bicycle Generator for a Hand Held Device | Miller South | 8 |
| 2013 | APS | HS | Alena Veigl | How Temperature and Time Affect the Decomposition of Hydrogen Peroxide | Firestone HS | 11 |
| 2013 | Dist5 | MS | Jacob Brawley | Soil Liquefaction | Stanton MS | 7 |
| 2013 | Dist5 | HS | Derek Whiddon | Finding the Most Effective Percent Composition of Hydrophilic and Hydrophobic Polymer Nanofibers to Yield Bacterial Resistance | St. Vincent – St. Mary | 12 |
| 2012 | APS | MS | Jacob Rich | Microbiology of Household Bacteria, What is Living with You? | NIHF School | 7 |
| 2012 | APS | HS | Alena Veigl | Determining Sugar Content through It's Refractive Index | Firestone HS | 10 |
| 2012 | Dist5 | HS | Mitchell Pallaki | The Optimal Wind Farm Configuration Analysis | St Raphael S | 9 |
| 2011 | APS | MS | Cambria Barkley | Stealthy Shapes (To Make an Aircraft Invisible) | NIHF School | 8 |

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| 2011 | APS | HS | Ashley Nichols, Jaquea Latimer | When Mold Attacks | East CLC | 11 |
| 2011 | Dist5 | HS | Leat Perez | Killer Immunoglobulin-like Receptors (KIR) Gene Polymorphism and BKV Infection in Post-transplant Kidney and Kidney/Pancreas Recipients | Beaumont HS | 12 |
| 2010 | APS | MS | Connor Seitzinger | Fact or Fiction | NIHF School | 6 |
| 2010 | Dist5 | HS | William Jack | Effects of an Outer Grid on an Inertial Electrostatic Confinement Fusion Reactor | Hudson HS | 9 |
| 2009 | APS | HS | Jonathon Stone | DNA Extraction and Analysis of Dormant Acer Saccharum Marsh Seeds | St Vincent – St May HS | 11 |
| 2009 | Dist5 | HS | Abigail Tanner | The Dissolution Rates in Fluorescein in PCL, Tecophilic and PEO Nanofibers | St Vincent – St May HS | 12 |
| 2008 | APS | MS | Rachel Weibel | The Secrets of Sanitation (Reducing Bacteria Growth) | Litchfield MS | 8 |
| 2008 | Dist5 | HS | Surat Tallamraju | Extracting Oil from Algae: A Study of Variables affecting Oil Concentration | Solon HS | 11 |
| 2007 | APS | MS | Kaelyn Quinn | Polymer Possibilities | Miller South | 8 |
| 2007 | Dist5 | HS | Ellen Pifer | Structural Dynamics | Beaumont HS | 11 |
| 2006 | APS | HS | Ryan Brosnahan, Justin Perry | Biodiesel Production by Transesterification using Native and Solublized Lipase Enzyme | Firestone HS | 12 |
| 2006 | Dist5 | HS | Alexandria Sadasivan | The Sanitary Napkin Absorbency Winner Is... | Incarnate Word Acad | 9 |
| 2005 | APS | HS | Emre Kugouglu, Sae-Jin Chung | How Strong Are Adhesives Really? | Firestone HS | 11 |
| 2005 | Dist5 | HS | Jacob Clark | Ethanol Production from the Fermentation of Food Waste | Wlash Jesuit HS | 9 |
| 2004 | APS | MS | Michael Musarra | Pendulums: Length vs Weight | Miller South | 8 |
| 2004 | Dist5 | HS | Rebecca Ussai | Which Type of Bridge is Stronger | Beaumont HS | 10 |
| 2003 | APS | HS | Zenon Mural | Polarization and Stress Analysis of Airplane Windows | St Josephat | 8 |
| 2003 | Dist5 | HS | Robert Holmes | Ancient vs. Modern Medicine | Central Hower HS | 9 |