

Middle School Special Award Winners at the Intel Northwest Science Expo

Excellence in Statistics sponsored by American Statistical Association

Prize includes: \$50

Exhibit number: MS-BE-013 Student: Karen Huan and Alison Wong of Summa Academy South

Project title: The Great Mercury Expedition

Excellence in Statistics sponsored by American Statistical Association

Prize includes: \$50

Exhibit number: MS-BI-039 Student: Li-Ning Yang of Summa Academy North

Project title: Ascorbic Acid Deterioration in Citrus Sinesis as a Result of Storage Conditions and Heat Exposure

Excellence in Statistics sponsored by American Statistical Association

Prize includes: \$50

Exhibit number: MS-BI-061 Student: Lucas Purdy of Bend Science Station

Project title: Aquatic Noise, The Sound of Sonar

Excellence in Statistics sponsored by American Statistical Association

Prize includes: \$50

Exhibit number: MS-EV-027 Student: Naomi Shah of Summa Academy North

Project title: How do air filters affect the Indoor Air Quality of a residential home?

Herbert Hoover Young Engineer Award sponsored by Herbert Hoover Presidential Library Association

Prize includes: Medallion, certificate

Exhibit number: MS-PH-035 Student: Alex Russell-Falla of Winterhaven Middle School

Project title: Why Fi: An Exploration of Antenna Horn Geometries in the 2.4GHz Band

IEEE multiple awards sponsored by IEEE Oregon

Prize includes: Certificate

Exhibit number: MS-PH-035 Student: Alex Russell-Falla of Winterhaven Middle School

Project title: Why Fi: An Exploration of Antenna Horn Geometries in the 2.4GHz Band

IEEE multiple awards sponsored by IEEE Oregon

Prize includes: Certificate

Exhibit number: MS-ET-023 Student: Zachary Motto of Rachel L. Carson Environmental Middle School

Project title: Hydro Power

IEEE multiple awards sponsored by IEEE Oregon

Prize includes: Certificate

Exhibit number: MS-EG-055 Student: Therese Chen of Valley Catholic Middle School

Project title: The Optimization of Electromagnetic Induction

IEEE multiple awards sponsored by IEEE Oregon

Prize includes: Certificate

Exhibit number: MS-EV-051 Student: Lavanya Sridharan, Anisha Adke, Rohisha Adke, Meghana Kalavar and Kiera Degener-O'Brien of Girl Scouts - Columbia River Council

Project title: Purifying water with Nanotechnology to make it drinkable

IEEE multiple awards sponsored by IEEE Oregon

Prize includes: Certificate

Exhibit number: MS-EG-036 Student: Tesca Fitzgerald, Taytlyn Fitzgerald, Austin Bryan and Amelia Bryan of Village Home Educational Resource Center

Project title: In Mechanical Engineering, 2+1 Can Equal 4.

Outstanding Aquatic Related Environmental Science Project sponsored by Lake Oswego Corporation

Prize includes: \$50 and trophy

Exhibit number: MS-EV-037 Student: Janssen Levin of Summa Academy South

Project title: Mud Shrimp and Orthione griffenis

MS Best of Fair sponsored by Madden Industrial Craftsmen

Prize includes: plaque and \$100

Exhibit number: MS-ET-013 Student: Amy Tang of Summa Academy North

Project title: Efficiency and CO2 Emission of Fuels

MS Best of Fair sponsored by Madden Industrial Craftsmen

Prize includes: plaque and \$100

Exhibit number: MS-BE-017 Student: Tanya Bhardwaj of Rachel L. Carson Environmental Middle School

Project title: Hand and Body Coordination?!?!?

Naval Excellence in Science and Engineering Award sponsored by Office of Naval Research, US Navy and Marine Corps

Prize includes: Certificate, Medal

Exhibit number: MS-ME-010 Student: Tulsee Doshi of Summa Academy North

Project title: Radiation and HbA1c....A Test to Detect Exposure to Radiation

Naval Excellence in Science and Engineering Award sponsored by Office of Naval Research, US Navy and Marine Corps

Prize includes: Certificate, Medal

Exhibit number: MS-EV-005 Student: Julian Rosolie of Sabin Elementary / ACCESS Program

Project title: Evaluating the effect of different filtration media on copper removal rates as measured through a lettuce seed (*Lactuca sativa*) bioassay.

Naval Excellence in Science and Engineering Award sponsored by Office of Naval Research, US Navy and Marine Corps

Prize includes: Certificate, Medal

Exhibit number: MS-EG-017 Student: Mighten Yip of Summa Academy North

Project title: A Novel Braking Technique for U.S. Navy Aircraft

Naval Excellence in Science and Engineering Award sponsored by Office of Naval Research, US Navy and Marine Corps

Prize includes: Certificate, Medal

Exhibit number: MS-BI-046 Student: Annelise Cummings of Winterhaven Middle School

Project title: Delay and Inhibition of Bird Seed Sprouting by High Voltage Electricity

Naval Excellence in Science and Engineering Award sponsored by Office of Naval Research, US Navy and Marine Corps

Prize includes: Certificate, Medal

Exhibit number: MS-BI-038 Student: Srinidhi Viswanathan of Summa Academy North

Project title: Spices Fighting Bacteria

Naval Excellence in Science and Engineering Award sponsored by Office of Naval Research, US Navy and Marine Corps

Prize includes: Certificate, Medal

Exhibit number: MS-PH-034 Student: Aishwarya Vardhana of Valley Catholic Middle School

Project title: Genesis of Centripetal Force

Naval Excellence in Science and Engineering Award sponsored by Office of Naval Research, US Navy and Marine Corps

Prize includes: Certificate, Medal

Exhibit number: MS-ET-023 Student: Zachary Motto of Rachel L. Carson Environmental Middle School

Project title: Hydro Power

Outstanding Science Project About Forests sponsored by Pacific NW Research Station, USDA Forest Service

Prize includes: Plaque

Exhibit number: MS-BI-016 Student: Andrea Bugni of Eagle Creek Elementary School

Project title: An Investigation of Moss Growth on Eight Tree Species Near Estacada, Oregon

Outstanding Project by a 5th or 6th Grade Student sponsored by Pacific NW Society for Coating Technology

Prize includes: \$75 and trophy

Exhibit number: MS-PH-060 Student: Susannah Hershberg of The International School of Beaverton

Project title: Electromagnets: Experimental Results Show How The Electric Current and The Number of Turns Affects The Strength Of An Electromagnet

Outstanding Air Quality Project sponsored by Southwest Clean Air Agency

Prize includes: Plaque

Exhibit number: MS-EV-053 Student: Kirk Gulliver of Raleigh Hills K-8

Project title: CO2 in the Air

Outstanding Project in Water Quality sponsored by U.S. Geological Survey

Prize includes: T-shirt

Exhibit number: MS-EV-033 Student: Erica Jantzi of Grant Community School

Project title: Source of E. Coli in Water

Outstanding Project in Water Quality sponsored by U.S. Geological Survey

Prize includes: T-shirt

Exhibit number: MS-EV-023 Student: Lars Paulson and Nathan Lazaroff of Cheldelin Middle School

Project title: The Effects of Fertilizer on Nitrate Concentrations in Groundwater and Streams

Outstanding Use of the International System of Units sponsored by U.S. Metric Association

Prize includes: certificate and trophy

Exhibit number: MS-CE-026 Student: Sovijja Pou of Summa Academy South

Project title: Exploring the Properties of Gas

Project Best Illustrating Surgeon General's Health Recommendations sponsored by U.S. Public Health Service

Prize includes: Certificate and trophy

Exhibit number: MS-ME-032 Student: Anna Fernandez and Mikaela VanEaton of Inza R. Wood Middle School

Project title: Which three beverages will cause the most erosion on a sterile tooth, and which oral hygiene products will prevent it?