

2011 Intel NWSE Award Results

Submitted by Stephanie on Mon, 04/04/2011 - 11:13am

Special award results are in separate PDF's.

Middle School Category Winners

Category	Place	Exhibit No	Title	Student List	Organization	Adult Sponsor
Animal Science and Microbiology	First Place	MS-AM-0039	What Does Calcium Have To Do With Bone Strength and Bone Mass?	Utsav Ghosh	Stoller Middle School	Eloise Grout
Animal Science and Microbiology	Second Place	MS-AM-0001	Mouthwashes or Herbal Extracts	Divya Sridharan	Valley Catholic Middle School	June Poling
Animal Science and Microbiology	Third Place	MS-AM-0006	Wondrous Webs	Joshua Hauser	Winterhaven Middle School	Wendy Archibald
Animal Science and Microbiology	Honorable Mention	MS-AM-0005	Snails on Steroids	Michael DeKock	Bend Science Station	Danny Martin
Animal Science and Microbiology	Honorable Mention	MS-AM-0024	Does Dental Hygiene Affect the Bacteria Count in a Dog's Mouth?	Rohan Moore	ACCESS	Alfonso Garcia Arriola
Behavioral and Social Science	First Place	MS-BE-0005	Commonalities in Writing Characteristics	Arman Talkar	Summa Academy South	Toni West
Behavioral and Social Science	Second Place	MS-BE-0017	Blink! - Influence of surroundings on blinking	Chaitanya Karamchedu	Stoller Middle School	Kirk Koehler
Behavioral and Social Science	Third Place	MS-BE-0008	Who has it hardest? Parent's opinions about birth order	Megan Mastrorilli	Bridlemile Elementary School	Larry Sherman
Behavioral and Social Science	Honorable Mention	MS-BE-0006	How Senses Affect Memory	Dominique Lund	Summa Academy South	Toni West
Behavioral and Social Science	Honorable Mention	MS-BE-0019	3D vs. 2D	Sofia Basauri	Rachel Carson Environmental Middle School	Rebecca Hall
Behavioral and Social Science	Honorable Mention	MS-BE-0020	True Colors	Aleena Pember	Rachel Carson Environmental Middle School	Rebecca Hall
Behavioral and Social Science	Honorable Mention	MS-BE-0043	Testing memorization from print and digital media	Grace Glisson	Arbor School	Jane Lindquist
Chemistry	First Place	MS-CH-0004	How Does the Temperature of a Glow Stick Affect How Bright it Glows?	Brett Zonick	Winterhaven Middle School	William Thompson

Chemistry	Second Place	MS-CH-0018	Don't Bug Me	Scarlet Disko	Raleigh Hills K-8	Elise Cohen
Chemistry	Third Place	MS-CH-0008	Observing Extracted DNA	Swati Garg	Summa Academy North	Susan Duncan
Chemistry	Honorable Mention	MS-CH-0024	Voltaic Cells	Gayatri Paranjape	Summa Academy South	Toni West
Chemistry	Honorable Mention	MS-CH-0011	Go Bananas!	Kendra Bailey, Cally Kennedy	Visitation School	Mrs. Carol Funk
Chemistry	Honorable Mention	MS-CH-0019	Concrete Strength	Eleanor Franks	Raleigh Hills K-8	Elise Cohen
Chemistry	Honorable Mention	MS-CH-0036	Pesticide Presence?	Maya Payton	Yamhill Carlton School District	Lisa Jacobs
Consumer Products Testing	First Place	MS-CP-0021	Chemical Cereal	Michael Ioffe	ACCESS	Alfonso Garcia Arriola
Consumer Products Testing	Second Place	MS-CP-0022	Coppertops: How much money can you save using heat from the human body?	Jamieson Wells	Whitford Middle School	Carolee Dearborn
Consumer Products Testing	Third Place	MS-CP-0004	Can All Paints Be Eco-friendly?	Phoebe Mol	Winterhaven Middle School	Wendy Archibald
Consumer Products Testing	Honorable Mention	MS-CP-0005	Do green bags really keep lettuce from decaying for a longer period of time than other methods of storing lettuce.	Max McCool	Winterhaven Middle School	Wendy Archibald
Consumer Products Testing	Honorable Mention	MS-CP-0017	Store Bough Cottage Cheese vs Homemade Cottage Cheese	Dylan Morgan, Cesar Caballero, Thomas Schaap, Andrew Medina	Stephens Middle School	Maribel Villalobos
Earth Science	First Place	MS-EA-0006	On Finding the Relationship between Solar Flares and CMEs	Joshua Kam	Summa Academy North	Susan Duncan
Earth Science	Second Place	MS-EA-0002	Effect of Carbon Dioxide on Deposition of Silica Dioxide on Cyanobacteria	Anna Wang	Summa Academy South	Toni West
Earth Science	Third Place	MS-EA-0007	Earthquake magnitudes varying as a function of distance from the epicenter	Mahita Tovinkere	Stoller Middle School	Kirk Koehler

			- Simulation using sound waves			
Earth Science	Honorable Mention	MS-EA-0010	Fire, Fire, Wood on Fire	Paolo Casas	SUMMA West	Pamela Svenson
Earth Science	Honorable Mention	MS-EA-0008	Winds of Change	Sean Walters	Portland Lutheran School	Kieffer Tarbell
Earth Science	Honorable Mention	MS-EA-0004	The Effect of Carbon Dioxide on Temperature	Amir Jafari	Whitford Middle School	Carolee Dearborn
Earth Science	Honorable Mention	MS-EA-0001	Which soil types resist soil liquefaction?	Lorien Deyo-Rivera, Karen LaGesse, Emily Midyette	Lighthouse School	Timothy Neeno
Earth Science	Honorable Mention	MS-EA-0009	Tidal Wave of Terror	Isabel Bloch	Raleigh Hills K-8	Elise Cohen
Energy and Transportation	First Place	MS-ET-0046	Cone Drag	Suzanne Schadel	Valley Catholic Middle School	June Poling
Energy and Transportation	Second Place	MS-ET-0008	Fuel of the Future : A Journey towards n-Butanol using a Bio-Electrical Reactor : An Answer to our Energy Crisis	Preeyam Roy	Summa Academy South	Toni West
Energy and Transportation	Third Place	MS-ET-0022	Comparison Studies of Heating Efficiency	Raymond Luo	ACCESS	Alfonso Garcia Arriola
Energy and Transportation	Third Place Tie	MS-ET-0045	How Different Sizes of Winglets Affect an Airplane's Range	Joshua Cheng	Valley Catholic Middle School	June Poling
Energy and Transportation	Honorable Mention	MS-ET-0015	Wave Energy: The Power of the Waves	Nicky Han	Summa Academy North	Susan Duncan
Engineering	First Place	MS-EG-0043	Parkinson's Disease - Stance Simulator	Prathyoosha Chaya	SUMMA West	Pamela Svenson
Engineering	Second Place	MS-EG-0014	Design of a portable antimicrobial water filtration device using polyurethane coated with silver nanoparticles	Anirudh Jain	Summa Academy North	Susan Duncan
Engineering	Third Place	MS-EG-0052	Conserving Earth's Water	Alisha Zhao	East Sylvan Middle School	Joe Blowers
Engineering	Honorable Mention	MS-EG-0038	The NXT Clean Thing	Ben Viehoff	Raleigh Hills K-8	Elise Cohen

Engineering	Honorable Mention	MS-EG-0036	Build a Bookshelf, Save a Tree	Bridget Hanchek	Raleigh Hills K-8	Elise Cohen
Engineering	Honorable Mention	MS-EG-0028	The Shootin' Range	Joshua Pauls	Zion Lutheran School	Tiffany Smith
Engineering	Honorable Mention	MS-EG-0060	Does the insulating power of aerogel differ from the power of the leading fiberglass insulation?	Mario Sarich	Cathedral School	Liane Rae
Environmental Science	First Place	MS-EV-0015	Water Quality	Parker Benner	Summa Academy North	Susan Duncan
Environmental Science	Second Place	MS-EV-0010	The slope of roofs and rainwater collection efficiency.	Kyle Andrews	Whitford Middle School	Carolee Dearborn
Environmental Science	Third Place	MS-EV-0007	Effectiveness of Hydrocarbonoclastic Microbes on Degradation of Motor Oil	Sharon Zhang	Summa Academy South	Toni West
Environmental Science	Honorable Mention	MS-EV-0045	Is Albany's Erosion Control Working?	Taylor Johnson	Memorial Middle School	Michael Baker
Environmental Science	Honorable Mention	MS-EV-0036	Eco Air Conditioning	Chris Galluzzo	Rachel Carson Environmental Middle School	Rebecca Hall
Environmental Science	Honorable Mention	MS-EV-0009	The Effect of Different Fertilizer Compositions on Algae Growth	Tara Sengupta	Summa Academy South	Toni West
Environmental Science	Honorable Mention	MS-EV-0047	Which organic material will absorb the most oil from contaminated saline by mass	Truman Rae	Cathedral School	Liane Rae
Environmental Science	Honorable Mention	MS-EV-0008	Soak it up	Meredith Sauer	Summa Academy South	Toni West
Mathematics and Computer Science	First Place	MS-MC-0002	To Guess or Not to Guess? Statistics of Guessing on Multiple Choice Tests	Daniar Imanbayev	Lake Oswego Junior High	Cathy Steele
Mathematics and Computer Science	Second Place	MS-MC-0006	Know Your Song by its curve	Uma Doshi	Summa Academy North	Susan Duncan
Mathematics and Computer Science	Third Place	MS-MC-0017	Genetic Algorithms in a Robot Applications: Darwinian versus Lamarckian	Alan Cheng	Summa Academy South	Toni West
Mathematics and Computer Science	Honorable Mention	MS-MC-0007	Implementing and tuning the PID control to improve the performance of a	Hersh Godse	Summa Academy North	Susan Duncan

			sensor based feedback loop process.			
Mathematics and Computer Science	Honorable Mention	MS-MC-0015	Color Image Edge Detection Using Clifford Algebra	Anika Raghuvanshi	Valley Catholic Middle School	June Poling
Medicine and Health Sciences	First Place	MS-ME-0028	Drosophila Diet	Kyra Patton	Rachel Carson Environmental Middle School	Rebecca Hall
Medicine and Health Sciences	Second Place	MS-ME-0009	Disinfect To Protect	Taylor LaBonte, Alex Funk	Visitation School	Mrs. Carol Funk
Medicine and Health Sciences	Third Place	MS-ME-0001	Determining the effect of HOXA9 on Myeloproliferative neoplasm Diseases	Varsha Kalavar	Valley Catholic Middle School	June Poling
Medicine and Health Sciences	Honorable Mention	MS-ME-0002	The effect of sugars and sugar substitutes on the growth of dental bacteria	Matthew Finney-Jordet	Bend Science Station	Danny Martin
Medicine and Health Sciences	Honorable Mention	MS-ME-0015	Designing an Artificial Aortic Valve	Snigdha Kanadibhotla, Priyanka Mathur	SUMMA West	Pamela Svenson
Medicine and Health Sciences	Honorable Mention	MS-ME-0020	Fingerprints	Nourhan Shams	Oregon Islamic Academy	Sahar Bassyouni
Medicine and Health Sciences	Honorable Mention	MS-ME-0025	Loss of SNF5 in Schwann Cells Up-Regulates TRPV1 in Sensory Neurons	Ben Sherman	West Sylvan Middle School	Joe Habes
Physics: Electromagnetic	First Place	MS-PE-0007	Measuring the Response of Ferrofluids to an Exterior Magnetic Field	Peter Graham	Summa Academy South	Toni West
Physics: Electromagnetic	Second Place	MS-PE-0009	FP-LMTO PLW Calculations of Electronic Band Structure for LED Materials: Gallium Phosphide, Zinc Selenide, and Boron Nitride	Valerie Ding	Summa Academy North	Susan Duncan
Physics: Electromagnetic	Third Place	MS-PE-0024	Does Distance affct the force exerted by gravity or magnetism more?	Drew Ligman	Cathedral School	Liane Rae
Physics: Electromagnetic	Honorable Mention	MS-PE-0008	Electromagnetic Sheilding: A summary of defending against an unseen enemy	David He	Summa Academy North	Susan Duncan
Physics: Electromagnetic	Honorable Mention	MS-PE-0017	Electromagnetic Motors	Alex Zdanowicz	Valley Catholic Middle School	June Poling
Physics: Electromagnetic	Honorable Mention	MS-PE-0018	Gravity Battery vs. Potato Battery	Jennah Curfman	Valley Catholic Middle School	June Poling

Physics: Mechanical	First Place	MS- PM- 0032	Heavy vs. Light Which One is Safer?	Peter Seger	Valley Catholic Middle School	June Poling
Physics: Mechanical	Second Place	MS- PM- 0028	Moisture Affects the Pitch of a Piano	Dahlia Jones	ACCESS	Alfonso Garcia Arriola
Physics: Mechanical	Third Place	MS- PM- 0004	Softball Pitching	Julia Clark	Leslie Middle School	Michael Rockow
Physics: Mechanical	Honorable Mention	MS- PM- 0002	Can a Badgir be Adapted for Cooling, Dehumidification and Water Collection?	Amira Smith	Winterhaven Middle School	Wendy Archibald
Physics: Mechanical	Honorable Mention	MS- PM- 0019	Calculating and Comparing Seebeck Coefficients	Tahsin Saffat, Eric Wang	Summa Academy North	Susan Duncan
Physics: Mechanical	Honorable Mention	MS- PM- 0026	UP UP AND AWAY	Josh Bamberger	Raleigh Hills K-8	Elise Cohen
Physics: Mechanical	Honorable Mention	MS- PM- 0007	Capturing and Displaying Ambient Sound Energy	Abrar Haque	Summa Academy South	Toni West
Physics: Mechanical	Honorable Mention	MS- PM- 0011	Sympathetic Vibrations	Lara Rakocevic	Summa Academy North	Susan Duncan
Plant Sciences	First Place	MS- PL- 0013	Alpha Amylase in Germinating Seeds and its Application in Detergents	Maneet Khaira	Summa Academy South	Toni West
Plant Sciences	Second Place	MS- PL- 0011	The Effect of Magnetism on Plant Growth	Eric Byun	Inza R. Wood Middle School	Kathleen Gregg
Plant Sciences	Third Place	MS- PL- 0021	Paper Possibilities	Addy Pratt	Raleigh Hills K-8	Elise Cohen
Plant Sciences	Honorable Mention	MS- PL- 0008	What type of manure makes plants grow the best?	George LaGessee, Rich Rigney	Lighthouse School	Timothy Neeno
Plant Sciences	Honorable Mention	MS- PL- 0015	The Effects of Magnetism on the Growth of Wheat	Daniel Hughes	Summa Academy North	Susan Duncan
Plant Sciences	Honorable Mention	MS- PL- 0022	Oil Spills Kill Plants	Tristen Wong	ACCESS	Alfonso Garcia Arriola
Plant Sciences	Honorable Mention	MS- PL- 0032	How does the color of light affect pea growth?	Maya Ahluwalia, Hannah Ahluwalia	Evergreen Middle School	Lia Cunningham

High School Category Awards

Category	Place	Exhibit No	Title	Student List	Organization	Adult Sponsor
Animal Sciences	First Place	HS-AN-0038	The Territorial Roaming Patterns of Felis Catus (The Domestic Cat)	Savannah Tobin	West Salem High School	Michael Lampert
Animal Sciences	Second Place	HS-AN-0037	The Effect of Heated and Unheated Aspartame on Vanessa cardui Growth and Survivorship	Irene Peaks	Bend Science Station	David Bermudez
Animal Sciences	Third Place	HS-AN-0044	Examining and Modelling Culex Mosquito Behavior in Turbulent Airflow via Computational Fluid Dynamics	David Choi, Ryan Choi, Alexander La	Sunset High School	John Sheu
Animal Sciences	Honorable Mention	HS-AN-0030	The Effects of Lecithin on the Nutritional Behavior of Caenorhabditis elegans (wild strand, dpy-11 strand and bli-1 strand)	Tori Graf	Hillsboro High School	Steve Sears
Behavioral and Social Science	First Place	HS-BE-0160	Analysis of Fluctuating Trends in the Decay and Progression of Public Interest in News Events, Periodicity and Emotions over Time	Shawn Meacham	West Salem High School	Michael Lampert
Behavioral and Social Science	Second Place	HS-BE-0091	The Effects of Bilingualism On Working Memory Capacity and Early Reading Progress	Katie Welgan	St. Mary's Academy	Stephanie Welgan
Behavioral and Social Science	Third Place	HS-BE-0170	Observation of the distance an automobile travels within an unoccupied bike lane as apposed to the distance an automobile travels	Kadie Clark, Alex Costello	Wilsonville High School	Jay Schauer
Behavioral and Social Science	Honorable Mention	HS-BE-0148	It is all about me (and Glee): A Language Analysis of Pronoun Usage and Emotional Content in Popular Songs	Annelise Cummings	Cleveland High School	Ronda Royal, Ph.D.
Biochemistry	First Place	HS-BC-0011	Antimicrobial Activity and Anticancer Potential of Curcuma longa and Cuminum cyminum	Pratyusa Mukherjee	Westview High School	Debbie Cooper
Biochemistry	Second Place	HS-BC-0010	Chemical Analysis of Alzheimer's Combatting Centella asiatica	Arjun Kandaswamy, Andrei Secasiu	Westview High School	Debbie Cooper
Cellular and Molecular Biology	First Place	HS-CM-0003	Is SS31 a potential therapeutic target for Alzheimer's disease?	Teja Reddy	Merlo Station High School	Joel Laney

Cellular and Molecular Biology	Second Place	HS-CM-0015	The Anticancer and Antioxidant Potential of Curcumin in SKN Neuroblastoma and 3T3 Fibroblast Cells	Antonia Elsen	Oregon Episcopal School	Peter Langley
Cellular and Molecular Biology	Third Place	HS-CM-0008	Multimodal Confocal Mosaicing: Advancing Skin Cancer Detection, Part 2	Nathaniel Chen	Merlo Station High School	Joel Laney
Cellular and Molecular Biology	Honorable Mention	HS-CM-0006	The effect of nanoparticle size on uptake in ARPE-19 cells	Thomas Hady	Oregon Episcopal School	Peter Langley
Chemistry	First Place	HS-CH-0024	From Models to Medications: Identification of Medication Leads for Treating Methamphetamine Addiction Through Computer Modeling and Cell Culture Assays	Yamini Naidu	Valley Catholic High School	Michael Seiwald
Chemistry	Second Place	HS-CH-0030	Sustainable Cyclical Energy Harvesting Concept for Ocean Sensing	James Siderius	West Linn High School	Nancy Monson
Chemistry	Third Place	HS-CH-0047	Renewably powering rural areas that are unconnected to the central electrical grid	Vijay Edupuganti, Noah Rischitelli	Oregon Episcopal School	Catherine Molloseau
Chemistry	Honorable Mention	HS-CH-0007	Caffeine content in tea leaves and the process effects	Joe Hsia	Oregon Episcopal School	Bevin Daglen
Computer Science	First Place	HS-CO-0017	Novel Algorithms for Automatic Music Transcription	Vighnesh Shiv	Catlin Gabel School	Andrew Merrill
Computer Science	Second Place	HS-CO-0010	The Multimodal Real-Time Recognition of Emotion in Human Speech	Matthew Fernandez, Akash Krishnan	Oregon Episcopal School	Peter Langley
Computer Science	Third Place	HS-CO-0020	Using Formal Verification Techniques to Find Contradictions in Laws Concerning Police Use of Force	Terrance Sun, Lawrence Sun	Catlin Gabel School	Andrew Merrill
Computer Science	Honorable Mention	HS-CO-0001	AI Meets the VA: Artificial Intelligence Navigates Robotic Transporter Through Hospitals of Any Size	Tesca Fitzgerald	Estacada Early College Academy	Ami Fitzgerald
Earth Science	First Place	HS-EA-0014	The Variability of Danger to Glaciers Posed by Greenhouse Gases	Max Abrams, Rita Somogyi	Oregon Episcopal School	Bevin Daglen
Energy and Transportation	First Place	HS-ET-0046	Improving the Generation of Electricity and the Treatment of Wastewater in a Novel Dual-Chambered Mediatorless Microbial Fuel Cell	Ajay Krishnan	Oregon Episcopal School	Catherine Molloseau

Energy and Transportation	Second Place	HS-ET-0050	Rocketry: A Science of Chemically Balanced Propulsion	Alex Chabert	Oregon Episcopal School	Bevin Daglen
Energy and Transportation	Third Place	HS-ET-0042	Performance of Polyhedral Wings	Quincy Hayden	Bend Science Station	David Bermudez
Energy and Transportation	Honorable Mention	HS-ET-0045	Does a point absorbance wave energy conversion hold any viability in the field of electrical generation?	Alex Greer	Liberty High School	Dr. Milt Scholl
Engineering: Electrical and Mechanical	First Place	HS-EE-0024	Inertial Electrostatic Confinement Fusion Focused with Electrostatic Focusing Lenses	Forrest Betton, Eric Thomas, Demitri Hopkins	Merlo Station High School	Joel Laney
Engineering: Electrical and Mechanical	Second Place	HS-EE-0051	Road Detection via Computer Vision and Laser Scanning	Rohan Jhunjunwala	Catlin Gabel School	Andrew Merrill
Engineering: Electrical and Mechanical	Third Place	HS-EE-0016	The Best Pinhole Camera	XiZi Hua	Oregon Episcopal School	Robert Orr
Engineering: Electrical and Mechanical	Honorable Mention	HS-EE-0034	Using a Centrifuge to Clean Motor Oil	Sean Klein, Camden Singrey, Henry Simon	Wilson High School	Tristan Wagner
Engineering: Electrical and Mechanical	Honorable Mention	HS-EE-0015	Studying the react of EM wave when interfered by metal dielectric	Shu Tsai	Oregon Episcopal School	Robert Orr
Engineering: Materials and Bioengineering	First Place	HS-EM-0003	Creating Porous TiO ₂ Nanoparticles to Improve the Charge Carrier Efficiency of Photoelectrochemical Cells	Ayush Gupta	Oregon Episcopal School	Peter Langley
Engineering: Materials and Bioengineering	Second Place	HS-EM-0035	The Effect of Polymer Solution Temperatures upon Electrospun Fibers	Aida Behmard	West Salem High School	Michael Lampert
Engineering: Materials and Bioengineering	Third Place	HS-EM-0015	Eco-Designs: Reflective Roofing Solutions	Jenna Wiegand	Wilsonville High School	Kris Troha
Engineering: Materials and Bioengineering	Honorable Mention	HS-EM-0002	Titanium Dioxide Nanotubes on the Strength of Cyperus Alternifolius	Kyle Walters, Anna Rischitelli	Oregon Episcopal School	Bevin Daglen
Engineering: Materials and Bioengineering	Honorable Mention	HS-EM-0012	Using M.R. Fluids For Structural Mitigation	Daniel Blanc-Gonnet	West Linn High School	Jeff Bilyeu
Environmental Analysis and Effects	First Place	HS-VA-0080	Techniques for Identifying and Separating Polyethylene Microbeads and Other Plastics from Coastal Estuaries	Kyla Martichuski, Andy Siemens	West Salem High School	Michael Lampert

Environmental Analysis and Effects	Second Place	HS-VA-0002	Effects of Simulated Climate Change in an Open Air Environment on Arbuscular Mycorrhizal Fungi in <i>Zea mays indentata</i>	Kiernan Garrett, Alessandra Elliott	Merlo Station High School	Joel Laney
Environmental Analysis and Effects	Third Place	HS-VA-0086	Pulse Responses of Soil CO ₂ Efflux to Rain Events in a Ponderosa Pine Forest in Central Oregon	Lipi Gupta	Crescent Valley High School	Adam Kirsch
Environmental Analysis and Effects	Honorable Mention	HS-VA-0072	Water Filtration and Purification	Alicia Nunziato	Gresham High School	Kathy Childress
Environmental Analysis and Effects	Honorable Mention	HS-VA-0045	The Effect of Estrogen, Acetaminophen, and Atorvastatin Calcium on the Regeneration of Planaria	Jane Crotteau	Wilsonville High School	Jim Oconnell
Environmental Analysis and Effects	Honorable Mention	HS-VA-0049	The Allelopathic Effects of <i>Umbellularia Californica</i> (California Laurel) Plant Extracts on the Germination of Various Garden Mustards	Scott Rocha	Tillamook High School	Clair Thomas
Environmental Management	First Place	HS-VM-0041	Methods for Rotifer Control in Algal Growth Cultures Using a Novel Technique to Predict Rotifer Attacks and Potential Biocide Formulations	Alex Yuan	Oregon Episcopal School	Peter Langley
Environmental Management	Second Place	HS-VM-0036	Biochar Carbon Sequestration: A Study on the Effects of Temperature and Methods of Production on the Stability of Different Chars	Meghana Rao	Jesuit High School	Anita Rao
Environmental Management	Third Place	HS-VM-0027	Creating a Resilient Community; Integrating a Social Perspective into Flood Risk Modeling, Vulnerability Mitigation, and Economic Optimization	Raghav Tripathi, Adarsh Patra, Sidharth Sengupta	Westview High School	Debbie Cooper
Environmental Management	Honorable Mention	HS-VM-0009	The Effect of Organoclay on the Degradation of Hexadecane by <i>Alcanivorax borkumensis</i>	Chad Drinkward	Oregon Episcopal School	Peter Langley
Mathematical Sciences	First Place	HS-MA-0015	A Novel Method for Factorization of Semiprimes using Weierstrass and Edwards Elliptic Curves Stage 2	Aishwarya Vardhana	Jesuit High School	Ananda Vardhana
Mathematical Sciences	Second Place	HS-MA-0002	Modeling the Twisted Savonius Wind Turbine Geometrically and Simplifying its Construction	Nick Halsey	Oregon Episcopal School	Peter Langley

Mathematical Sciences	Third Place	HS-MA-0003	A Mathematical Analysis of Rare Earth Elements Price Projection and its Impact on the cost of Green Energy	Harsha Uppili	Oregon Episcopal School	Catherine Molloseau
Mathematical Sciences	Honorable Mention	HS-MA-0004	Locating Metamers to Aid in Color Based Identification	Kushal Agarwal	Crescent Valley High School	Ryan Kanter
Medicine and Health Sciences	First Place	HS-ME-0017	Evaluation of margining algorithms in commercial treatment planning systems for tumor volumes typical in stereotactic body radiotherapy and radiosurgery	Kelly Carson	Oregon Episcopal School	Peter Langley
Medicine and Health Sciences	Second Place	HS-ME-0079	Determining the Effect of Myeloproliferative Neoplasm Associated Mutation, JAK2V617F, on Lymphoid Development	Meghana Kalavar	Jesuit High School	Jyothi Kalavar
Medicine and Health Sciences	Third Place	HS-ME-0081	An Experimental Study of the Impact of Airborne Pollutants on the Peak Expiratory Flow (PEF) Rate of Asthmatic Subjects plus	Naomi Shah	Sunset High School	Chetan Shah
Medicine and Health Sciences	Honorable Mention	HS-ME-0049	Potential mechanisms for chemotherapy-related and irradiation-related cognitive deficits: hyaluronan regulation of neural stem cells	Sabrina Levy	West Linn High School	Rosy Levy
Microbiology	First Place	HS-MI-0037	Investigating Acyl-homoserine Lactone Based Quorum Sensing Dependency in Mucoic and Nonmucoic Pseudomonas aeruginosa Biofilm Development	Spencer Chang	West Linn High School	Jonathan Davies
Microbiology	Second Place	HS-MI-0042	Insoluble Pyomelanin Mediated Electron Transfer within Microbial Communities of Shewanella oneidensis	Richik Neogi	Westview High School	Debbie Cooper
Microbiology	Third Place	HS-MI-0029	Evaluation of antibacterial and antifungal activity of rhamnolipid biosurfactants produced by Pseudomonas aeruginosa NY3	Claire Park, Ellen Yin	Crescent Valley High School	Adam Kirsch
Microbiology	Honorable Mention	HS-MI-0031	Brushing your teeth with bacteria!	Safia Alattar, Hedaya Alattar	Adventure Homeschool	Manar Alattar
Microbiology	Honorable Mention	HS-MI-0018	Effects of Polyphosphate Additives on E. coli Growth Rate in Chicken Breast	Gavin Wray, Eric Chang	Oregon Episcopal School	Peter Langley

Physics and Astronomy	First Place	HS-PH-0062	The Effect of Tracking Error on the Measurement of Exoplanet Light Curves	Brian Graham	Southridge High School	Bradford Hill
Physics and Astronomy	Second Place	HS-PH-0040	Low Cost X-Ray Spectroscopy As a Non-Destructive Metal Surface Analysis	Katie Reinders	Oregon Episcopal School	Catherine Molloseau
Physics and Astronomy	Third Place	HS-PH-0070	Singing Glass	Qianwei Zhu	West Linn High School	Shawn McDevitt
Physics and Astronomy	Honorable Mention	HS-PH-0098	Astrometric Measurements of the Double Star Epsilon Pegasi	Aaron Gupta, Andrew Stout	Oregon Episcopal School	Bevin Daglen
Plant Sciences	First Place	HS-PL-0056	Rubus armeniacus Endophytes: Implications for and applications to biological control	Ann Bernert	West Linn High School	Kathleen Bernert
Plant Sciences	Second Place	HS-PL-0026	Biological Control of Meloidogyne chitwoodi: Host Status and Paecilomyces lilacinus Fungal Parasitization	Heidi Wade	Crescent Valley High School	Adam Kirsch
Plant Sciences	Third Place	HS-PL-0025	Dual Fuel Power: Maximizing Photosynthetic Hydrogen Production and Biofuel Yield from Microalgae	Vinay Iyengar	Oregon Episcopal School	Catherine Molloseau
Plant Sciences	Honorable Mention	HS-PL-0011	To Test the Effect of Compost tea on the Growth of Brassica rapa and Ryegrass	James Lavery	Oregon Episcopal School	Peter Langley