
2003 Intel NWSE Category Awards

High School

Behavioral & Social Sciences

<i>Award</i>	<i>Students</i>	<i>School</i>	<i>Teacher/Sponsor</i>	<i>Project Title</i>
1st	Iris Jeon	Oregon Episcopal Upper School	Peter Langley	Do Patterns in Numbers and Word Images Act as Aids to Memory?
2nd	Cindy Fulton, Athena Hinkle	Hillsboro High School	Steve Sears	Lateral Relationships in the Human Body
2nd	Lauren Westlund	Oregon Episcopal Upper School	Peter Langley	Comparison of Projectile Points from the Morand-1 Site and the Burnett Site
3rd	Jacob Reisberg	Oregon Episcopal Upper School	Bill Lamb	Exploration of Implicit Bias in Jury Decision Making
HM	Ann Bulskov	Gold Beach High School	Mary Omberg	Influence of 'Time of Day' on Learning New Motor Skills
HM	Leah Supulski	Grant Union High School	Randy Hennen	The Average Success and Most Effective Methods of Subliminal Messaging
HM	Kristina Rinella	Southridge High School	Joel Morgan	The Relationship Between Omega 3 Fish and Self Esteem in High School Adolescence
HM	Gabe Danilchik	Merto Station High School	Jennifer Guenther	The Color of Music
HM	Ryan Johnson	Skyview High School	Maelynn Anderson	Effects of Different Media on Learning and Memory Retention.
HM	Andy Clos	Skyview High School	Richard Clos	The Effects of Music On Reaction Time
HM	Danny Lee, Charles Lee, Jeff Chan	Southridge High School	Melissa Sanders	Can you determine if someone is lying or not by body language?

Biochemistry

<i>Award</i>	<i>Students</i>	<i>School</i>	<i>Teacher/Sponsor</i>	<i>Project Title</i>
1st	Holland MacLaurie	Gold Beach High School	Mary Omberg	Genotypic Separation in Noble Fir Populations from the Coast and Cascade Ranges of Oregon
2nd	Whetherly Cundiff	Southridge High School	Joel Morgan	Role of Creatine Kinase in Mammalian Tissue
3rd	Priya Bhatt	Oregon Episcopal Upper School	Bill Lamb	Analyzing and Comparing the Isozymes of Wild Type and Salt Tolerant Ceratopteris
HM	Jennifer Nguyen, Theresa Nguyen	Southridge High School	Melissa Sanders	Carrots: Boiled or Microwaved, Which Provides the Most Nutrition?
HM	Marina Lawson	Oregon Episcopal Upper School	Peter Langley	Synthesizing Organic Compounds Using Atmospheric Gases and Presumed Prehistoric Conditions
HM	Sergio Zenisek	Oregon Episcopal Upper School	Bill Lamb	Varying the Polyamino Base of Proteinoid and Polymer Microspheres

Botany

Award	Students	School	Teacher/Sponsor	Project Title
1st	Sam Asarnow	Oregon Episcopal Upper School	Peter Langley	Proteolytic Enzyme Production in the Insectivorous Plant Sundew (<i>Drosera adalae</i>) in Response to Prey Stimulation
2nd	Christa von Behren	Oregon Episcopal Upper School	Peter Langley	The Effect of Growth Rate on the Competitive Success of Epiphytic Crustose Lichens
3rd	Andrew Platt	Oregon Episcopal Upper School	Bill Lamb	Photosynthetic Variations in Marine Algae
3rd	Jennifer Bufford	Columbia River High School	Pam Lehrman	The Effect of Varying Hormones on Hazelnut Callus Growth
HM	Nicholas Horres	Merlo Station High School	James Gardner	Plant Shock
HM	Cami Wendlandt	Merlo Station High School	James Gardner	The Cucumis Genus and Moisture Holding Capacities

Chemistry

Award	Students	School	Teacher/Sponsor	Project Title
1st	Yvonne Yamanaka	Oregon Episcopal Upper School	Peter Langley	Synthesis and Evaluation of Molecularly Imprinted Polymers for the Enantiomeric Resolution of D- and L- Phenylalanine in Aqueous Solutions
2nd	Thomas Saiget	Oregon Episcopal Upper School	Peter Langley	The Effect of Different Length Alkanethiols on the Electrode Properties of their Self-Assembled Monolayers on Au(111)
3rd	Neil Lakin	Oregon Episcopal Upper School	Rosa Hemphill	Designing a Responsive Polymer Gel Artificial Muscle for Robotics and Prosthetics
3rd	Brittany Robbins	Gold Beach High School	Mary Omberg	Variables Influencing Electrokinetic Remediation of Heavy Metal Pollutants in Soil
HM	Eric Lundblade	Oregon Episcopal Upper School	Rosa Hemphill	Construction of a Dye-Sensitized Nanocrystalline TiO ₂ Energy Converter

Computer Sciences

Award	Students	School	Teacher/Sponsor	Project Title
1st	Nathan Matsuda	Catlin Gabel Upper School	Andrew Merrill	A Spline-Based Frame Interpolation Tool
	<i>Also receives:</i>	PSU College of Engineering and Computer Science Computer Sciences Scholarship	<i>Sponsored by:</i>	PSU College of Engineering and Computer Science
	<i>Also receives:</i>	Intel Excellence in Computer Science	<i>Sponsored by:</i>	Intel Corporation
				<i>Includes:</i> \$1500 scholarship
				<i>Includes:</i> \$200, certificate, memento
2nd	Robert Burgess	Merlo Station High School	James Gardner	Polynomial Regression on Two-dimensional Matrices for Storage and Compression of Images
3rd	Karl Kuchs	Oregon Episcopal Upper School	Bill Lamb	An Investigation of Group Robotics within a Colony Setting
HM	Kyle Kingsbury	Merlo Station High School	James Gardner	ChatX0r
HM	Jules Kongsle	Merlo Station High School	James Gardner	Exploration of Methods for Distributed Computing

Earth and Space Sciences

<i>Award</i>	<i>Students</i>	<i>School</i>	<i>Teacher/Sponsor</i>	<i>Project Title</i>
1st	Makely Lyon	Oregon Episcopal Upper School	Peter Langley	Correlation Analysis of Climatic Parameters by Latitude versus Galactic Cosmic Ray Flux and Solar Activity: Evidence for Naturally Caused Global Warming
2nd	Mariam Totonchy	Oregon Episcopal Upper School	Peter Langley	Correlating Volcanic Activity on Io with the Amount of Dust in the Jovian System from 1996-2002
3rd	Will Taylor	Gold Beach High School	Mary Omberg	Debris Flow Flume Testing Of Soil Stability Treatments
3rd	Allison Blackwell	Gold Beach High School	Mary Omberg	Correlation Analysis of Factors Which Predict Lightning Strikes
HM	Megan Delaney	Gold Beach High School	Mary Omberg	Simulation of Aurora Borealis
HM	Jennifer McKibben	West Salem High School	Steve Holman	The Influence of Substrate on Forensic Tire Tread Pattern Analysis

Engineering

<i>Award</i>	<i>Students</i>	<i>School</i>	<i>Teacher/Sponsor</i>	<i>Project Title</i>
1st	Michael Coulter	Oregon Episcopal Upper School	Peter Langley	Catalytic Growth of Zirconium Oxide Nanowires and their Electron Field Emission Properties
	<i>Also receives:</i>	PSU College of Engineering and Computer Science Engineering Scholarship	<i>Sponsored by:</i>	PSU College of Engineering and Computer Science
	<i>Also receives:</i>	CTL Corporation Award	<i>Sponsored by:</i>	CTL Corporation
			<i>Includes:</i>	Computer monitor
2nd	Parvathy Menon	Westview High School	Dave Ehrenkranz	Design and Fabrication of Planar Glucose Sensor Arrays
3rd	Kelsy Skinner	Gold Beach High School	Mary Omberg	The Use of Echinoderm Blueprints in Dome Design
HM	Doretta Dunham	Gold Beach High School	Mary Omberg	Zeolite as a protective coating for construction materials
HM	Jessica Winebarger	Skyview High School	Kris Vockler	Rheology Profiles of Thickening Agents in Water-Based Coatings
HM	Colin Platt	Oregon Episcopal Upper School	Bill Lamb	Creating a Cheaper Cosmic Ray Detector
HM	Saeyoon Baik, Paul Jang	Oregon Episcopal Upper School	Rosa Hemphill	A New Method of Manufacturing A Silicon Solar Cell
HM	Randy Herron	Southridge High School	Joel Morgan	Microlenses- An Application in Nano-scale Lithography

Environmental Sciences

<i>Award</i>	<i>Students</i>	<i>School</i>	<i>Teacher/Sponsor</i>	<i>Project Title</i>
1st	Mike Olson <i>Also receives:</i> Intel Excellence in Environmental Health and Safety	Gold Beach High School	Mary Omberg <i>Sponsored by:</i> Intel Corporation	Wildfire Sterilized Soils and Rhizosphere Recovery <i>Includes:</i> \$200, certificate, memento
2nd	Michael Chau	Oregon Episcopal Upper School	Peter Langley	The Effect of Ambient Temperature on the Degradation of Microcystin-LR Toxin
3rd	Katie Herbage	Gold Beach High School	Mary Omberg	Wood Fiber Filters as Water Contaminant Removal Systems
3rd	Colin Ackerman, Robert Davenport	Oregon Episcopal Upper School	Peter Langley	Are There Elevated Levels of Nitrate in the Fanno Creek Watershed From Golf Course Runoff?
HM	Stephanie Phillips	Oregon Episcopal Upper School	Rosa Hemphill	The Relationship Between Weather Conditions and Industrial Pollution
HM	Margaret Savinar	Oregon Episcopal Upper School	Diarmad Bash	Creating a New water Quality Index
HM	Brandon Nedwek	Southridge High School	Joel Morgan	Crop Density and its Impact on Ammonification in Monoculture Systems
HM	Tri Truong	Columbia River High School	Pam Lehrman	The Efficiency of Insulating a Room with Organic vs. Inorganic Materials
HM	Wesley Williams	Southridge High School	Joel Morgan	Affect of Water Vapor on Greenhous Gases

Gerontology

<i>Award</i>	<i>Students</i>	<i>School</i>	<i>Teacher/Sponsor</i>	<i>Project Title</i>
1st	Adrienne Chesser	Grant High School	Jacob Raber	Mechanisms Underlying the Isoform Specific Effects of ApoE on GR-mediated Transcriptional Activation
HM	Kevin Yoo, Alex R. Kim	Southridge High School	Joel Morgan	Building Memory: Fortification of Degenerated Central Neural Tissue and Reattachment of dissipated Nerual Connections

Large Team

<i>Award</i>	<i>Students</i>	<i>School</i>	<i>Teacher/Sponsor</i>	<i>Project Title</i>
3rd	Kent Saitoh, Thomas Bennett, Eli Kwitman, Matthew Wiest, Peter Farago, Randy Goossen, Joshua Sklar	Oregon Episcopal Upper School	Bill Lamb	Detecting Cosmic Ray Muons
3rd	Natasha Young, Nate Patton, Ryan Mobley, Duc Ho, Danielle Doolin	Benson High School	Jean Eames	Biological and Chemical Analysis of the Willamette River

Mathematics

<i>Award</i>	<i>Students</i>	<i>School</i>	<i>Teacher/Sponsor</i>	<i>Project Title</i>
1st	Chris Fallin, Anarghya Vardhana	Jesuit High School	John Gorman	The RSA Cryptosystem
2nd	Meredith McKenzie, Laura Ely	West Linn High School	Karen Kennedy	Heron's Formula

Medicine & Health

<i>Award</i>	<i>Students</i>	<i>School</i>	<i>Teacher/Sponsor</i>	<i>Project Title</i>
1st	Sasha Borodovsky	Oregon Episcopal Upper School	Peter Langley	Effects of Paroxetine, Imipramine and Lorazepam on the Heart Rate and Behavior of Daphnia magna
2nd	Rhea Edelman, Erin Frantz	West Linn High School	Larry Edelman	Effect of Exam Stress on Cortisol Levels
3rd	Eugene Kim	Columbia River High School	Kelly Cameron	A Comparison of Treatment Techniques for External-Beam Radiation Therapy Patients with Clinically Localized Prostate Cancer
3rd	Kristin Cummings	Southridge High School	Joel Morgan	How do the terminal diseases of those not taking anti-depressants progress in comparison with the terminal diseases of those who are taking anti-depressants?
3rd	Kelly Perry	Southridge High School	Joel Morgan	The Plausibility of the Construction and Distribution of an Automatic Antiretroviral Medication Delivery System
HM	Nasiema Wingate-Pearse	Skyview High School	Larry Fleckenstein	Cerebral White Matter Maturation in Perinatal Rodents
HM	Duy Minh Ha	Grant High School	Charles Martell	Quantitative Analysis of Brain and Ventricle Volume in Hormone Replacement Therapy
HM	Graham Hopkins	Oregon Episcopal Upper School	Rosa Hemphill	A Three-Dimensional Study of Fetal Cardiac Mass

Microbiology

<i>Award</i>	<i>Students</i>	<i>School</i>	<i>Teacher/Sponsor</i>	<i>Project Title</i>
1st	Hannah Hoffman	Gold Beach High School	Mary Omberg	Suppression of food-borne Pathogens using Dried Fruit Meat Additives
2nd	Briana Carp	Oregon Episcopal Upper School	Peter Langley	A Study of Two Disinfectants to Eliminate Pseudomonas fluorescens and Staphylococcus epidermidis Grown Planktonically and in Biofilms from Soft Contact Lenses
3rd	Scott Saiget	Oregon Episcopal Upper School	Bill Lamb	Producing Hydrogen from Chlamydomonas, Scenedesmus, and Chlorella
HM	Noah Morganstern	Oregon Episcopal Upper School	Rosa Hemphill	Studying the antibacterial properties of capsaicin
HM	Ben Holland	Grant Union High School	Sonna Smith	Bacterial Nosocomial Infections
HM	Brandon Aughenbaugh	Oregon Episcopal Upper School	Peter Langley	The Differences in Growth Rate and Colony Shape of Three Serratia Marcescens Mutants
HM	Tucker Page	Oregon Episcopal Upper School	Peter Langley	The Relationship Between pH and the Metabolism of the Thermophilic Bacterium, Bacillus stearothermophilus

Physics

<i>Award</i>	<i>Students</i>	<i>School</i>	<i>Teacher/Sponsor</i>	<i>Project Title</i>
1st	Vanessa Spini	Gold Beach High School	Mary Omberg	Absorption of Radioactive Isotopes Using Nature Zeolites
2nd	Lane Musgrave	Oregon Episcopal Upper School	Robert Orr	A Study of Flight: The Comparison of Lift Produced by Two Balsa Wood Model Wings
3rd	Jenny Wolochow, Benjamin Kaplin	Oregon Episcopal Upper School	Bill Lamb	Stress In Prince Rupert's Drops
HM	Shane McCauley	Southridge High School	Joel Morgan	The Affect of a Magnetic Field on a Moving Ferromagnetic Material
HM	Jon Roth	Merlo Station High School	James Gardner	Optimization of Trebuchet Ballistics
HM	Nicolas Coletto	Oregon Episcopal Upper School	Bill Lamb	Cold Fusion and Half Life
HM	Elysha Wiest	Oregon Episcopal Upper School	Robert Orr	Rotational Friction in Ballet Shoes

Zoology

<i>Award</i>	<i>Students</i>	<i>School</i>	<i>Teacher/Sponsor</i>	<i>Project Title</i>
1st	Jenna Schoof	Merlo Station High School	Jim Gardner	The Effects of Glucose on the Utilization of Creatine in Mice
2nd	Caroline Hilburn	West Salem High School	Steve Holman	A Proposed Method for Monarch Butterfly (<i>Danaus plexippus</i>) Tagging Using Phosphor Technology
3rd	Brian King	Oregon Episcopal Upper School	Peter Langley	Facilitation of Maze Learning in the Pill Bug, <i>Armadillidium Vulgare</i>
3rd	Ree Armstrong	Grant Union High School	Randy Hennen	The Health Effects of Surface Runoff of Winter Road Treatments on <i>Daphnia</i> Population
3rd	Monika Wieland	Merlo Station High School	Jim Gardner	Beneath the Waves: A Study of Boats and Orca Vocalizations
HM	Kaitlyn Hampton, Nicole Jackson	Gold Beach High School	Mary Omberg	Dynamics of Jellyfish Movement
HM	Florian Picchi-Dobson, Ozan Unlu	Oregon Episcopal Upper School	Peter Langley	Reproduction Rate of Mutant <i>Drosophila</i> Fruit Flies at Different Temperatures

Middle School

Behavioral & Social Sciences

<i>Award</i>	<i>Students</i>	<i>School</i>	<i>Teacher/Sponsor</i>	<i>Project Title</i>
1st	Lauren Gамbee	Hoover Elementary School	Janice Cox	Eyewitness Report
2nd	Katie ODonnell	St. John Fisher School	Andra Russell	Operant Conditioning: Mazes vs. Gender
3rd	Ahmad Abdelgader	Islamic School-Muslim Ed. Trust	Roomina Ahmed	Memories
3rd	Susie Herbage	Riley Creek Elem	Jodi Litterell	Impact of Pheromone Perfumes on People of Varying Ages
3rd	Alex Carey	Riley Creek Elem	Jodi Litterell	Can Your Body's Involuntary Nervous System be Affected by Other's Thoughts or Intentions?
HM	Michele Sinclair	North Middle School	Travis Reese	Get Out of My Space
HM	Sarah Bidwell	Christ the King Grade School	Jerry Meter	Stroop Effect
HM	Shayla Vistica	St. John Fisher School	Andra Russell	Age vs. Reflexes
HM	Ashley Loberg	St. John Fisher School	Andra Russell	The Effect of Music on the Brain
HM	Ali Foster	Grant Community School	Daniel Jamsa	Gender Differences and the Brain
HM	Lily Nagy-Deak	Eastham Community School	Donal Wilkinson	Does Age Affect Photographic Memory?
HM	Eric Foster	Grant Community School	Daniel Jamsa	Music and Activity and Mice
HM	Laila Wahedi	Highland Park Middle School	Karen Nelson	Diet and Memory

Botany

Award	Students	School	Teacher/Sponsor	Project Title
1st	Briana Mitchell	Highland Park Middle School	Karen Nelson	Zapped With Zinc
2nd	Kate Unterberger	St. John Fisher School	Andra Russell	The Effects of Used Water on Plant Growth
3rd	Lainie Gunsul	St. John Fisher School	Andra Russell	The Effects of Mycorrhizal on Plants
3rd	Taylor Gobel	St. Francis of Assisi School	Vicki Furtado	What is Better Natural or Chemical?
3rd	Rachel Devlin	St. John Fisher School	Andra Russell	Sound's Effect on Plants
HM	Mitzi Guzman	Grant Community School	Daniel Jamsa	Plants, Light, and Sugar.
HM	John Morrow, Andrew Parker, Anthony Talwalkar	Oregon Episcopal Middle School	Benno Lyon	Does Plant Fertilizer Affect the Growth Rate of Duckweed
HM	J.P. Bhatia	St. John Fisher School	Andra Russell	The Effects of Magnets on Radish Seed Growth
HM	Daniel Beiza, Jose Ku	Grant Community School	Daniel Jamsa	Plants and Light Color
HM	Daniel Helms	daVinci Arts Middle School	Peter Sweeney	Mediums Against Plants
HM	Hailee Smith, Emily Wilhite	North Marion Middle School	Julie Linder	Which Type of Plant will Curve Toward the Light?
HM	Raelyn Lewis, Tadd Lenon	North Marion Middle School	Julie Linder	Seeds and Plants
HM	Kassie Traapp	St. Francis of Assisi School	Vicki Furtado	The Affect of Crowding on Plant Growth

Chemistry

Award	Students	School	Teacher/Sponsor	Project Title
1st	Robert Baxter	Highland Park Middle School	Karen Nelson	Salinity Vs. Conductivity
	<i>Also receives:</i> Madden Industrial Craftsmen Award		<i>Sponsored by:</i> Madden Industrial Craftsmen	<i>Includes:</i> \$50
2nd	Alexis Shusterman, Emma Pfohman	WinterHaven Middle School	Wendy Archibald	WATER CONDUCTIVITY
3rd	Elliott Scheer, Nathan Hayes	Oregon Episcopal Middle School	Benno Lyon	Out of the Fuels Chosen, Which One Burns the Hottest?
HM	Justine Beaton	WinterHaven Middle School	Wendy Archibald	Curding Milk with Acid Liquid
HM	Jennifer Luong, Stephanie Howell	Oregon Episcopal Middle School	Benno Lyon	How Do Ice And Heat Affect The Temperature Of Different Chemicals?

Computer Sciences

Award	Students	School	Teacher/Sponsor	Project Title
1st	Andrew Mintner	Fowler Middle School	Sandra Mintner	FastDocument Update Helper: Software Update Manager
	<i>Also receives:</i> Madden Industrial Craftsmen Award		<i>Sponsored by:</i> Madden Industrial Craftsmen	<i>Includes:</i> \$50
2nd	Christina Phillips	Girl Scouts - Col. River Council	Ruthe Farmer	Soccer Referee Scheduling Application
3rd	Ahmed Aissi	Islamic School-Muslim Ed. Trust	Roomina Ahmed	Computing Cryptographic Prime Numbers Using Simple Techniques

Consumer Products Testing

<i>Award</i>	<i>Students</i>	<i>School</i>	<i>Teacher/Sponsor</i>	<i>Project Title</i>
1st	Kaylee Gaman	St. John Fisher School	Andra Russell	Do Aromas Make You Feel the Way They Advertise?
2nd	Matt Lee, Nitin Agrawal	Highland Park Middle School	Karen Nelson	Fluorescent or Incandescent
3rd	Valerie Rippey, Maryanne Seeley	Oregon Episcopal Middle School	Scott Hardister	A Hair Raising Experience
3rd	Stephen Morrison, Robert Inskeep, Phillip Hibbs	Oregon Episcopal Middle School	Scott Hardister	GolfBalls: Quality vs. Price
3rd	Amara Gamas	Pilgrim Lutheran School	Rebecca Stehle	Compared to other food, does honey spoil?
HM	Madeline Botteri	St. John Fisher School	Andra Russell	Which Household Material Used As Insulation Will Keep In the Most Heat?
HM	Katie Dobscha, Amy Catabay	daVinci Arts Middle School	Geoffrey Murdoch	The Effect of Mouthwashes on Salivary pH
HM	Karina Galvin	St. John Fisher School	Andra Russell	The Effects of Laundry Detergents on Stains
HM	Hannah Reid, Rebecca Reid	Highland Park Middle School	Karen Nelson	Diaper to Diaper
HM	Traci Vanaken	Visitation Grade School	Connie Saul	Egg Whites
HM	Lacy Kennedy	Visitation Grade School	Connie Saul	Shaving and Waxing
HM	Will Kellar	Leslie Middle School	Michael Rockow	Plop, Plop, Fizz, Fizz, Oh, What a Relief it is!
HM	Stephanie Labasan	St. John Fisher School	Andra Russell	Which Breakfast Cereal Contains the Most Iron?

Earth and Space Sciences

<i>Award</i>	<i>Students</i>	<i>School</i>	<i>Teacher/Sponsor</i>	<i>Project Title</i>
1st	PJ Sequeria	Leslie Middle School	Michael Rockow	What's Hot? What's Not?
	<i>Also receives:</i> Madden Industrial Craftsmen Award		<i>Sponsored by:</i> Madden Industrial Craftsmen	<i>Includes:</i> \$50
2nd	Murphy Pfohman	WinterHaven Middle School	Wendy Archibald	Red in the Sky
3rd	Mia Garrett, Christa Grauert, Katherine Turney	Oregon Episcopal Middle School	Angela Hancock	Ocean in Motion

Engineering

Award	Students	School	Teacher/Sponsor	Project Title
1st	Alicia Enriquez, Erika Schuartz	Girl Scouts - Col. River Council	Ruthe Farmer	Bass Space
	<i>Also receives:</i> Madden Industrial Craftsmen Award		<i>Sponsored by:</i> Madden Industrial Craftsmen	<i>Includes:</i> \$50
2nd	Tanner Mathison	Riley Creek Elem	Jodi Litterell	Turbine Axis Orientation - Is a Vertical Axis or a Horizontal Axis Wind Turbine more efficient at generating power
3rd	Marie Cox	Hoover Elementary School	Janice Cox	Handle With Care
3rd	Lenka Illicsin	Oregon Episcopal Middle School	Scott Hardister	Let there Be Light
3rd	Andrea Ness, Andrea Dickason	Girl Scouts - Col. River Council	Ruthe Farmer	Automated Water Dispenser for Small Rodents
3rd	Alan McCarthy	Visitation Grade School	Connie Saul	Structure Vs. Strength
HM	Brenda Benitez	Girl Scouts - Col. River Council	Ruthe Farmer	Two Clock Radios in One
HM	Kohle Kreitzberg	St. John Fisher School	Andra Russell	The Effect of Heat on the RPM of A Propeller
HM	Michael Lawrence	St. Francis of Assisi School	Vicki Furtado	The Stronger the Structure, the More Weight it can Hold
HM	Jonathan Davis	Grant Community School	Daniel Jamsa	A Better Hoverboard
HM	Jasmine Laris, Bibiana Ortiz, Rocio Ortiz	Grant Community School	Daniel Jamsa	The Strongest Bridge
HM	Carlos Estrada	Grant Community School	Daniel Jamsa	The Strongest Bridge
HM	Greta Mannen	St. Francis of Assisi School	Vicki Furtado	Insulation Effectiveness

Environmental Sciences

Award	Students	School	Teacher/Sponsor	Project Title
1st	Chris Ortigoza	Pilgrim Lutheran School	Rebecca Stehle	How does wind, rain, and temperature changes wear down and erode mountains?
2nd	Katie van Monter	daVinci Arts Middle School	Geoffrey Murdoch	How does glucose effect plants?
3rd	Erika Foster	St. John Fisher School	Andra Russell	Percolation and Infiltration Through Various Soil Types: How Water Moves Through Soil
HM	Annie Drinkward, Sia Kruss, Sam Shainsky	Oregon Episcopal Middle School	Scott Hardister	Let There Be Light
HM	Eric Larsen	St. John Fisher School	Andra Russell	Relationship of Temperature, Ph, Turbidity, and Dissolved Oxygen Levels to Weather Conditions in North Ash Creek.
HM	Allison Krause, Casey von Ofenheim, Sarah Canepa	Oregon Episcopal Middle School	Angela Hancock	The Days of Our Daphnia
HM	Brian Bellinger	Visitation Grade School	Connie Saul	Water vs. Water
HM	Mariea Mustafa, Aaya Yassin	Islamic School-Muslim Ed. Trust	Roomina Ahmed	Acid Rain, is it a problem?

Gerontology

<i>Award</i>	<i>Students</i>	<i>School</i>	<i>Teacher/Sponsor</i>	<i>Project Title</i>
1st	MaCall Marstall	Riley Creek Elem	Jodi Litterell	Does Solitary Living or Social Interactions and Gender of an Organism Affect its Life Span?
2nd	Kelly Sellers	WinterHaven Middle School	Wendy Archibald	How the Mozart Effect affects you
3rd	Sylvia Peterson-Perry, Emily Snyder	WinterHaven Middle School	Wendy Archibald	Act Your Age: Confidence By Age

Large Team

<i>Award</i>	<i>Students</i>	<i>School</i>	<i>Teacher/Sponsor</i>	<i>Project Title</i>
1st	Katie Van der Weele, Chris Chapman, Dylan Page, Zack Wadsworth	Oregon Episcopal Middle School	Angela Hancock	How Does Filtering Through Different Types of Media Affect the Ammonium and Nitrate Levels of Tap Water with Varying Amounts of Miracle Gro?
2nd	Gwynneth Johnson, Zach Hoffman, Annie Wolfstone, Erin Colton-Enberg	Oregon Episcopal Middle School	Angela Hancock	How does copper in the water affect the growth rate of frogs
3rd	Kari Davidson, Rahael Gupta, Cate Millar, Amy McMilan, Caroline Kokubun	Oregon Episcopal Middle School	Angela Hancock	How Do Different Rocks Affect the Neutralization of Acid Rain in Oregon and Hawaii?
HM	Nick Devich, Logan Johnston, Michael McCoy, Nick Chessar	Oregon Episcopal Middle School	Scott Hardister	Ultraviolet Protection

Mathematics

<i>Award</i>	<i>Students</i>	<i>School</i>	<i>Teacher/Sponsor</i>	<i>Project Title</i>
1st	Joseph Carpenter	WinterHaven Middle School	Wendy Archibald	Probability in a Bus System
2nd	Caroline Brickell	WinterHaven Middle School	Wendy Archibald	The mathematics of folding
2nd	Kevin Grove	WinterHaven Middle School	Wendy Archibald	Applied Euclidian Algebra
HM	Cassidy Slaughter-Mason	WinterHaven Middle School	Wendy Archibald	Iconographic Corrolation
HM	Noelle VanRysselberghe	WinterHaven Middle School	Wendy Archibald	The Coin Connection

Medicine & Health

<i>Award</i>	<i>Students</i>	<i>School</i>	<i>Teacher/Sponsor</i>	<i>Project Title</i>
1st	Eric Wilson, Alexander Tallian	Oregon Episcopal Middle School	Benno Lyon	The Voltage of Iontophoresis
2nd	Lauren Eyler	Oregon Episcopal Middle School	Scott Hardister	Metal Foils as Radon Barriers
2nd	Kasey Grewe, Jessica Tsao	Oregon Episcopal Middle School	Scott Hardister	The effects of tooth whiteners on teeth
3rd	Travis Royce, Max Bennet	WinterHaven Middle School	Wendy Archibald	The placebo effect of caffeine
HM	Tilli Armstrong	Mt. Vernon Middle School	Neil Bauer	Does Reading Certain Articles Raise Your Pulse?
HM	Halah Ilias	Highland Park Middle School	Karen Nelson	The Effect of Music on Blood Pressure and Heart Rate
HM	Megan Morey, Kelsey McArthur-Phillips	Oregon Episcopal Middle School	Scott Hardister	UVB
HM	Haley Elliott, Rebecca Wald, Annie Seder	Oregon Episcopal Middle School	Benno Lyon	How Do Different Drinks Affect Your Heart Rate After Exercising?
HM	Analy Gonzalez	Grant Community School	Daniel Jamsa	Exercise and Muscle Performance
HM	Micheal Loy, Harry Maizels, Todd Perkins	Oregon Episcopal Middle School	Benno Lyon	What Substance Cleans Teeth the Best?
HM	Amanda Blunt, Anel Gonzalez	Grant Community School	Daniel Jamsa	Smell and Sight

Microbiology

<i>Award</i>	<i>Students</i>	<i>School</i>	<i>Teacher/Sponsor</i>	<i>Project Title</i>
1st	Rebecca Holliday	Mt. Vernon Middle School	Neil Bauer	Effects of Mouthwash on Bacteria
2nd	Carling Leon, Alicia Furnary	Oregon Episcopal Middle School	Benno Lyon	Which Of The Four Schools at OES Has The Most Bacteria And In Which Places?
3rd	Jane Rall	St. John Fisher School	Andra Russell	Bacterial Resistance to Tetracycline, Pennicillin and Erythromycin
HM	Matt Eshelman, Geoff Groner	Oregon Episcopal Middle School	Benno Lyon	Which Water Source Will Grow the Most Bacteria
HM	Danielle Barry	Mt. Vernon Middle School	Neil Bauer	Which Mouthwash Works the Best to Kill Bacteria in the Mouth?
HM	Kelsey Vance	Leslie Middle School	Michael Rockow	Yuck, it's moldy!
HM	Madeline Duthie	Oregon Episcopal Middle School	Benno Lyon	Do Alkaline, Acidic, or Neutral Liquids Affect the Mold Growth Rate of Oranges?
HM	Emily Johns	Mt. Vernon Middle School	Deanna Nash	Mold

Physics

<i>Award</i>	<i>Students</i>	<i>School</i>	<i>Teacher/Sponsor</i>	<i>Project Title</i>
1st	Monica Sheer	Oregon Episcopal Middle School	Scott Hardister	Effect of Temperature on Solar Cells
2nd	Saskia Mariike Ilcisin, Jennifer Joy VanderWeele	Oregon Episcopal Middle School	Angela Hancock	How does air pressure in a soccer ball affect the distance it is kicked?
3rd	Krishna Veni	Highland Park Middle School	Karen Nelson	Materials Resistance to Heat Loss
3rd	Anlin Xue, Brian Liu	Stoller Middle School	Hongyong Xue	The Effect of Wind Speeds, Angles of Attack and Shape of Airfoils on the Lifting Force
HM	Denise Yeung	Highland Park Middle School	Karen Nelson	Parachute Size Vs. Object Weight
HM	Sarra Dasso	Christ the King Grade School	Jerry Meter	Singing Glasses
HM	Ravi Garg, Prakash Bhasker	Oregon Episcopal Middle School	Benno Lyon	What is the Effect of Voltage on the Electromagnetic field of an Electromagnet?
HM	Britta Ross	Oregon Episcopal Middle School	Scott Hardister	Slow Down!
HM	Elise Marsh, Sarah Kushner	Oregon Episcopal Middle School	Scott Hardister	Box Out
HM	Kelsi Fraley, Diane Grewe	Oregon Episcopal Middle School	Scott Hardister	Fintatstic Fins
HM	Max Chambers, Will Bland, Sean Gordon	Oregon Episcopal Middle School	Angela Hancock	Tsunami Splash Down
HM	Christopher Dentel	Our Lady of Lourdes	Steve Dentel	How Pulleys Make Our Lives Easier

Zoology

<i>Award</i>	<i>Students</i>	<i>School</i>	<i>Teacher/Sponsor</i>	<i>Project Title</i>
1st	Lauren Cox	Hedrick Middle School	Janice Alayne Cox	The effects of overpopulation on guppies
2nd	Torben Noto, Hunter Bellville	Oregon Episcopal Middle School	Benno Lyon	What Fruit Flies Like Best and at What Age
3rd	Sarah El-Aghil, Maryam Houdroge, Lina Tarhuni	Islamic School-Muslim Ed. Trust	Roomina Ahmed	Does the Fish's Habitat Effect its Daily Activities? (diet, energy, sleep, etc)
3rd	Brittany Molina	Highland Park Middle School	Karen Nelson	Antraction
3rd	Aaron Cooper	St. John Fisher School	Andra Russell	Effects of Different Media on Mealworm Development
HM	Addy Heilman, Ashley Thomas	daVinci Arts Middle School	Peter Sweeney	How Good Could these Things Really Be?