



**Ohio Environmental Education Fund  
State Science Day 2016 Award Winners  
Governor's Awards for Excellence in Environmental Protection  
Research**

7<sup>th</sup> Grade

First Place: Ms. Mohini Parvate, Henry Karrer Middle School, Dublin  
*Controlling Algae Growth: To Bloom or Not To Bloom*

Second Place: Ms. Olivia Rademacher, St. Columban, Loveland  
*Think Before You Drink: A Comparison of Water Filtration Methods*

Third Place: Ms. Aileen Bracken, Incarnate Word Academy, Parma Heights  
*Does Fertilizer Improve the Growth Outcome of Hydroponic or Soil Grown Plants Better?*

Honorable Mention: Ms. Evelyn Sarle, St. Paul, Westerville  
*The Effect of Limestone on Pine Trees Treated with Sulfuric Acid*

8<sup>th</sup> Grade

First Place: Mr. Mukund Anand Seshadri, Village Academy, Powell  
*Going Green: Using Plants to Clean Up Gasoline (Phytoremediation of Total Petroleum Hydrocarbons in Gasoline Using Brassica Rapa)*

Second Place: Ms. Kaylie Malloy, St. Mary, Chardon  
*I Have 99 Problems and Microbeads Are 1*

Third Place: Ms. Adriane E. Thompson, Genoa Middle School, Westerville  
*Studying the Mutagenic Effects of Glyphosphate and commercial Herbicide Using the Ames Test*

Honorable Mention: Mr. Ethan Kaper, Liberty Union Middle School, Baltimore  
*The Factors of Corn Germination*



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First Place: Mr. Maximilian J. Chmura, St. Vincent, St. Mary, Akron  
*The Effect of Electric Fields on Reducing Phosphate Runoff from Soybean Farmland*

Second Place: Ms. Swati Bhageria, Sycamore High School, Cincinnati  
*Cost Effective Water Filtration Systems for Rural Areas and Developing Economies*

Third Place: Mr. Travis O'Leary, Carroll High School, Dayton  
*Liquid Nitrogen's Effect On Oil Spills*

Honorable Mention: Mr. Joshua David Alatis, Home Schooled, District 7  
*Testing for Maximized Hydrogen Output Using Differing Sulfate and Chloride Solutions in the Electrolysis of Water*

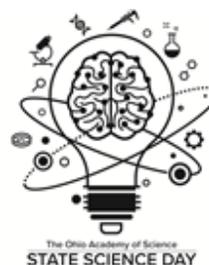
10<sup>th</sup> Grade

First Place: Mr. Akul Rajan, William Mason High School, Mason  
*Mycoremediation and Phytoremediation as a Method to Clean Up Heavy Metal Contamination in Soil and Water*

Second Place: Ms. Alekya Raghavan and Ms. Ahalya Ramesh, William Mason High School, Mason  
*Farm to Fuel: The Efficacy of Biofuels from Agricultural Waste*

Third Place: Mr. Kavin S. Vedamoorthy, New Albany High School, New Albany  
*Enhancement of Crude Oil Phytoremediation Using Biodiesel: A Comparative Assessment of Plant Metabolites*

Honorable Mention: Ms. Jamie C. Bradbury, Geneva High School, Geneva  
*Earthworms in the Treatment of Sewage Sludge*



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First Place: Ms. Abigail L. Myers, Big Walnut High School, Sunbury  
*Arctic Oil Spill Clean-Up: Light vs. Heavy Oil*

Second Place: Mr. Nihar Rama and Mr. Aditya Singh, William Mason High School, Mason  
*Effective Synthesis and Implementation of Organic Bioplastics*

Third Place: Ms. Vanessa S. Frank, Geneva High School, Geneva  
*Organic Filtering of Animal Compost*

Honorable Mention: Mr. Aditya Jog, William Mason High School, Mason  
*Phase Change Material Based Thermal Energy Storage for Higher Efficiency Photovoltaics*

12<sup>th</sup> Grade

First Place: Mr. Alan Fong, Sylvania Southview High School, Sylvania  
*Suitability of ITO as a TCO for Superstrate Configuration Perovskite Solar Cells*

Second Place: Mr. Julian Aaron Liber, Sylvania Southview High School, Sylvania  
*The Relative Biomass Density of Invasive Plant Species in Northwest Ohio*

Third Place: Ms. Shelby M. Dalton, Rock Hill Senior High School, Ironton  
*Water Quality: The Effects of Agricultural Runoff*

Honorable Mention: Ms. Abigail E. Ambrose, River View High School, Warsaw  
*Microbial Catalyst: Finding a Catalyst for a Microbial Fuel Cell*

For more information on these awards, contact:

Ohio EPA, Office of Environmental Education, (614) 644-2873 or [oeef@epa.ohio.gov](mailto:oeef@epa.ohio.gov)