

**2016 South Sound Regional Science Fair
High School Specialty Awards**

Award	Project Title	Name	GR	School	District
American Psychological Association Certificate of Award	Does the Knowledge of a Time Limit Affect Performance of a Simple Task?	Daphne Land	9	Homeschool	
American Meteorological Society Certificate of Outstanding Achievement	Cerumen on Earbuds	Brittain Rhodes	9	Wilson High	Tacoma
	Concussions: Making an Impact	Garrett Yarter	12	W F West High	Chehalis
Most Outstanding Exhibit in Materials Science	A Filtration Compilation: The Effect of the Filter on the Amount of Pollutants Remaining in the Water Will be Seen in the Decreased Particulate Mass and Turbidity	Noah Jensen	9	Wilson High	Tacoma
Intel Science Talent Search	An Evaluation of Factors That May Influence Olympia Oyster (<i>Ostrea Lurida</i>) Reproduction and Growth	Emily Thomsen	11	Wilson High	Tacoma
	Music and Short Term Memory	Jessie Ju	11	Annie Wright	
	MyHealth: Early Detection, Monitoring, and Control of Parkinsonian Tremor	Surabhi Mundada	11	Olympia High	Olympia
	Design and construction of a scanning tunneling microscope: An exercise in affordability and usability	Adam McCombs	11	Harrison Preparatory	Clover Park
NOAA's Taking the Pulse of the Planet Award	Surveying biodiversity on Creosote pilings in the Puget Sound through a comprehensive mathematical analysis using DEROS: A diving and exploration remote operated submersible	David Guertin	12	Tacoma Science and Math Institute	Tacoma
		Karun Paul	12	Tacoma Science and Math Institute	Tacoma

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High School Specialty Awards (Continued)

Award	Project Title	Name	GR	School	District
Office of Naval Research Naval Science Award	Optimization of Fuel Cell Structure for the Commercial Reduction of Carbon Dioxide in Water to Produce Ethanol	Aditi Kumar	10	Timberline High School	North Thurston
	Running on Algae: The Optimum Growth Conditions of Chlorella ellipsoidea for the Production of Biofuel	Kelsey Homan	9	Wilson High	Tacoma
	MyHealth: Early Detection, Monitoring, and Control of Parkinsonian Tremor	Surabhi Mundada	11	Olympia High	Olympia
	Efficiently Diagnosing Heart Arrhythmia using Machine Learning Algorithms	Abhinav Gundrala	9	Olympia High	Olympia
Innovative Science Award	Optimization of Fuel Cell Structure for the Commercial Reduction of Carbon Dioxide in Water to Produce Ethanol	Aditi Kumar	10	Timberline High School	North Thurston
Safety First Award	Optimization of Fuel Cell Structure for the Commercial Reduction of Carbon Dioxide in Water to Produce Ethanol	Aditi Kumar	10	Timberline High School	North Thurston
	Low Cost Alternatives to Diagnose Disease Specifically Designed for Developing Countries Using Fast Lithography Activation of Sheets	Rakshith Mullukatte	10	Olympia High	Olympia
		Vineethsubbu Somasundaram	10	Olympia High	Olympia
	A Novel Approach to the Reduction of Antibiotic Resistant Escherichia coli Present in Livestock Waste Through Use of Plant Extracts	Sarah Strickler	12	Bonney Lake High	Sumner

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Award	Project Title	Name	GR	School	District
Stockholm Junior Water Prize	An Evaluation of Factors That May Influence Olympia Oyster (<i>Ostrea Lurida</i>) Reproduction and Growth	Emily Thomsen	11	Wilson High	Tacoma
	Modeling the Effects of Raingarden Implementation on the Efficiency of Nitrate Filtration in an Urban Landscape	Sarah Dawson	9	Wilson High	Tacoma
	Water Filtration	Veronika Pon	9	Wilson High	Tacoma
The Regional Ricoh Sustainable Development Award	Effect of an Earthen Filter on biomass of plants	Thomas Jacobs	9	Wilson High	Tacoma
US Air Force Certificate of Achievement	Bug Off: Analyzing Attractive and Repellent Behaviors of Culex Mosquitos	Sasha Chang	10	Annie Wright	0
		Hyunjoo Ji	10	Annie Wright	0
	Optimization of Fuel Cell Structure for the Commercial Reduction of Carbon Dioxide in Water to Produce Ethanol	Aditi Kumar	10	Timberline High School	North Thurston
	The analysis of airfoil technology: The impact of camber on the lift to drag relationship of airfoils at different angles of attack	Raghavendra Bharadwaj	9	Capital High	Olympia
	Time of Death Determination Simulation	Jenna Algeo	9th	Wilson High School	Tacoma
US Metric System Award	A Novel Approach to the Reduction of Antibiotic Resistant Escherichia coli Present in Livestock Waste Through Use of Plant Extracts	Sarah Strickler	12	Bonney Lake High	Sumner
Society for In Vitro Biology	An Evaluation of Factors That May Influence Olympia Oyster (<i>Ostrea Lurida</i>) Reproduction and Growth	Emily Thomsen	11	Wilson High	Tacoma
Yale: Most Outstanding 11th Grade Exhibit	MyHealth: Early Detection, Monitoring, and Control of Parkinsonian Tremor	Surabhi Mundada	11	Olympia High	Olympia

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Award	Project Title	Name	GR	School	District
Notebook Neatness	Optimization of Fuel Cell Structure for the Commercial Reduction of Carbon Dioxide in Water to Produce Ethanol	Aditi Kumar	10	Timberline High School	North Thurston
	Running on Algae: The Optimum Growth Conditions of Chlorella ellipsoidea for the Production of Biofuel	Kelsey Homan	9	Wilson High	Tacoma
	MyHealth: Early Detection, Monitoring, and Control of Parkinsonian Tremor	Surabhi Mundada	11	Olympia High	Olympia
	A Novel Approach to the Reduction of Antibiotic Resistant Escherichia coli Present in Livestock Waste Through Use of Plant Extracts	Sarah Strickler	12	Bonney Lake High	Sumner
	Alzheimer's Aid: A computer based assistance application for Alzheimer's patients	Sowmya Duddu	9	Olympia High	Olympia
	The analysis of airfoil technology: The impact of camber on the lift to drag relationship of airfoils at different angles of attack	Raghavendra Bharadwaj	9	Capital High	Olympia
ASU Walton Sustainability Solutions Initiatives	Optimization of Fuel Cell Structure for the Commercial Reduction of Carbon Dioxide in Water to Produce Ethanol	Aditi Kumar	10	Timberline High School	North Thurston
	Running on Algae: The Optimum Growth Conditions of Chlorella ellipsoidea for the Production of Biofuel	Kelsey Homan	9	Wilson High	Tacoma
Intel's Excellence in Computer Science	Efficiently Diagnosing Heart Arrhythmia using Machine Learning Algorithms	Abhinav Gundrala	9	Olympia High	Olympia

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Award	Project Title	Name	GR	School	District
Mu Alpha Theta Award	Efficiently Diagnosing Heart Arrhythmia using Machine Learning Algorithms	Abhinav Gundrala	9	Olympia High	Olympia
PLU Chemistry Department Award	Optimization of Fuel Cell Structure for the Commercial Reduction of Carbon Dioxide in Water to Produce Ethanol	Aditi Kumar	10	Timberline High School	North Thurston
Pierce College: Reach for the Stars	Cerumen on Earbuds	Brittain Rhodes	9	Wilson High	Tacoma
Banes: Outstanding project in environmental science	How much Matters?	Hina Ramzan	9	Wilson High	Tacoma