



2021 SPONSORED AWARDS



[Akron Council of Engineering and Scientific Societies (ACCESS)]

Award Info.	First Name	Last Name	Grade	School	Project Title
Best Overall Middle School (\$50): 1st	Omar	Elbadawy	7	Birchwood School-Cleveland	Bioplastic: An Investigation of the Relationship between Bioplastic Composition, Tensile Strength, and Flexibility
Best Overall Middle School (\$50): 2nd	Matthew	Pafford	7	Incarnate Word Academy-Parma Hts	Investigating the Effect of Potential Energy on Airplane Flight
Best Overall High School (\$50): 1st	Audrey	Zorman	12	Beaumont School-Cleveland Hts	The Influence of Carbon-Black Concentration on the Electrical and Mechanical Properties of a Silicone Composite
Best Overall High School (\$50): 2nd	Destynn	Keuchel	11	Hawken School-Gates Mills	Improving the Antimicrobial and Filtration Effectiveness of Face Masks

[American Chemical Society]

Award Info.	First Name	Last Name	Grade	School	Project Title
ACS BEST Chemistry Award - HS (\$100)	Ryan	McGinnis	12	West Geauga HS-Chesterland	Gelatinization and Hysteresis of Organic Compounds to Create Edible Shelf Stable Adhesives
ACS BEST Chemistry Award - MS (\$100)	Diego Leonardo	Coutino Granados	8	Stanton MS-Kent	Chocolate Soft Lithography

[American Society of Mechanical Engineers (Akron section)]

Award Info.	First Name	Last Name	Grade	School	Project Title
Best Mechanical Eng. Project - MS (\$50)	Samuel	Mather	6	Menlo Park Academy-Cleveland	HAK Sink or Float 2
Best Mechanical Eng. Project - MS (\$50)	Mahee	Shah	8	Hathaway Brown-Shaker Hts	The Effect of Piston Ratio Contrasts on the Optimum Height of a Hydraulics Model

[Ohio Tuition Trust Authority]

Award Info.	First Name	Last Name	Grade	School	Project Title
Primary Award (\$250)	Nicholas	DiTirro	8	The University School-Shaker Hts	Comparing the Effectiveness of Password Policies Using Statistical Analysis
Primary Award (\$250)	Isabelle	Strobel	8	National Inventor's Hall of Fame MS-Akron	Alice's Arm: Building a Myoelectric Prosthetic In Honor of a Friend
Alternate (\$25 and up to \$250)	Leland	Fan	5	Menlo Park Academy-Cleveland	Fruit Energy
Alternate (\$25 and up to \$250)	Claire	Kinkelaar	8	St Sebastian-Akron	HEAT IT UP! How heat affects proteolytic enzymes



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[ONR - Office of Naval Research]

Award Info.	First Name	Last Name	Grade	School	Project Title
\$50, Certificate, & Medallion - HS	Alex	Kmetko	11	The University School-Chagrin Falls	Supporting a Wing with Hexagons in Order to Make It Lighter and Stronger
\$50, Certificate, & Medallion - HS	Jae-Hoon	Smith	11	The University School-Chagrin Falls	The Effect of Different Fin Geometries on the Flight of a Rocket
\$50, Certificate, & Medallion - HS	Audrey	Zorman	12	Beaumont School-Cleveland Hts	The Influence of Carbon-Black Concentration on the Electrical and Mechanical Properties of a Silicone Composite
Certificate, & Medallion - MS	Omar	Elbadawy	7	Birchwood School-Cleveland	Bioplastic: An Investigation of the Relationship between Bioplastic Composition, Tensile Strength, and Flexibility
Certificate, & Medallion - MS	Daniel	Maddox	6	St Raphael-Bay Village	Cracking the Code of Corrosion: The Effects of Liquid Solutions on the Corrosion of Iron

[Society of Plastics Engineers, Akron Chapter]

Award Info.	First Name	Last Name	Grade	School	Project Title
\$50 Best Plastics-related Project HS	Audrey	Zorman	12	Beaumont School-Cleveland Hts	The Influence of Carbon-Black Concentration on the Electrical and Mechanical Properties of a Silicone Composite
\$50 Best Plastics-related Project HS	Nic	Vucenovic	10	The University School-Chagrin Falls	Alternative Drying Techniques of Silica Aerogels
\$50 Best Plastics-related Project MS	Aanya	Lakireddy	7	Birchwood School-Cleveland	Filtering Micro Plastics Using Micron Nylon Filter

[ASQ - (American Society of Quality) Section 810]

Award Info.	First Name	Last Name	Grade	School	Project Title
Best Quality-related Projects	Dylan	Berr	11	The University School-Chagrin Falls	Strengthening Hydrophilic, Biodegradable Materials Using Chitosan and Cellulose
Best Quality-related Projects	Michelle	Park	11	Solon HS-Solon	A Novel Method for Identifying Kepler Exoplanet Habitability Using Python-Based Analysis of Standardized Transit Light Curves and Calculated Parameter Values
Best Quality-related Projects	Nicholas	DiTirro	8	The University School-Shaker Hts	Comparing the Effectiveness of Password Policies Using Statistical Analysis
Best Quality-related Projects	Rachael	Tomasko	12	Padua Franciscan-Parma	The potential of Elophila oblitalis larvae (waterlily leafcutter moth) as a biological control for the invasive aquatic plant Nymphoides peltata (yellow floating heart)
Best Quality-related Projects	Carlirina	Andrada	12	Mentor HS-Mentor	Maintaining Sobriety based on the Change in Treatment Program and the Ability to Regain Access to Treatment of Opioid Use Disorder in the Midst of COVID-19
Best Quality-related Projects	Jacob	Rintamaki	11	Westlake HS - Westlake	Deep-Learning Analysis of Extreme Climate Events to Predict Future Losses for Wheat in Kansas