



# 2022 SPONSORED AWARDS



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

Award Info.	First Name	Last Name	Grade	School	Project Title
Best Overall Middle School (\$100)	Omar	Elbadawy	8	Birchwood School of Hawken-Cleveland	Eco-friendly Concrete –The Effects of Plant-based and Plastic Admixtures on Its Mechanical Properties
Best Overall High School (\$100)	Bryn	Morgan	11	West Geauga High School - Chesterland	A Modern, Software-Based Approach to Celestial Navigation

## [ Akron Section of American Chemical Society (ACS) ]

Award Info.	First Name	Last Name	Grade	School	Project Title
High School Award (\$100)	Destynn	Keuchel	12	Hawken School - Chesterland	Deployment of Thermoplastic and Thermosetting Technologies to Improve the Durability of Solar Sails
Middle School Award (\$100)	Nicolas	Shang	8	Birchwood School of Hawken - Cleveland	What are the optimal variations in the different factors in the dyeing process of fabrics so that optimal efficiency can be achieved?

## [ Institute of Electrical & Electronics Engineers (Akron-Canton section) (IEEE) ]

Award Info.	First Name	Last Name	Grade	School	Project Title
Best High School Project (\$50)	Kareem	Fareed	10	The University School - College Prep - Chagrin Falls	Using a Convolutional NN to Diagnose Parkinson's Disease
Best High School Project (\$50)	Carlton	Cort	12	The University School - College Prep - Chagrin Falls	Designing and Testing a Prototype Automatic Electronic Control System for Active Magnetic Levitation of a Ferromagnet Toward Magnetically Deflected Ballistic Mass Technology
Best Middle School Project (\$50)	Ian	Brohier	8	The University School - Shaker Heights	Quantifiable Humanity and Artificial Intelligence in Chess
Best Middle School Project (\$50)	Bryon	Morton	8	St Paschal Baylon - Cleveland	Password Security: How Easily Can Your Password Be Hacked?

## [ Ohio Water Environment Association (Northeast section) (NESOWEA) ]

Award Info.	First Name	Last Name	Grade	School	Project Title
First Place (\$100)	Nandita	Srikumar	8	Solon Middle School - Solon	Effect of Activated Carbon on Water Filtration



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## [ ONR - Office of Naval Research ]

Award Info.	First Name	Last Name	Grade	School	Project Title
\$50, Certificate, & Medallion - HS	Aaron	Velez	9	The University School - College Prep - Chagrin Falls	The Effects of Ocean Acidification on Bioluminescent Sea Creatures
\$50, Certificate, & Medallion - HS	Ryan	McGinnis	12	West Geauga High School - Chesterland	Electrolysis of Polylactic Acid (PLA) for Custom Fabrication of Sustainable Electromagnets
\$50, Certificate, & Medallion - HS	Carlton	Cort	12	The University School - College Prep - Chagrin Falls	Designing and Testing a Prototype Automatic Electronic Control System for Active Magnetic Levitation of a Ferromagnet Toward Magnetically Deflected Ballistic Mass Technology
Certificate, & Medallion - MS	Jasmine	Chen	8	Birchwood School of Hawken - Cleveland	Making Bioplastic Bags
Certificate, & Medallion - MS	Jacob	Khaykin	8	Solon Middle School - Solon	Testing Radiation
Certificate, & Medallion - MS	Owen	Pry	7	St Brendan - North Olmsted	Which Liquids Are Most Corrosive?

## [ Ohio Soybean Council ]

Award Info.	First Name	Last Name	Grade	School	Project Title
Bioscience Award \$100	Isabella	Doss	6	Holy Family - Stow	The Effects of Soil Based Probiotics on Soybean Growth
Bioscience Award \$100	Anya	Lakireddy	8	Birchwood School of Hawken - Cleveland	How Do Rising Carbon Dioxide Levels Affect Plant Germination?
Bioscience Award \$100	Aashvi	Jagetia	8	Hathaway Brown - Shaker Heights	The Effect of Forest Fires on Seed Germination

## [ Society of Plastics Engineers, Akron Chapter (SPE) ]

Award Info.	First Name	Last Name	Grade	School	Project Title
\$50 Best Plastics-related Project HS	Destynn	Keuchel	12	Hawken School - Chesterland	Deployment of Thermoplastic and Thermosetting Technologies to Improve the Durability of Solar Sails
\$50 Best Plastics-related Project HS	Grace	Chen	11	Mentor High School - Mentor	The Effects of Pyrolysis on Upcycling Polyvinyl Chloride (PVC) in Gloves Through Reattaining Hydrochloric Acid (HCl) For Higher-Value Applications
\$50 Best Plastics-related Project HS	Regan	Houser	10	St Vincent St Mary - Akron	Before It Was Cool
\$50 Best Plastics-related Project MS	Omar	Elbadawy	8	Birchwood School of Hawken-Cleveland	Eco-friendly Concrete -The Effects of Plant-based and Plastic Admixtures on Its Mechanical Properties



# 2022 SPONSORED AWARDS



## [ Ohio Tuition Trust Authority ]

Award Info.	First Name	Last Name	Grade	School	Project Title
Primary Award (\$250)	Omar	Elbadawy	8	Birchwood School of Hawken - Cleveland	Eco-friendly Concrete –The Effects of Plant-based and Plastic Admixtures on Its Mechanical Properties
Primary Award (\$250)	Nandita	Srikumar	8	Solon Middle School - Solon	Effect of Activated Carbon on Water Filtration
Alternate (\$25 and up to \$250)	William	Miller	8	The University School - Shaker Heights	Plants in a Future World
Alternate (\$25 and up to \$250)	Christopher	Wang	8	Solon Middle School - Solon	How Bubbles Form

## [ American Society for Quality (ASQ) ]

Award Info.	First Name	Last Name	Grade	School	Project Title
Best Use of Statistics (\$40)	Claire	English	12	Mentor High School - Mentor	The Effects of eIF2A on the Expression of Adipokines in Brown Adipose Tissue of Mice
Best Use of Statistics (\$40)	Destynn	Keuchel	12	Hawken School - Chesterland	Deployment of Thermoplastic and Thermosetting Technologies to Improve the Durability of Solar Sails
Best Use of Statistics (\$40)	Maura	Murray	12	Mentor High School - Mentor	Impact of Different Salinity Salinity Level Concentration on the Growth of Duckweed
Best Use of Statistics (\$40)	John Nathaniel	Shin	11	Hawken School - Chesterland	Utilizing Intelligent Data Partitioning to Improve Machine Learning Models
Best Use of Statistics (\$40)	Grace	Chen	11	Mentor High School - Mentor	The Effects of Pyrolysis on Upcycling Polyvinyl Chloride (PVC) in Gloves Through Reattaining Hydrochloric Acid (HCl) For Higher-Value Applications
Best Use of Statistics (\$40)	Hans	Swain	10	The University School - College Prep - Chagrin Falls	Effect of Excess Dietary Iron on Intestinal Tumorigenesis
Best Use of Statistics (\$40)	Julia	Zhu	10	Hathaway Brown - Shaker Heights	C19orf12 Ablation Caused Mitochondrial Dysfunction and Susceptibility to Ferroptosis in Neuronal Cell Model of MPAN
Best Use of Statistics (\$40)	Alex	Kmetko	12	The University School - College Prep - Chagrin Falls	Testing Hexagon Supports on an Airfoil to Make it Lighter
Best Use of Statistics (\$40)	Yeshwarya	Pakki	12	Mentor High School - Mentor	Effects of Intermittent Fasting on Circadian Rhythm
Best Use of Statistics (\$40)	Harsha	Sanaka	11	Hawken School - Chesterland	Temporal Trends and Disparities in Gastroenterology Care Utilization Before, During, and After COVID-19 Lockdown