PORTLAND STATE UNIVERSITY

NewsRelease

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Intel Northwest Science Expo

Results of 2005 Intel Northwest Science Expo at PSU Announced

(Portland, Ore.) April 2, 2005 – On Friday, April 1, 700 middle and high school students from throughout Oregon and southwest Washington presented original science research projects at the 22nd annual Intel Northwest Science Expo, held at Portland State University and presented by PSU and Vernier Software and Technology.

This year the Expo consisted of three separate fairs: the middle school fair; the high school at-large regional fair for students who had not competed in another regional fair; and the high school state fair for students who qualified at one of six regional fairs held previously this spring, and with separate judging for life and physical sciences.

Best of Fair winners were announced at an awards ceremony Friday evening. Top finishers at the high school level will compete as members of Team Oregon at the **Intel International Science and Engineering Fair (ISEF)**, May 8–13, 2005, in Phoenix, Ariz. Over 300 awards were presented, including college scholarships; complete results will be posted at the Expo's Web site, www. nwse.org on Monday, April 4, 2005.

The Intel Northwest Science Expo is affiliated with the Intel International Science and Engineering Fair and the Discovery Channel Young Scientist Challenge. Its mission is to develop scientific talent and promote science literacy in Oregon and southwest Washington students. The Expo is a project of the Center for Science Education at Portland State University, and receives additional financial support from the Intel Foundation, Vernier Software and Technology, the Edward and Romell Ackley Foundation, Youth Exploring Science!, Girl Scouts–Columbia River Council, AVS (NW Section), Madden Industrial Craftsmen and Bill Becker. Judging and interviews were conducted by 240 scientific professionals from throughout the area.

Winners from the 2005 Intel Northwest Science Expo

Middle School Awards				
Award	**Student Names**	**School**	**Grade**	**Project Title**
Best of Fair	Yale Fan	Meadow Park Middle School (Summa)	7	Polymers Prefigured
Best of Fair	Sarah Doyle	Evergreen Middle School	7	Differentiating the Kingdoms Using DNA Fingerprinting

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High School At-Large Regional Fair Awards				
Award	**Student Names**	**School**	**Grade**	**Project Title**
Best of Fair	Saate Shakil	Benson High School	11	Changes In Brain Function Following High/Low Novelty-Seeking
ISEF Finalist, Individual	Saate Shakil	Benson High School	11	Changes In Brain Function Following High/Low Novelty-Seeking
ISEF Finalist, Individual	Anarghya Vardhana	Jesuit High School	11	Primality Testing: Utilizing Characteristics of Prime Numbers, that Allow for Optimal Deterministic and Probabilistic Primality Testing Algorithms in Polynomial Time
ISEF Finalist, Team	Devin Lane, Ben Buford	Benson High School	12, 12	Computer Analysis of Bacteria Growth Over Time
ISEF Alternate	Donna Canada-Smith	Catlin Gabel School	12	Flavonoids: Composition in Weeds and Applications in Modern Medicine
ISEF Alternate	Marta Bryan	Bend Science Station	9	Active Infrared Triggering and the Migration Patterns of *Rana Pretiosa*
High School State Awards—Life Sciences				
Award	**Student Names**	**School**	**Grade**	**Project Title**
Best of Fair	Sergio-Francis Zenisek	Oregon Episcopal Upper School	11	Recombination of RNA in Compartmentalized Systems: An Origin-of-Life Study
ISEF Finalist, Individual	Vanessa Esch	Skyview High School	12	A State-by-State Analysis of the Benefits Derived from State Lottery Programs
ISEF Finalist, Individual	Allison Rhines	Oregon Episcopal Upper School	11	An Analysis of Brain Tissue Sections for Proteins Targeted by the Genotoxicant Methylazoxymethanol (MAM)
ISEF Alternate	Laura Street	West Salem High School	12	Spores from the Great Basin Floors
ISEF Alternate	Jacob Reisberg	Oregon Episcopal Upper School	11	Tracking Eye-movements to Examine the Influence of Visual Bias on Eyewitness Examination of Police Photospreads
High School State Awards—Physical Sciences				
Award	**Student Names**	**School**	**Grade**	**Project Title**
Best of Fair	Elyse Hope	Oregon Episcopal Upper School	11	Creating a Novel Program for Determining the Three-Dimensional Movement Rates of Sunspots and Active Solar Magnetic Regions: Year 2
ISEF Finalist, Individual	Jennifer Wolochow	Oregon Episcopal Upper School	11	A Study of V380 Ori
ISEF Finalist, Individual	Philip Muñoz	Merlo Station High School	12	Accelerated Angular Scanning in Holographic Data Storage
ISEF Finalist, Team	Alan Pierce, Nate Broussard	Merlo Station High School	12, 12	Combining Text Recognition Methods for Increased Accuracy
ISEF Alternate	Kathryn King	McNary High School	11	The Design and Construction of a Clinostat for Educational and Research Purposes
ISEF Alternate	Solly Reisberg	Oregon Episcopal Upper School	10	Using a Neural Network for Automated Analysis of Spectral Data

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