

Representatives to attend the North West Science Expo, Portland Oregon 14 March on the PSU Campus:

High School Category:		
Robert Tan	The Effects of Extremely Low Frequency (ELF) Electric Fields on the Olfactory System of Madagascar Hissing Cockroaches (<i>Gromphadorhina portentosa</i>)	West Salem High School
Robin Kimura, Abby Gregory, Stephen Marshall	An Examination of Food Consumption in Relation to the Sleep Quality of Teenagers	Crescent Valley High School
Clara Culligan	Effective Ways of Communicating a Message	Skyview High School
Jessica Cummins, Mary Patzel	A discussion about Equality: Gender Study in the Classroom	West Salem High School
Ryan Riches, Nicholas VonForester	Predicting a Correlation Between Iris Crypt Frequency, Intelligence and Personality Type	West Salem High School
Andrew Read, Dan Woodman	Optimizing Chemical Efficiency for Propulsion Purposes	Skyview High School
Ashley Culver	Alpha and Beta Particles Blocked in a Cloud Chamber	Crescent Valley High School
Andrew Mintner	Real-time election verification using rate integration auditing	Tualatin High School
Benjamin Lampert, Matthew Feltz	DETERMINING THE EFFECTIVENESS OF AERIAL INFRASOUND ARRAYS VERSUS LAND BASED SYSTEMS	West Salem High School
Jacinda Thomas	The Effect of Catastrophic Fire and Salvage Logging on Soil Nutrient Levels in the Fremont National Forest	Tillamook High School
Luke Wadman, Ben Mahoney, Jeff Borgerson	Thermal Recovery System Of A Simulated Internal Combustion Engine.	Crescent Valley High School
Matt Stickle	Building a Submerged Environment Independent Monitoring System [SEIMS]	Crescent Valley High School
Neil Shah, Tyler Gakstatter	Designing a Power Efficient CPU Water Cooling System	Crescent Valley High School

Alex Edison	Construction of a Small Scale Railgun as a Proof of Concept for Liquid Rails	West Salem High School
Teresa Chan, Riti Gupta	OPTIMIZING PORE SIZE OF CELLULOSE/POLYSULFONE NANOCOMPOSITE MICROFILMS FOR HEMODIALYSIS	Crescent Valley High School
Jeremy Schultz, Chuck Caster, Zach Rifai	Analysis of the Rate of Biodegradation of Biodegradable Plastics	Crescent Valley High School
Inis Hsieh, Margaret Yeh, David Ni	Comparison of Hydrocarbons from Natural and Lab Grown Resources	Crescent Valley High School
Steven Paasch	Wave Energy Generator Efficiencies	Crescent Valley High School
Brian Qian, Molly Gard, Justin Rose	Experimental Study on Microwave Energy as a Catalyst for Biofuel Production	Crescent Valley High School
Curtis Peterson, Raymond Ehlers, Sean Skyllingstad	The Regeneration of Activated Charcoal for Removal of Hydrogen Sulfide in Landfill Gas Streams	Crescent Valley High School
John-Nicholas Furst	Experimental Study on the Efficiency of Harvesting Power from Rain Gutter Downspouts	Crescent Valley High School
Jonathan Gomes	Aerodynamic Stability	Skyview High School
Jamie Roberts, Madeleine King, Logan Cooper	Harvesting Wave Energy Through the Use of Piezo Electric Sensors	Crescent Valley High School
Nick Vincent-Hill, Andy Vincent-Hill, Noah Baker	The Effect of Temperature on a Rechargeable Electrolysis Battery	Crescent Valley High School
Hayden Bush	The feasibility of creating biocrude from Scotch Broom	Tillamook High School
Anthony Lin	Extrapolating Real Estate Prices and Related Factors to Predict Future Housing Trends	Catlin Gabel School
Eric Larson	The DNA Inequality in Non-Convex Regions	University of Oregon
Ian Talarico	Is There a Correlation Between the Body Mass Index (BMI) of High School Weight Lifters and Various Lifts?	Skyview High School

Benjamin Lee	Effect of Active & Inactive Crystalline Papain on Escherichia coli	Catlin Gabel School
Rivfka Shenoy	Effects of DMSO on Prion Infectivity in Saccharomyces Cerevisae	Catlin Gabel School
Tara Kumar	THE EFFECTS OF METAL COMPOUNDS ON THE GROWTH RATE OF E. COLI	Catlin Gabel School
Lacey Cochran, Beth Turner	Investigation of Allium Sativum, Armoracia Rusticana, and Tropaeolum Majus as natural antibiotics	Crescent Valley High School
Payden Waldo, Chanho Park	Transferring Electrical Potential Via Resonating Coil System	Crescent Valley High School
Yale Fan	A Quantum Computational Approach to the Atomic Many-Body Problem	Catlin Gabel School
Joe Newbry, Chad Newbry, Benjamin Condrea	Efficiency of a miniature 2-stage indoor electrostatic precipitator	Crescent Valley High School
Katherine Lownsbery	Effect of Electric Field on Potassium Sulfate Crystal Growth	West Salem High School
Libby Nousen, Sydney Powell, Weiyi Li	Study of the Effects of Herbicides on the Salvia Hispanica	Crescent Valley High School
Siri Erickson, Emma Fontaine	Comparison of Different Wastes as Fertilizer	Crescent Valley High School
Elliott Finn, Rob Livesay, Hanna Lorenz	Experimental Study in Fragaria Salt Tolerance and the Development of a Rapid Leaf Assay	Crescent Valley High School
Chelsea Thaw, Kat Maggiulli	A Study of the Effects of Climate Change on Euphydryas Editha Taylori and Plants Fragaria Vierginiana and Festuca Arudinacea	Crescent Valley High School
Staci Sherer, Emily Oldenkamp, Victoria Callaway	Allelopathy in Tansy Ragwort	Tillamook High School
Olga Lane, Josh Evans, Katie Snell	The effect of Scotch Broom extracts on rye germination	Tillamook High School

Lipi Gupta, Marissa Minato, Molly Ward	Experimental Study of Effect of Forest Fires on Tree Growth and Wood Quality	Crescent Valley High School
Megan Bird, Blake Pulliam	Using zeolites to reduce copper sulfate migration in fields and streams	Tillamook High School
Yaeji Park, Evan Wu	A Spatial Analysis of Land Use and Ammonia Water Pollution in Corvallis, Oregon	Crescent Valley High School
Julia Semprini, Jimmy Weber	COMPARING WATER QUALITY OF AN URBAN CREEK, (DIXON) AND A RURAL CREEK, (JACKSON) IN CORVALLIS, OREGON.	Crescent Valley High School
Alex Humphrey	Experimental Study on Reverse Osmosis Desalination	Crescent Valley High School
Spencer Vines	Effects of Varied Nitrogen Phosphorus ratios on Anabaena Flos-Aquae.	Skyview High School
Brian Lach, Patrick Yun	EVALUTAION OF HDPE LANDFILL LINER PERMEATION	Crescent Valley High School
Matt Galvin, Harrison Fontaine	The Effects of Heat on the Carbon Dioxide Production of Soil	Crescent Valley High School
Garrett Egan, Andrea Higdon, Alison Herlihy	The effect of ammonium sulfate on algae growth and oxygen levels	Crescent Valley High School