

2006 Award Report

Beaverton-Hillsboro Science Expo

Behavioral & Social Sciences		<i>1st, 2nd, 3rd are category place awards</i>		
<i>Exhibit #</i>	<i>Student(s)</i>	<i>Project Title</i>	<i>Organization Name</i>	<i>Sponsor</i>
HS-BE-099	Breanna Johnson	The Human Mind and Mathematics: Explained through the Golden Ratio	Southridge High School	Joel Morgan
<i>Award:</i>	1st Behavioral and Social Sciences - Hs			
<i>Award:</i>	ISEF Finalist Individual			
<i>Award:</i>	Outstanding Research in Psychology		American Psychological Association and Teachers of	
HS-BE-103	Richard Wood	The effect of Attribution Theory on the variable consistency of performance in high school women's basketball	Southridge High School	Joel Morgan
<i>Award:</i>	2nd Behavioral and Social Sciences - HS			
<i>Award:</i>	Mu Alpha Theta Award		Mu Alpha Theta	
HS-BE-126	Krikor Gazarian	The Effect of Glucose Consumption on Memory	Merlo Station High School	Hector Morales
<i>Award:</i>	3rd Behavioral and Social Science - HS			
HS-BE-193	Styles Smith, Joe Noh	Manipulating with False Memories	Glencoe High School	Ellen Lyon
<i>Award:</i>	ISEF Finalist Team			
HS-BE-189	Lori Dickerson	The effect of variant light exposure on the locomotor of cambarus.	Southridge High School	Joel Morgan
<i>Award:</i>	Army Outstanding High School Project in Life Sciences		Army Research Office, U.S. Army	
<i>Award:</i>	Outstanding Research in Psychology		American Psychological Association and Teachers of	
HS-BE-188	Josean Perez, Julio Montano, Samuel Montano	What is going on in our school?	Westview High School	Debbie Cooper
<i>Award:</i>	Outstanding Project in an Atmospheric Science Exhibit		American Meteorological Society	

2006 Award Report

Beaverton-Hillsboro Science Expo

Biochemistry		<i>1st, 2nd, 3rd are category place awards</i>		
<i>Exhibit #</i>	<i>Student(s)</i>	<i>Project Title</i>	<i>Organization Name</i>	<i>Sponsor</i>
HS-BI-023	Anil Kolor	An Indirect Study on Benefits of Antioxidants in Reducing Drusen Formation	Westview High School	Mark Geren
<i>Award:</i> 1st Biochemistry - HS				
HS-BI-032	Jacob Crist, Kevin Dewey	Yeast Growth Experiment	Glencoe High School	Ellen Lyon
<i>Award:</i> 2nd Biochemistry - HS				
HS-BI-022	Laila Wahedi	Sleep Deprivation: A review on Adenosine, A1a and A2a receptors, Adenosine Metabolic Enzymes Activity, and EEG Relating To The Sleep Wake Cycle and Diurnal Patterns In The Basal Forebrain, Tuberomamillary Nucleus, Ventrolateral Preoptic Area, And The Suba	Merlo Station High School	Hector Morales
<i>Award:</i> 3rd Biochemistry - HS				

2006 Award Report

Beaverton-Hillsboro Science Expo

Botany		<i>1st, 2nd, 3rd are category place awards</i>		
<i>Exhibit #</i>	<i>Student(s)</i>	<i>Project Title</i>	<i>Organization Name</i>	<i>Sponsor</i>
HS-BO-068	sam bookhardt	Measuring Components of Bog Soils Where Darlingtonia Thrive	Aloha High School	Rosy Gupta
<i>Award:</i> 1st Botany - HS				
HS-BO-041	Kayla Hochstein	Propagation of root cuttings for Pink Princess Escallonia	Hillsboro High School	Dean Miyama
<i>Award:</i> 2nd Botany - HS				
<i>Award:</i> Outstanding Geoscience Project		Association Of Women Geoscientists		
HS-BO-080	Alex Lantz	An Attempted Assination of Moss	Glencoe High School	Ellen Lyon
<i>Award:</i> 3rd Botany - HS				

2006 Award Report

Beaverton-Hillsboro Science Expo

Chemistry		<i>1st, 2nd, 3rd are category place awards</i>		
<i>Exhibit #</i>	<i>Student(s)</i>	<i>Project Title</i>	<i>Organization Name</i>	<i>Sponsor</i>
HS-CH-065	Sarah Fine	Comparing Vitamin C Content of Various Species of Rose Hips by Redox Titration with Iodate Solution	Westview High School	Stephanie Fine
<i>Award:</i> 1st Chemistry - HS				
HS-CH-070	Seth Wickremarachchi	Electrochemical Puzzle: unexpected colors at anode in red cabbage juice gel.	Liberty High School	Chris Steiner
<i>Award:</i> 2nd Chemistry - HS				
HS-CH-064	Susannah Lee	Cold Fusion: Excess Heat through Nuclear Process	Beaverton High School	Keith Grosse
<i>Award:</i> 3rd Chemistry - HS				
<i>Award:</i> U.S. Air Force Outstanding Project		U.S. Air Force		

2006 Award Report

Beaverton-Hillsboro Science Expo

Computer Sciences

1st, 2nd, 3rd are category place awards

<i>Exhibit #</i>	<i>Student(s)</i>	<i>Project Title</i>	<i>Organization Name</i>	<i>Sponsor</i>
HS-CO-017	Vidya Ganapati	Building a Power-Optimized MIPS Pipeline	Sunset High School	John Sheu
<i>Award:</i>	1st Computer Science - HS			
<i>Award:</i>	Intel Excellence in Computer Science	Intel Corporation		
<i>Award:</i>	ISEF Finalist Individual			
HS-CO-012	Alan Pierce, Nate Broussard	Combining Touch Screen and Scanner Input for Handwriting Recognition	Merlo Station High School	Hector Morales
<i>Award:</i>	1st Computer Science - HS			
<i>Award:</i>	Intel Excellence in Computer Science	Intel Corporation		
<i>Award:</i>	ISEF Finalist Team			
<i>Award:</i>	Outstanding Project by an 11th Grade Student	Yale University Science and Engineering Associatio		
<i>Award:</i>	U.S. Air Force Outstanding Project	U.S. Air Force		
HS-CO-006	Javen ONeal	Comparing the Accuracy of Spam Filtering Methods	Merlo Station High School	Joel Laney
<i>Award:</i>	3rd Computer Science - HS			

2006 Award Report

Beaverton-Hillsboro Science Expo

Earth Science		<i>1st, 2nd, 3rd are category place awards</i>		
<i>Exhibit #</i>	<i>Student(s)</i>	<i>Project Title</i>	<i>Organization Name</i>	<i>Sponsor</i>
HS-EA-013	Jessica Hambleton, Katie Shriver	Volcanic Soil Fertility	Merlo Station High School	Joel Laney
<i>Award:</i> 1st Earth Science - HS				
HS-EA-011	Neri Ramirez	Shakin' Sand and Soil	Merlo Station High School	Joel Laney
<i>Award:</i> Outstanding Geoscience Project		Association Of Women Geoscientists		

2006 Award Report

Beaverton-Hillsboro Science Expo

Engineering				
<i>1st, 2nd, 3rd are category place awards</i>				
<i>Exhibit #</i>	<i>Student(s)</i>	<i>Project Title</i>	<i>Organization Name</i>	<i>Sponsor</i>
HS-EG-054	Willie Neiswanger	Touch Based Navigation Aid for the Blind and Visually Impaired	Merlo Station High School	Joel Laney
<i>Award:</i>	1st Engineering - HS			
<i>Award:</i>	Army Outstanding High School Project in Engineering		Army Research Office, U.S. Army	
<i>Award:</i>	Beaverton Peer Recognition Award			
<i>Award:</i>	Innovative Engineering Award		National Society of Professional Engineers	
<i>Award:</i>	ISEF Finalist Individual			
<i>Award:</i>	U.S. Air Force Outstanding Project		U.S. Air Force	
HS-EG-075	Benjamin Cregger	Strat-o-lution	Westview High School	Mark Geren
<i>Award:</i>	2nd Engineering - HS			
<i>Award:</i>	Innovative Engineering Award		National Society of Professional Engineers	
HS-EG-099	William Fan, Edward Nguyen, William Fan	Novel Pattern Classification Algorithm for Augmented Cognition Systems Via Multiplex Schroedinger Probability Densities	Merlo Station High School	Hector Morales
<i>Award:</i>	3rd Engineering - HS			
HS-EG-100	Amin Kolbehdari	Novel Theory and Applications of Left-Handed Metamaterials	Liberty High School	Chris Steiner
<i>Award:</i>	Outstanding Project in Materials Science		ASM International Foundation	
HS-EG-094	Brian McCarthy	Magnetism and Plasma	Liberty High School	Ramona Toth
<i>Award:</i>	Herbert Hoover Young Engineer Award		Herbert Hoover Presidential Library Association	
HS-EG-090	Lan Luong	Friction and the Spin of a Tennis Ball.	Beaverton High School	Keith Grosse
<i>Award:</i>	Office of Naval Research Naval Science Award		Office of Naval Research, US Navy and Marine Corps	
HS-EG-053	Tanmay Bhardwaj, Baris Inan	Energy Alternatives to Fossil Fuel	Merlo Station High School	Joel Laney
<i>Award:</i>	Outstanding principles and technical innovations for sustainable development		Ricoh Corporation	
<i>Award:</i>	Outstanding Use of the International System of Units		U.S. Metric Association	

2006 Award Report

Beaverton-Hillsboro Science Expo

Environmental Sciences		<i>1st, 2nd, 3rd are category place awards</i>		
<i>Exhibit #</i>	<i>Student(s)</i>	<i>Project Title</i>	<i>Organization Name</i>	<i>Sponsor</i>
HS-EV-101	Natalie Minas	Worm Fertilizing	Westview High School	Mark Geren
<i>Award:</i> 1st Environmental Sciences- HS				
HS-EV-060	Josh Goodman	Do Carbon Dioxide levels in SST Classrooms meet EPA Recommendations ?	Merlo Station High School	Joel Laney
<i>Award:</i> 2nd Environmental Sciences - HS				
<i>Award:</i> Best Use of Digital Sensors in Experimentation				
HS-EV-075	Tyler Marley	To what degree does carbon dioxide effect atmospheric temperature conditions of an enclosed system modeling global climate?	Southridge High School	Joel Morgan
<i>Award:</i> 3rd Environmental Sciences - HS				
<i>Award:</i> NOAA's Taking the Pulse of the Planet		National Oceanic and Atmospheric Administration		
<i>Award:</i> Outstanding Project in an Atmospheric Science Exhibit		American Meteorological Society		
HS-EV-084	Stacie Krueger	Investigation of Bioswales	Glencoe High School	Linda Wolf
<i>Award:</i> U.S. Regional Stockholm Junior Water Prize		Water Environment Federation		
HS-EV-065	Brendan O'Connor	Big Stinkin' Tubes Of Death	Merlo Station High School	Joel Laney
<i>Award:</i> U.S. Regional Stockholm Junior Water Prize		Water Environment Federation		
HS-EV-042	Angela Pizzuto	NO2 Emmisions in The Gorge	Westview High School	Debbie Cooper
<i>Award:</i> Outstanding Project in an Atmospheric Science Exhibit		American Meteorological Society		

2006 Award Report

Beaverton-Hillsboro Science Expo

Mathematics		<i>1st, 2nd, 3rd are category place awards</i>		
<i>Exhibit #</i>	<i>Student(s)</i>	<i>Project Title</i>	<i>Organization Name</i>	<i>Sponsor</i>
HS-MA-014	Michael Chen	Predicting if and when Certain Cycloids Repeat when given two circles' radii.	Merlo Station High School	Joel Laney
<i>Award:</i>	1st Mathematics - HS			
<i>Award:</i>	Army Outstanding High School Project in Mathematics/Computer Science		Army Research Office, U.S. Army	
HS-MA-019	James Mahoney		Beaverton High School	Yi Suan Barrow
<i>Award:</i>	2nd Mathematics - HS			
<i>Award:</i>	Mu Alpha Theta Award		Mu Alpha Theta	
<i>Award:</i>	Office of Naval Research Naval Science Award		Office of Naval Research, US Navy and Marine Corps	
HS-MA-015	Matthew Broussard	When Pythagoras Was Wrong: The Pythagorean Theorem and Poincare Space	Merlo Station High School	Joel Laney
<i>Award:</i>	3rd Mathematics - HS			

2006 Award Report

Beaverton-Hillsboro Science Expo

Medicine & Health		<i>1st, 2nd, 3rd are category place awards</i>		
<i>Exhibit #</i>	<i>Student(s)</i>	<i>Project Title</i>	<i>Organization Name</i>	<i>Sponsor</i>
HS-ME-080	Fei Chen	MAM and the Development of Cerebellar Granule Cells	Merlo Station High School	Hector Morales
<i>Award:</i>	1st Medicine and Health - HS			
<i>Award:</i>	Award for Excellence in Scientific Research in Environmental Health		Oregon Environmental Health Association	
HS-ME-063	Soroush Amali, Adriana Jasso	The effect of extracellular calcium on contraction intensity in correspondance with the effect of serum electrolytes on reducing EAMC.	Southridge High School	Joel Morgan
<i>Award:</i>	2nd Medicine and Health - HS			
HS-ME-059	James Dalton	Effect Springbak insoles have on maximum bench-press repetitions and standing long jump.	Southridge High School	Joel Morgan
<i>Award:</i>	3rd Medicine and Health - HS			
HS-ME-055	Joseph Shields	The effects of magnetic fields on the growth of juvenile zebra danios (danio rerio) over time.	Sunset High School	Margaret Griffith
<i>Award:</i>	3rd Medicine and Health - HS			
HS-ME-092	Lauren Tofflemire, Courtney Lee	Effect of Complex Sugars on Weight Gain	Liberty High School	Ramona Toth
<i>Award:</i>	Project Best Illustrating Surgeon General's Health Recommendations		U.S. Public Health Service	

2006 Award Report

Beaverton-Hillsboro Science Expo

Microbiology		<i>1st, 2nd, 3rd are category place awards</i>		
<i>Exhibit #</i>	<i>Student(s)</i>	<i>Project Title</i>	<i>Organization Name</i>	<i>Sponsor</i>
HS-MI-049	Christine Castle	How does varying atmospheric pressures effect facultative anaerobic Lactococcus lactis bacteria growth, in quantity, size, and quality of the colonies and cells within the colonies?	Southridge High School	Joel Morgan
<i>Award:</i>	1st Microbiology - HS			
<i>Award:</i>	Herbert Hoover Young Engineer Award	Herbert Hoover Presidential Library Association		
HS-MI-032	Jehan Yahya	Functional Metagenomics on the Microorganisms Associated with the tropical caterpillar Rothschildia lebeau	Southridge High School	Jessica Willey
<i>Award:</i>	2nd Microbiology - HS			
HS-MI-059	Jade Stadick, Kenna Emerson	What Kind of Hand Soap Most Effectively Kills Bacteria?	Liberty High School	Ramona Toth
<i>Award:</i>	3rd Microbiology - HS			

2006 Award Report

Beaverton-Hillsboro Science Expo

Physics		<i>1st, 2nd, 3rd are category place awards</i>		
<i>Exhibit #</i>	<i>Student(s)</i>	<i>Project Title</i>	<i>Organization Name</i>	<i>Sponsor</i>
HS-PH-070	Prachi Pai	Lack of Harmonic Chord Patterns in North Indian Classical Music.	Merlo Station High School	Joel Laney
<i>Award:</i>	1st Physics - HS			
<i>Award:</i>	Office of Naval Research Naval Science Award	Office of Naval Research, US Navy and Marine Corps		
HS-PH-094	Christian Lobo	Measuring Nanoscale Amplitudes of Piezoelectric Tuning Forks for NSOM	Westview High School	Mark Geren
<i>Award:</i>	2nd Physics - HS			
<i>Award:</i>	Office of Naval Research Naval Science Award	Office of Naval Research, US Navy and Marine Corps		
<i>Award:</i>	Outstanding Project in Optical Science and Engineering	SPIE-The International Society for Optical Enginee		
HS-PH-113	Jennifer Lo	Effects of Organic Molecules, Electrical Potential, and Frequency on Dielectrophoretic Fabrication of Carbon Nanotube Devices	Sunset High School	John Sheu
<i>Award:</i>	3rd Physics - HS			
HS-PH-128	Priya Gupta	Fuel Cell Cars	Aloha High School	Rosy Gupta
<i>Award:</i>	Outstanding principles and technical innovations for sustainable development	Ricoh Corporation		
<i>Award:</i>	Outstanding Project in Materials Science	ASM International Foundation		
HS-PH-072	Jason Chen	Hidden Hazards: Dense Electrostatic Field Detection from Various Household Appliances	Merlo Station High School	Joel Laney
<i>Award:</i>	Army Outstanding High School Project in Physical Sciences	Army Research Office, U.S. Army		

2006 Award Report

Beaverton-Hillsboro Science Expo

Space Science				
<i>1st, 2nd, 3rd are category place awards</i>				
<i>Exhibit #</i>	<i>Student(s)</i>	<i>Project Title</i>	<i>Organization Name</i>	<i>Sponsor</i>
HS-SP-009	Eric Carlson	Design and Manufacture of a Remotely Operable Robotic Telescope	Liberty High School	Chris Steiner
<i>Award:</i>	1st Space Science - HS			
<i>Award:</i>	Army Outstanding High School Project in Environmental Science		Army Research Office, U.S. Army	
<i>Award:</i>	Outstanding Project by an 11th Grade Student		Yale University Science and Engineering Associatio	
HS-SP-017	Tyler Raymond	Red Ice	Southridge High School	Joel Morgan
<i>Award:</i>	Outstanding Project in an Atmospheric Science Exhibit		American Meteorological Society	

2006 Award Report

Beaverton-Hillsboro Science Expo

Zoology		<i>1st, 2nd, 3rd are category place awards</i>		
<i>Exhibit #</i>	<i>Student(s)</i>	<i>Project Title</i>	<i>Organization Name</i>	<i>Sponsor</i>
HS-ZO-037	Yufei Cao	Does the Nonhuman Primate Oocyte Express Membrane Progesterone Receptors that are Necessary for Oocyte Maturation?	Liberty High School	Ramona Toth
<i>Award:</i> 1st Zoology - HS <i>Award:</i> Hillsboro Peer Recognition Award <i>Award:</i> ISEF Finalist Individual				
HS-ZO-033	Jose Perez	An investigation on the response mechanism of pea aphid, Acyrthosiphon pisum to lady beetle presence	Westview High School	Mark Geren
<i>Award:</i> 2nd Zoology - HS				