

Special Award	Award Sponsor	Student List	Organization	Adult Sponsor
Best of Fair-Life	The Sawyer Family	Joan Hady	Oregon Episcopal School	Bevin Daglen
Best of Fair-Physical	The Sawyer Family	Sahil Veeramoney	Oregon Episcopal School	Bevin Daglen
ISEF Finalist	Northwest Science Expo System	Evan Lavery, Grant Kresge	Oregon Episcopal School, Wilsonville High School	Peter Langley
ISEF Finalist	Northwest Science Expo System	Krista Wurscher	West Linn High School	Monica Emerick
ISEF Finalist	Northwest Science Expo System	Valerie Ding	Catlin Gabel School	Veronica Ledoux
ISEF Finalist	Northwest Science Expo System	Nikhil Murthy	Catlin Gabel School	Veronica Ledoux
ISEF Finalist	Northwest Science Expo System	Joan Hady	Oregon Episcopal School	Bevin Daglen
ISEF Finalist	Northwest Science Expo System	Chaitanya Karamchedu	Jesuit High School	Katherine Foulke
OSU College of Engineering Scholarship	Oregon State University	Clemen Deng	Lincoln High School	Yuchen Huang
OSU College of Engineering Scholarship	Oregon State University	Lydia VanWinkle	West Linn High School	Michael Glane

OSU General Scholarship	Oregon State University	Austin Gardner	Gresham High School	Kathy Childress
OSU General Scholarship	Oregon State University	Tlell Wolf	Bend Science Station	David Bermudez
OSU General Scholarship	Oregon State University	Raley Schweinfurth	Oregon Episcopal School	Catherine Molloseau
University of Oregon Scholarships	University of Oregon	Krista Wurscher	West Linn High School	Monica Emerick
University of Oregon Scholarships	University of Oregon	Amiette Baskerville	West Linn High School	Julia Betts
University of Oregon Scholarships	University of Oregon	Chaitanya Karamchedu	Jesuit High School	Katherine Foulke
University of Portland Scholarships	University of Portland	Taylor Browning	Tillamook High School	Clair Thomas
University of Portland Scholarships	University of Portland	Tlell Wolf	Bend Science Station	David Bermudez
Army Awards for Scientific and Engineering Excellence	Army Research Office, U.S. Army	Peter Armstrong	Catlin Gabel School	Veronica Ledoux
Army Awards for Scientific and	Army Research Office, U.S. Army	Dylan Martins	West Linn High School	Julia Betts

Engineering Excellence				
ASU Walton Sustainability Solutions Initiatives	Arizona State University	Aneesh Mysore	Westview High School	Debbie Cooper
ASU Walton Sustainability Solutions Initiatives	Arizona State University	Leo Deng	Jesuit High School	Yuchen Huang
Award for Excellence in Scientific Research in Environmental Health	Oregon Environmental Health Association	Mayur Paralkar, Mihir Paralkar	Tigard High School	Prasanna Paralkar
IEEE Special Awards	IEEE Oregon	Joshua Clark	Oregon Episcopal School	Peter Langley
IEEE Special Awards	IEEE Oregon	Anna-Maria Hartner, Kaylene Lim	West Linn High School	Nancy Monson
IEEE Special Awards	IEEE Oregon	Tanner Asher	West Linn High School	Shawn McDevitt
IEEE Special Awards	IEEE Oregon	Pushkar Shinde	Oregon Episcopal School	Catherine Molloseau
IEEE Special Awards	IEEE Oregon	Aditya Jain	Westview High School	Debbie Cooper
IEEE Special Awards	IEEE Oregon	Mackenna Koppler	West Linn High School	Michael Glane
IEEE Special Awards	IEEE Oregon	Katie Fo	Southridge High School	David Holz

Intel Excellence in Computer Science	Intel Corporation	Clemen Deng	Lincoln High School	Yuchen Huang
Mu Alpha Theta Award	Mu Alpha Theta	Aditya Sivakumar	Beaverton High School	Mike Blok
Naval Excellence in Science and Engineering Award	Office of Naval Research, US Navy and Marine Corps	Cole Fuller	Bend Science Station	David Bermudez
Naval Excellence in Science and Engineering Award	Office of Naval Research, US Navy and Marine Corps	Aditya Sivakumar	Beaverton High School	Mike Blok
Naval Excellence in Science and Engineering Award	Office of Naval Research, US Navy and Marine Corps	Ben Clark	Oregon Episcopal School	Catherine Molloseau
Naval Excellence in Science and Engineering Award	Office of Naval Research, US Navy and Marine Corps	Chaitanya Karamchedu	Jesuit High School	Katherine Foulke
NOAA's Taking the Pulse of the Planet	National Oceanic and Atmospheric Administration	Bryan To	Oregon Episcopal School	Catherine Molloseau
Outstanding Applied or Practical Chemistry Project by a Junior or Senior	Portland Industrial Chemists' Association/American Chemical Society	Valerie Ding	Catlin Gabel School	Veronica Ledoux

Outstanding Aquatic Related Environmental Science Project	Lake Oswego Corporation	Aneesh Mysore	Westview High School	Debbie Cooper
Outstanding Chemistry Project	American Chemical Society, Portland Section	Nikhil Murthy	Catlin Gabel School	Veronica Ledoux
Outstanding Chemistry Related Project	Iota Sigma Pi	Raley Schweinfurth	Oregon Episcopal School	Catherine Molloseau
Outstanding Geoscience Project	Association Of Women Geoscientists	Lydia VanWinkle	West Linn High School	Michael Glane
Outstanding Natural Resources Science Project	Pacific NW Research Station, USDA Forest Service	Sabrina Polman	Tillamook High School	Clair Thomas
Outstanding Project by an 11th Grade Student	Yale University Science and Engineering Association	Evan Lavery, Grant Kresge	Oregon Episcopal School, Wilsonville High School	Peter Langley
Outstanding Project in an Atmospheric Science Exhibit	American Meteorological Society	Kestrel Bailey	Tillamook High School	Clair Thomas
Outstanding Project in In Vitro Biology	Society for in Vitro Biology	Naomi Zhao	Oregon Episcopal School	Catherine Molloseau
Outstanding Project in Materials Science	ASM International Foundation	Max Luu	Catlin Gabel School	Veronica Ledoux

Outstanding Research in Psychology	American Psychological Association	Samuel Cassidy	Arts and Technology High School	William Lee
Outstanding Use of the International System of Units	U.S. Metric Association	Aneesh Mysore	Westview High School	Debbie Cooper
Outstanding Use of the International System of Units	U.S. Metric Association	Swati Garg	Westview High School	Debbie Cooper
Outstanding Use of the International System of Units	U.S. Metric Association	Joan Hady	Oregon Episcopal School	Bevin Daglen
Sustainable Development Award	Ricoh Corporation	Max Luu	Catlin Gabel School	Veronica Ledoux
TiE Oregon Entrepreneurship Honorable Mention	TiE Oregon	Max Luu	Catlin Gabel School	Veronica Ledoux
TiE Oregon Entrepreneurship Honorable Mention	TiE Oregon	Nikhil Murthy	Catlin Gabel School	Veronica Ledoux
TiE Oregon Entrepreneurship Honorable Mention	TiE Oregon	Anirudh Jain	Catlin Gabel School	Veronica Ledoux

TiE Oregon Entrepreneurship Honorable Mention	TiE Oregon	Pushkar Shinde	Oregon Episcopal School	Catherine Molloseau
TiE Oregon Outstanding Entrepreneurship Projects	TiE Oregon	Peter Armstrong	Catlin Gabel School	Veronica Ledoux
TiE Oregon Outstanding Entrepreneurship Projects	TiE Oregon	Aditya Jain	Westview High School	Debbie Cooper
TiE Oregon Outstanding Entrepreneurship Projects	TiE Oregon	Joan Hady	Oregon Episcopal School	Bevin Daglen
TiE Oregon Outstanding Entrepreneurship Projects	TiE Oregon	Arnob Das	Jesuit High School	Sabita Roy
TiE Oregon Student Membership	TiE Oregon	Lauren Cooper	Lake Oswego High School	Shandiz Tehrani
TiE Oregon Student Membership	TiE Oregon	Ben Chan, Calvin McHenry	West Linn High School	Jonathan Davies
TiE Oregon Student Membership	TiE Oregon	Ajitha Mallidi	Westview High School	Debbie Cooper
TiE Oregon Student	TiE Oregon	Gene Martin	Trinity Lutheran School	Thomas Stueve

Membership				
TiE Oregon Student Membership	TiE Oregon	Alan Cheng	Southridge High School	David Holz
TiE Oregon Student Membership	TiE Oregon	Luke Goertzen, Spencer Aeschliman	West Salem High School	Jonathan Williams
TiE Oregon Student Membership	TiE Oregon	Priyanka Mathur	Jesuit High School	Katherine Foulke
TiE Oregon Student Membership	TiE Oregon	Robin Tan	Jesuit High School	Marek Perkowski
TiE Oregon Student Membership	TiE Oregon	Yiling Liu	Lincoln High School	Amala Soumyanath
Tom Owen Award for Excellence in Statistics	Oregon Chapter of the American Statistical Association	Clemen Deng	Lincoln High School	Yuchen Huang
Tom Owen Award for Excellence in Statistics	Oregon Chapter of the American Statistical Association	Samuel Cassidy	Arts and Technology High School	William Lee
Tom Owen Award for Excellence in Statistics	Oregon Chapter of the American Statistical Association	Robin Tan	Jesuit High School	Marek Perkowski
U.S. Air Force	U.S. Air Force	Leah Hanen	Crescent Valley High School	Adam Kirsch

Outstanding Project				
U.S. Air Force Outstanding Project	U.S. Air Force	Gabe Sutherland	Oregon Episcopal School	Ryan Holland
U.S. Air Force Outstanding Project	U.S. Air Force	Alan Cheng	Southridge High School	David Holz
U.S. Air Force Outstanding Project	U.S. Air Force	Graham O'Connor	Oregon Episcopal School	Chad Gilton
U.S. Regional Stockholm Junior Water Prize	Water Environment Federation	Sabrina Polman	Tillamook High School	Clair Thomas
U.S. Regional Stockholm Junior Water Prize	Water Environment Federation	Arianna Rahimian, Elise Kuechle	Oregon Episcopal School	Bevin Daglen
Vardhana Innovative Presentation	The Vardhana Family	Grace Converse, Aileen Converse	West Linn High School	Jon Isensee

Category	Place	Title	Student List	Organization	Adult Sponsor
Animal Sciences	First Place	Pisaster Disaster: Population Infection Dynamics of Sea-Star Wasting Disease in <i>Pisaster ochraceus</i>	Cole Fuller	Bend Science Station	David Bermudez
Animal Sciences	Second Place	Giant Frogs in Bend: Phenotypic Plasticity in Oregon Spotted Frogs (<i>Rana pretiosa</i>).	Tlell Wolf	Bend Science Station	David Bermudez
Animal	Third Place	The Effects of a Higher Male	Sara Reed	Oregon Episcopal School	Peter Langley

Sciences		Population in Caenorhabditis elegans			
Behavioral and Social Science	First Place	A Novel Animal Model to Replicate Alcohol-Seeking Behavior in Humans	Ajitha Mallidi	Westview High School	Debbie Cooper
Behavioral and Social Science	Second Place	Concussion Symptoms in Relation to Brain Maturity	Krista Wurscher	West Linn High School	Monica Emerick
Behavioral and Social Science	Third Place	Capacity Limits of Working Memory: The Impact of Multitasking on Cognitive Control	Alexandra Ulmer, Sarayu Caulfield	Oregon Episcopal School	Peter Langley
Behavioral and Social Science	Honorable Mention	Comparing the Personality Traits of Dog Owners and Parents	Austin Gardner	Gresham High School	Kathy Childress
Behavioral and Social Science	Honorable Mention	The Effects of Cell Phone Cameras on Ethical and Cooperative Behavior	Samuel Cassidy	Arts and Technology High School	William Lee
Biochemistry	First Place	A Novel Treatment for Rheumatoid Arthritis Using RORyt Gene Silencing	Anirudh Jain	Catlin Gabel School	Veronica Ledoux
Biochemistry	Second Place	Treating Alzheimer's Disease: New Proposal for Grayanotoxin Ligand Binding to the Carbonic Anhydrase I Receptor	Nandini Naidu	Valley Catholic High School	MohanKumar Naidu
Biochemistry	Third Place	Investigating Adaptive and Medicinal Radiation Hormesis in Drosophila Melanogaster	Rohan Guliani	The School of Science and Technology	Joel Laney
Biochemistry	Honorable Mention	Calcium Retention in Drosophila Melanogaster	Riley Knowles	West Linn High School	Nancy Monson
Biochemistry	Honorable Mention	Metallic Signaling: A Novel Copper-Mediated Mechanism for Prevention of Oxidative Damage in the Brain Extracellular Space	Abhijit Mudigonda	Westview High School	Debbie Cooper

Cellular and Molecular Biology	First Place	Effect of Soybean Phytoestrogen and Estrogen on the Growth of MCF-7 Human Breast Cancer Cells	Naomi Zhao	Oregon Episcopal School	Catherine Molloseau
Cellular and Molecular Biology	Second Place	The Effect of Experimentally Elevated Intraocular Pressure on the Phosphorylation of Cortactin in a Rat Model of Glaucoma	Lauren Cooper	Lake Oswego High School	Shandiz Tehrani
Cellular and Molecular Biology	Third Place	Induction of Autophagy in Neurons: Novel Insights into Prophylactic Treatments for Stroke	Apoorva Somayazulu	Westview High School	Debbie Cooper
Cellular and Molecular Biology	Honorable Mention	Piperine: A Novel Treatment for Melanoma	Yiling Liu	Lincoln High School	Amala Soumyanath
Chemistry	First Place	Carbon Dioxide Reduction using a Novel Electrochemical Method	Nikhil Murthy	Catlin Gabel School	Veronica Ledoux
Chemistry	Second Place	High Performance Liquid Chromatography (HPLC) Analysis of Dinotefuran Contamination in Honey	Raley Schweinfurth	Oregon Episcopal School	Catherine Molloseau
Chemistry	Third Place	A Novel 3D Polymeric Nanoparticle Network for Detecting and Remediating Trace Level Toxic Free Radicals	Arnob Das	Jesuit High School	Sabita Roy
Chemistry	Honorable Mention	Utilizing Photochromic Compounds for Use as a Pigmentation Additive	Cyrus Johannes	Oregon Episcopal School	Peter Langley
Computer Science and Robotics	First Place	Development of A General Data Mining Methodology based on a Novel Weighted Hierarchical Adaptive Voting Ensemble Method and Its Applications	Clemen Deng	Lincoln High School	Yuchen Huang

Computer Science and Robotics	Second Place	It's A Matter of Life and Breath: Novel Computer Diagnosis Tool for Lung Cancer SPN Classification towards Big Data Analysis	Aditya Jain	Westview High School	Debbie Cooper
Computer Science and Robotics	Third Place	Analysis and Identification of Relative Pitch	Katie Fo	Southridge High School	David Holz
Computer Science and Robotics	Honorable Mention	Determining the Effect of Imprinting vs. Random Selection of S2 Prototypes from the Caltech 101 Image Corpus on Classification Accuracy	Chandler Watson	Oregon Episcopal School	Bevin Daglen
Energy and Environmental Engineering	First Place	The Development of an Oleophilic and Hydrophobic Polystyrene Synthetic Polymer Coated Cotton for High Efficiency Marine Oil Spill Absorption	Sahil Veeramoney	Oregon Episcopal School	Bevin Daglen
Energy and Environmental Engineering	Second Place	Novel Automated Designs and Rapid Multivariate Optimization of Next-Generation Multijunction Quantum Dot Solar Cells	Valerie Ding	Catlin Gabel School	Veronica Ledoux
Energy and Environmental Engineering	Third Place	The Use of Chitosan to Clean Copper and Chromium Ions from Industrial Sewage	Jessie Lin	Oregon Episcopal School	Peter Langley
Energy and Environmental Engineering	Honorable Mention	Designing a Compost Pile to Create Long Term Heat for Heating Water for a Radiant Heating System in a Greenhouse.	Huston Beene'	Tillamook High School	Clair Thomas
Engineering: Bioengineering and Materials	First Place	Invention of efficient upper and lower limb prosthetic fitting system	Peter Armstrong	Catlin Gabel School	Veronica Ledoux
Engineering:	Second Place	Fabrication, Characterization,	Vineet Edupuganti	Oregon Episcopal School	Bevin Daglen

Bioengineering and Materials		and Modeling of an RRAM-based Synapse for Neuromorphic Applications			
Engineering: Bioengineering and Materials	Third Place	An Alternative to the Plastic Recycling Process Using 3D Printing	Max Luu	Catlin Gabel School	Veronica Ledoux
Engineering: Bioengineering and Materials	Honorable Mention	Examination of the Hyperthermic Properties of Ferrofluid in Conjunction with Traditional Medicine Localization for Tumor Reduction	Samuel Laurin, Sung-Jun Byun	Wilsonville High School	Jay Schauer
Engineering: Electrical and Mechanical	First Place	A Novel Human Machine Interface: Hardware Implementation of the Kalman Filter with Faddeev's Algorithm for Advanced Co-Processing	Alan Cheng	Southridge High School	David Holz
Engineering: Electrical and Mechanical	Second Place	Use of Venturi Tube and Optical Sensors in Remote Control Multi-Rotor to Monitor Crop Health and Deliver Precision Agricultural Treatments	Gabe Sutherland	Oregon Episcopal School	Ryan Holland
Engineering: Electrical and Mechanical	Third Place	Power In The Pipes	Tanner Asher	West Linn High School	Shawn McDevitt
Engineering: Electrical and Mechanical	Honorable Mention	An Innovative Method for Protecting Optical and Sensory Devices on NASA's Curiosity Martian and Other Terrestrial Rovers Using Electrostatic Properties	Ashwin Datta	Glencoe High School	Susan Weidkamp
Engineering: Electrical and Mechanical	Honorable Mention	Intelligent Sports Machines, Test Case: Tennis Ball Machine	Pushkar Shinde	Oregon Episcopal School	Catherine Molloseau
Environmental	First Place	Dynamics of Algal Bloom	Aneesh Mysore	Westview High School	Debbie Cooper

and Earth Sciences		Development through National Dataset Analysis, microcosm Experimentation and Environmental Education			
Environmental and Earth Sciences	Second Place	Using Nanorust to Trace Contaminated Water due to Hydraulic Fracking	Lydia VanWinkle	West Linn High School	Michael Glane
Environmental and Earth Sciences	Third Place	A Novel Forest Fire Prediction Tool Utilizing Historical Weather Data and Machine Learning Methods	Leo Deng	Jesuit High School	Yuchen Huang
Environmental and Earth Sciences	Honorable Mention	A novel approach to the modeling of enhanced radon source terms from soils and the predicted radon concentrations in homes	Mayur Paralkar, Mihir Paralkar	Tigard High School	Prasanna Paralkar
Mathematical Sciences	First Place	Parallel Implementation of the Convolution Operation in Quotient Polynomial Rings for the NTRU Cryptosystem	Vikul Gupta	Oregon Episcopal School	Peter Langley
Mathematical Sciences	Second Place	Predicting Real-World Outcomes in Football Games Based upon Past Performance II	Alex Williams	Oregon Episcopal School	Bettina Gregg
Mathematical Sciences	Third Place	A Novel Generic Method Utilizing Base Transformations to Determine Divisibility of Arbitrary Integers	Aditya Sivakumar	Beaverton High School	Mike Blok
Mathematical Sciences	Honorable Mention	Heuristically proving Goldbach's conjecture by comparing the growth of partitions and evens at maximal prime gaps.	Erich Kramer	Wilsonville High School	Jay Schauer
Mathematical Sciences	Honorable Mention	A novel approach to develop a deterministic random bit	Brady Testa	The School of Science and Technology	Joel Laney

		generator			
Medicine and Health Sciences	First Place	Respiratory Illness Diagnosis Through Time and Spectral Base Sound Analysis	Joan Hady	Oregon Episcopal School	Bevin Daglen
Medicine and Health Sciences	Second Place	The Alzheimer's Disease Climatic Relationship Explained by Hypovitaminosis D	Talia Lichtenberg	West Linn High School	Nancy Monson
Medicine and Health Sciences	Third Place	Effects of Citalopram Hydrobromide, on the Sleep, Activity, and Cognitive Ability of Adult Drosophila melanogaster, Consumed During Larvae Developmental Stages	Benjamin Sebastian, Daniel Tang	West Linn High School	Nancy Monson
Medicine and Health Sciences	Honorable Mention	The Effect of Headgear on Soccer Ball Impact and Concussion Risk	Riley Johnson, Nicole Laschober	Wilsonville High School	Jay Schauer
Microbiology	First Place	The Transmembrane Permease Lpg0730 is Integral to the Ability of Legionella pneumophila to Infect Protozoan Host Cells	Nicholas Miller	West Linn High School	Julia Betts
Microbiology	Second Place	The Effectiveness of Astaxanthin as a Non-carcinogenic Sunscreen	Amiette Baskerville	West Linn High School	Julia Betts
Microbiology	Third Place	Metanomic exploration of the syntrophic relationship between Honey Bee endosymbionts Gilliamella apicola and Snodgrassella alvi under preventative antibiotic resistance	Dylan Martins	West Linn High School	Julia Betts
Microbiology	Honorable Mention	Bacterial Water Filter ---The Use of Halobacterium for Water Desalination	Beth Hoots	West Linn High School	Julia Betts

Physics and Astronomy	First Place	Assessing the Photometry of GSC 03144-00595: a Radially Pulsating, Delta Scuti, Triple Mode Variable Star	Evan Lavery, Grant Kresge	Oregon Episcopal School, Wilsonville High School	Peter Langley
Physics and Astronomy	Second Place	Slayer Exciter	Valentin Kolarov	Southridge High School	David Holz
Physics and Astronomy	Third Place	Spectroscopy of Orion Constellation	Sarah Maazouz	Liberty High School	Dr. Milt Scholl
Physics and Astronomy	Honorable Mention	Loosen Up, Tune In	Audrey Leong	Southridge High School	David Holz
Plant Sciences	First Place	A Novel Quantification of complex geometries of plants using fractal analysis to develop a new and unique allometry of plants	Chaitanya Karamchedu	Jesuit High School	Katherine Foulke
Plant Sciences	Second Place	The Effects of Color Exposure on Callitriche Heterophylla's growth	Kelly Lai	Oregon Episcopal School	Catherine Molloseau
Plant Sciences	Third Place	Using a Chlorophyll Solution as a Fruit Preservative	Jake Collie, Alejandra Blackmore	Oregon Episcopal School	Bevin Daglen
Plant Sciences	Honorable Mention	Breaking Dormancy With Electromagnetic Radiation	Jane Schlendorf	Oregon Episcopal School	Peter Langley