

Middle School Category Winners at the 2007 Intel Northwest Science Expo

Behavioral and Social Science Sponsored by Oregon Science Teachers Association

First Place

Exhibit number: MS-BE-017 Student: Tanya Bhardwaj of Rachel L. Carson Environmental Middle School
Project title: Hand and Body Coordination?!?!?

Second Place

Exhibit number: MS-BE-022 Student: Nicholas Hanson-Holtry of Summa Academy South
Project title: Who Has Better Muscle Memory?

Third Place

Exhibit number: MS-BE-011 Student: Kyle McNeil of Bridlemile Elementary School
Project title: Is There a Relationship Between Liking School and Playing Team Sports with Elementary School Students?

Honorable Mention

Exhibit number: MS-BE-007 Student: Aasav Prakash of Summa Academy North
Project title: A Method to Detect Lies Using Visual and Verbal Clues

Honorable Mention

Exhibit number: MS-BE-010 Student: Gabe Kauffman of Bridlemile Elementary School
Project title: Say What? A Project on Reverse Speech

Honorable Mention

Exhibit number: MS-BE-016 Student: Lisa Frueh of Rachel L. Carson Environmental Middle School
Project title: Memory...Can We Trust It?

Honorable Mention

Exhibit number: MS-BE-018 Student: Anna Vecchio of Rachel L. Carson Environmental Middle School
Project title: Pretty Pigs

Biology Sponsored by Academy of General Dentistry

First Place

Exhibit number: MS-BI-057 Student: Ryoko Hamaguchi of Summa Academy South

Project title: A Pinch of Salt Through the Base of Life ~A Twofold Cell Diffusion Investigation~

Second Place

Exhibit number: MS-BI-088 Student: Haley Stewart of West Sylvan Middle School

Project title: Gravitropism vs. Phototropism

Third Place

Exhibit number: MS-BI-059 Student: Nishant Karandikar of Summa Academy South

Project title: The pH Effect on E. Coli

Honorable Mention

Exhibit number: MS-BI-034 Student: Amber Tang of Sabin Elementary / ACCESS Program

Project title: Is It Clean Enough to Eat?

Honorable Mention

Exhibit number: MS-BI-080 Student: Belinda Niu of West Sylvan Middle School

Project title: The Effect of a Magnetic Field on Planaria Regeneration

Honorable Mention

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

Project title: Spices Fighting Bacteria

Honorable Mention

Exhibit number: MS-BI-092 Student: Claire Smith of Class Academy

Project title: Does Alpaca fleece vary with gender?

Chemistry and Earth Sponsored by AREVA

First Place

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

Project title: Exploring the Properties of Gas

Second Place

Exhibit number: MS-CE-024 Student: Christopher Ball of Winterhaven Middle School

Project title: Air Pressure and Elevation

Third Place

Exhibit number: MS-CE-023 Student: Mariah Bruns of Winterhaven Middle School

Project title: The Angle of Repose

Honorable Mention

Exhibit number: MS-CE-028 Student: Maggie Dreyer of Bend Science Station

Project title: Luminol Basics

Honorable Mention

Exhibit number: MS-CE-031 Student: Andrey Morozov of Rachel L. Carson Environmental Middle School

Project title: Look! It's rusting.

Honorable Mention

Exhibit number: MS-CE-044 Student: Rachel Cohen of Whitford Middle School

Project title: Pop Rocks

Consumer Products Testing Sponsored by AREVA

First Place

Exhibit number: MS-CP-034 Student: Breanne Davis of Valley Catholic Middle School

Project title: Its a Dirty Job, but Someone Needs to Know this Stuff

Second Place

Exhibit number: MS-CP-031 Student: Ashwin Malynur of Rachel L. Carson Environmental Middle School

Project title: Best Type of Siding

Third Place

Exhibit number: MS-CP-005 Student: Hannah Foster of Sabin Elementary / ACCESS Program

Project title: Corn Plastics: Boon or Myth?

Honorable Mention

Exhibit number: MS-CP-024 Student: Morgan Pengelly of Winterhaven Middle School

Project title: Egg Crusher

Honorable Mention

Exhibit number: MS-CP-030 Student: NingNing Wen and Tiffany Nguyen of Summa Academy South

Project title: Battle of the Antacids

Energy and Transportation Sponsored by Northwest Power and Conservation Council

First Place

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

Project title: Efficiency and CO2 Emission of Fuels

Second Place

Exhibit number: MS-ET-010 Student: Amy Jamsa and Madison Stadeli of Grant Community School

Project title: The Stamsa Water Wheel

Third Place

Exhibit number: MS-ET-011 Student: Alexander Hamel of St. Albert Catholic Science Club

Project title: Wind Wings Lift

Honorable Mention

Exhibit number: MS-ET-021 Student: Quincy Hayden of Bend Science Station

Project title: Passactive Solar

Honorable Mention

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

Project title: Hydro Power

Honorable Mention

Exhibit number: MS-ET-028 Student: Ben Stager of Valley Catholic Middle School

Project title: Wing Shape

Engineering Sponsored by AREVA

First Place

Exhibit number: MS-EG-034 Student: Justin Cheng of Summa Academy South
Project title: Search And Destroy, Robotic Soldier Using Infrared Heat Sensing

Second Place

Exhibit number: MS-EG-053 Student: Philip Aulie of Bend Science Station
Project title: Shin Shock

Third Place

Exhibit number: MS-EG-017 Student: Mighten Yip of Summa Academy North
Project title: A Novel Braking Technique for U.S. Navy Aircraft

Honorable Mention

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.

Honorable Mention

Exhibit number: MS-EG-013 Student: Claire Latscha and Jenna White of Cedar Park Middle School
Project title: Why does a concrete boat float?

Honorable Mention

Exhibit number: MS-EG-055 Student: Therese Chen of Valley Catholic Middle School
Project title: The Optimization of Electromagnetic Induction

Environmental Science Sponsored by Oregon Forest Resources Institute

First Place

Exhibit number: MS-EV-004 Student: Nathaniel Austin and Otto Seppalainen of Sabin Elementary / ACCESS Program

Project title: The Effect of Different Organic Materials on the Temperature of Compost

Second Place

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

Third Place

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

Project title: Source of E. Coli in Water

Honorable Mention

Exhibit number: MS-EV-043 Student: Sanika Gupte of Rachel L. Carson Environmental Middle School

Project title: Survival of the Hardest

Honorable Mention

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?

Honorable Mention

Exhibit number: MS-EV-057 Student: Leah Thompson and Zoe Jacobs of Arbor School

Project title: Does water pollution affect oleophilic bacteria's oil consumption rate?

Honorable Mention

Exhibit number: MS-EV-054 Student: Jack Lammers of Rosemont Ridge Middle School

Project title: Environmental impact of trash from one family.

Mathematical and Computer Sciences Sponsored by Madden Industrial Craftsmen

First Place

Exhibit number: MS-MC-005 Student: Ashley Wu of Summa Academy North

Project title: Improving Wireless Signals in Home Wireless Networks using Parabolic Antennas

Second Place

Exhibit number: MS-MC-008 Student: Howard Chung of Summa Academy South

Project title: A Mathematical Estimation of the Future Energy Output of the Visible Universe based on Heat Death and Recollapse Models

Third Place

Exhibit number: MS-MC-012 Student: Arushi Raghuvanshi of Valley Catholic Middle School

Project title: Programmable Braintenberg Vehicles with Digital and Quantum Circuits

Honorable Mention

Exhibit number: MS-MC-010 Student: Kirben Smoody and Wilven Smoody of KiWi School

Project title: Prime Density

Medicine and Health Sciences Sponsored by Oregon Health and Sciences University

First Place

Exhibit number: MS-ME-027 Student: Anna Gilles of Valley Catholic Middle School

Project title: Human Hair vs. Chlorine

Second Place

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

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

Third Place

Exhibit number: MS-ME-029 Student: Elliot Prince of Rosemont Ridge Middle School

Project title: Sleep Deprivation in Middle School Girls: Owls vs. Larks

Honorable Mention

Exhibit number: MS-ME-012 Student: Grace Wang of Summa Academy North

Project title: DNA Extraction

Honorable Mention

Exhibit number: MS-ME-020 Student: Teddy Korten Hof of Bridlemile Elementary School

Project title: Is Your Visual Attention Different If You Play A Sport?

Honorable Mention

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?

Physics and Astronomy Sponsored by AREVA

First Place

Exhibit number: MS-PH-047 Student: Brian Graham and Patrick Nikong of Summa Academy South
Project title: The Great Mercury Expedition

Second Place

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

Third Place

Exhibit number: MS-PH-069 Student: Adria Dortignacq of West Sylvan Middle School
Project title: Using Laser Diffraction to Measure Data Track Spacing in Data Discs

Honorable Mention

Exhibit number: MS-PH-050 Student: Vikram Kudva and Mattison Enloe of Summa Academy South
Project title: Lasers, Refraction, and Beyond

Honorable Mention

Exhibit number: MS-PH-034 Student: Aishwarya Vardhana of Valley Catholic Middle School
Project title: Genesis of Centripetal Force

Honorable Mention

Exhibit number: MS-PH-072 Student: Jonathon Stark of West Sylvan Middle School
Project title: The Flying Dragster