

2011 South Sound Regional Science Fair

High School First Place Awards

Category	Project Title	Name	School	School District
Animal Science	Bivalve Larval Settling Patterns Using In situ Methods in Quartermaster Harbor	Kate Harrison	Bellarmino Preparatory School	Private
Behavioral & Social Sciences	Aspects of Images	Jasjit Basi	Capital High School	Olympia
Biochemistry	What Can Kill Better: The Comparison of Silver and Chlorine When Killing Bacteria in Water	Erdene Enkhzaya	Wilson High School	Tacoma
Earth & Planetary Science	Effects of Geomagnetic Storms	Brandyn Bayes	Frontier Junior High	Bethel
Energy & Transportation	Magnetic Field Highway	Troy Leithead	Wilson High School	Tacoma
Eng: Electrical & Mechanical	Using a Genetic Algorithm to Optimize Robot Navigation	Jill Shah	Olympia High School	Olympia
Eng: Materials & Bioengineering	eHeart: ECG Signal Processing System for Automatic Detection of Cardiac Abnormalities	Vamsi Chunduru	Capital High School	Olympia
Environmental Management	Building Placement Affecting Wind Speed	Toni Cox	Wilson High School	Tacoma
Environmental Sciences	Greener Gas Engines	Amanda Gill	Lakes High School	Clover Park
Microbiology	Entropion Eye Causitive Factors	Aerin Towle	Sumner High School	Sumner
Physics & Astronomy	It's All a Spatter of Opinion	Colette Moss	Lakes High School	Clover Park
Plant Sciences	Cleaning Water With Duckweed	Jesse Gayvoronski	Wilson High School	Tacoma

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Animal Science	Effect of Fertilizer on Brine Shrimp	Samantha Wold	Wilson High School	Tacoma
Behavioral & Social Sciences	Analysis of Risk Factors for Obesity in Washington State High School Students	Ashwin Prakash	Curtis High School	University Place
Biochemistry	Cleansing the Sole: The Affect of Ionic Foot Soak on the Human Body	Natalie Millsap	Wilson High School	Tacoma
Eng: Electrical & Mechanical	Gone With the Wind: Engineering a Car Powered by Wind.	Cooper Eddy	Wilson High School	Tacoma
Eng: Materials & Bioengineering	The In-House Green-House	Elizabeth Withrow	Wilson High School	Tacoma
Environmental Management	A Greasy Situation: How to Prevent Motor Oil from Running Into Storm Drains Using Hydrophobic Sorbents	Giovanna Peitz	Wilson High School	Tacoma
Environmental Sciences	Litter Bug	Elise Wilson	Sumner High School	Sumner
	Roof Water Runoff Filtration	Madisynn Kroll	Wilson High School	Tacoma
Microbiology	Acid Kills: The Effects of Different Acids on Bacteria Growth and Prevention	Joan Vo	Wilson High School	Tacoma
Physics & Astronomy	The One That Got Away!	Colton Kray	Lakes High School	Clover Park
Plant Sciences	The Effects of Gas Stations on Plant Health	Abigail Deaton	Wilson High School	Tacoma

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High School Third Place Awards

Category	Project Title	Name	School	School District
Behavioral & Social Sciences	Driving Distractions	Danielle Jones	Frontier Junior High	Bethel
Eng: Electrical & Mechanical	"The Brightest Bulb"	Ashley Stewart	Frontier Junior High	Bethel
Eng: Materials & Bioengineering	Filtering Roof Run-off with Natural Filters	Liam McCormack	Wilson High School	Tacoma
Environmental Sciences	Hydro Highway Hype: The Relation Between Hightway Systems and Neaby Water	Andrew Babson	Wilson High School	Tacoma
	I Can't Believe They Ate the Whole Thing: The Affect of Different Foods, Fed to Worms, on the Nitrogen Content in the Resulting Compost Soil and Happiness of the Worms	Hailey Viehmann	Wilson High School	Tacoma
Microbiology	Bacterial or Viral: What Cures Strep?	Amber Racine	Wilson High School	Tacoma
Physics & Astronomy	How Do You Take Your Tea?	Shantel Moore	Frontier Junior High	Bethel
Plant Sciences	Plants and Pollution:A Bad Thing?	Soren Iverson	Wilson High School	Tacoma

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High School Honorable Mention Awards

Category	Project Title	Name	School	School District
Animal Science	Diurnal Migration Patterns of Bivalve Larvae in Quartermaster Harbor	Kayleen McMonigal	Bellarmino Preparatory School	Private
Behavioral & Social Sciences	Parents Vs Children: A Study of Whether or Not Parent Marital Status Affects Children's Development and Behavior	Kaelin Brightman	Wilson High School	Tacoma
Biochemistry	Macronutrients Result on the Inhabitants of Worms.	Oswald Ramos	Wilson High School	Tacoma
Chemistry	Melt Down	Tommy Ho	Wilson High School	Tacoma
	Salt Water Conductivity	Emily Robinson	Frontier Junior High	Bethel
	The Effect Of Heat On Helium	Payton Costello	Wilson High School	Tacoma
Earth & Planetary Science	Eww Kill It: Environmental Friendly Extermination	Cullen Daniels	Wilson High School	Tacoma
Energy & Transportation	Power the Earth With a Star	Yann Shaw	Wilson High School	Tacoma
Eng: Electrical & Mechanical	Bagged vs. Plastic	Christopher Neiman	Wilson High School	Tacoma
Eng: Materials & Bioengineering	What Type of Gravel Produces the Strongest Concrete	Greg Menefee	Wilson High School	Tacoma
Environmental Management	Greasy Worms: The Affect of Grease on the Environment Around Us	Josephine Green	Wilson High School	Tacoma
Environmental Sciences	The Effect of Carbon Dioxide Acidified Seawater on Shell Dissolution on the Manila Clam (<i>Venerupis philippinarum</i>) and the Olympia Oyster (<i>Ostrea lurida</i>)	Alokya Perera	Bellarmino Preparatory School	Private
	The Effect of Deicer on Worms	Perry Henricksen	Wilson High School	Tacoma
Mathematical Sciences	Black Holes	Chanel Washington	Lakes High School	Clover Park
Medicine & Health Sciences	Garden Pest Could They Help Sicknes:Dandelions and Their Antiboitic Properties	Robert Smith	Wilson High School	Tacoma
	Hold On Tight! ...or Not: An Examenation on What Shape Handrail Retains the MostA Amount of Germs	Joy Olsen	Capital High School	Tacoma
	The Effect of Colloidal Silver on Bacteria vs. That of Common Disinfectants	Jacob Finney	Wilson High School	Tacoma
	The Prevalence of Methicillin-resistant Staphylococcus aureus on Fomites in Two Pre-hospital Settings: An Investigative Study	Jonathan Wu	Bellarmino Preparatory School	Private
Microbiology	Bathroom Pass Bacteria: Girls vs. Boys	Cody Dodge	Wilson High School	Tacoma
	The Effect of Garlic on Bacteria	Kyleigh Floyd	Wilson High School	Tacoma
Plant Sciences	Does Density Affect the Combustion Times of Wood?	Chris Horn	Frontier Junior High	Bethel