

SLVSEF 2014 - Senior Division			
Category and Rank	Name	School	Project Title
Animal Sciences - First	Kathy Liu	West High	The Effects of Salicylic Acid-treated Poultry Litter on Eutrophication and Health of <i>Daphnia magna</i>
Animal Sciences - Second	Tyrell Floyd	SLCSE (Salt Lake Center for Science Education)	The Effect of Pollution on Bee Navigation
Animal Sciences - Third	Kiersten Hathaway	Entheos Expeditionary Learning	Predicting Mule Deer Winter Habitat Using GIS
Behavioral & Social Sciences - First	Calvin Yu	Hillcrest High	Neighborhood Built Environment and No Leisure-time Physical Activity Participation in Utah
Behavioral & Social Sciences - Second	Kate Bradford	Juan Diego Catholic High	Cognitive Impairment and Behavioral Testing in a Mouse Model of Epilepsy
Behavioral & Social Sciences - Third	Carter Cocke & Ian Kligman	AMES High School	Psychology of Driving
Biochemistry - First	Yuxiao Wei	West High	Investigation of the interaction between HIV matrix and EPRS linker
Biochemistry - Second	Brenyn Beesley	American Preparatory Academy	How religion effects you Perception
Biochemistry - Third	Evie Edwards & Cali Keizer	Treasure Mountain International	Got Electrolytes
Cellular & Molecular Biology - First	Naveen Rathi	Hillcrest High	Vector Analysis: The Effects of Docking a PDMS Microfluidic Device on a Monolayer of SKOV3 Carcinoma Cell Viability
Cellular & Molecular Biology - Second	Amanda Jiang	West High	The Effect of SCF and TPO Proteins on the Differentiation of Stem Cells Into Blood Cells
Cellular & Molecular Biology - Third	Chelsea Li	West High	DNA damage and response to UV radiation in human melanocytes
Chemistry - First	Erik Perez	Juan Diego Catholic High	Synergistic Inhibition of Lymphoid-specific Protein Tyrosine Phosphatase (LYP)
Chemistry - Second	DaEun Sung	West High	Yeast on the Run
Chemistry - Third	Jacob Hillard	AMES High School	Effects of HighVoltage on Solutions
Computer Science - First	Anthony Cheng	Hillcrest High	Analysis of Montane Rainforest Dwellings with Computer Vision
Computer Science - First*	Patrick Chen & William Guss	West High	Automated Diagnosis of Breast Cancer Using Artificial Intelligence - Through the Implementation of Neural Networks
Computer Science - Second	Jessica Ivie	Entheos Expeditionary Learning	Building on Blockly: Leveraging an Open-Source Project by Google to Create an Intuitive Visual Interface for Programming
Computer Science - Third	Rohan Jairam	West High	eGuard! - An Android App For Personal Safety
Earth & Planetary Science - First	Nityam Rathi	Hillcrest High	Post-Wildfire Soil Recovery: Evaluation of Soil Reconditioning to Promote Seed Germination and Plant Growth
Earth & Planetary Science - Second	Courtney Pratt	AMES High School	impactite characteristics of river gravel
Engineering: Electrical & Mechanical - First	Brandon Cui	Hillcrest High	Demonstration and Characterization of Terahertz Waveguides in Split Ring Resonators
Engineering: Electrical & Mechanical - Second	David Elliott, Jack Weis & Emad Jabini	West High	Development of an Autonomous GPS-Guided Security Robot
Engineering: Electrical & Mechanical - Third	Ian Miller	West High	Trashcan Telepresence
Engineering: Materials & Civil Engineering - First	Elizabeth Prucka & Maddie Reed	Park City High	Guns, Flames, and Steel 2.0
Engineering: Materials & Civil Engineering - Second	Timmanee Loveless	West High	The Effect of Friction Coefficient on the Strength of Arches
Energy & Transportation - First	Timothy Quah & Vineeth Bajji	West High	Powering Hydrogen Fuel Cells Using Chemical Water Splitting
Energy & Transportation - Second	Jaren Hudson	Tooele High	Load Efficiencies and Light Intensity
Energy & Transportation - Third	Kashanti McCullar	SLCSE (Salt Lake Center for Science Education)	Moving with Magnets
Environmental Management - First	Mirae Parker & Ema Parker	West High	Ice-Bot: A Deep Sea Diving Apparatus
Environmental Management - Second	Emma Hanson	SLCSE (Salt Lake Center for Science Education)	A look at Ozone and PM10 pollution abatement through the use of the urban forest effects model
Environmental Management - Third	Meredith Lawing	Treasure Mountain International	Don't Move a Mussel
Environmental Sciences - First	Bovey Rao	Hillcrest High	Investigation of Different Degradation Treatments on Pesticide Contaminated Water
Environmental Sciences - Second	Merry Joseph	Hillcrest High	Electrostatic Precipitation: Which type of metal can control smoke pollution exiting a chimney most efficiently?
Environmental Sciences - Third	Julia Sherman	West High	Warming Your Home? Or Warming The Globe?
Mathematical Sciences - First	Zachary Candelaria	AMES High School	Generalizing Non-Linear Infinite Series Finitely Bound Recursive Relation.
Medicine & Health Sciences - First	Connor Helgeson	Juan Diego Catholic High	Targeting p53 to Pro-Apoptotic Bak Causes Cell Death In Cancer Cells

Medicine & Health Sciences - Second	Ryan Barney	Wasatch Jr. High	Efficacy of Five Methods of Purifying Water and Their Possible Uses in Third-world Countries
Medicine & Health Sciences - Third	Ruyan Zhang	West High	Is Lymphatic System Involved Muscle Pain and Fatigue?
Microbiology - First	Ryan Anderson	AMES High School	Prevention of Staph. aureus Biofilm Growth Using Phage or Hamamelitannin
Microbiology - Second	Alicia Lu	West High	The Antimicrobial Effectiveness of Essential Oils
Microbiology - Third	Brian Le	Granite Technical Institute	Bacterial Growth at Varying Distances from Toilet Source
Physics & Astronomy - First	Jeremy Arthur Aguilon	Hillcrest High	The Quantum Eraser
Physics & Astronomy - Second	Titus Quah	West High	Comparing the Use of the Projectile Equation in the Fourth-order Runge-Kutta Formula and the Method of Finding the Interception Point of two Motion Equations to simulate the Interception of Moving Objects
Physics & Astronomy - Third	Yuhui Yao	Monticello Academy	Stealthy Reflections
Plant Sciences - First	Kaden Plewe & Jack Tharp	SLCSE (Salt Lake Center for Science Education)	Comparative Hydroponics
Plant Sciences - Second	Jessica Papenfuss	American Preparatory Academy	Biochar and Crop Yield
Plant Sciences - Third	Gretel Zumwalt & Lucy Borup-Douglas	West High	The Effect of Intercropping on Daisy and Catnip

*Note: An error was made that inadvertently removed a project from the awards initially. Therefore, two first-place awards have been given in the Computer Science category for Senior Division.

Intel ISEF Grand Champion Winners			
Fourth Alternate	Merry Joseph	Hillcrest High	Electrostatic Precipitation: Which type of metal can control smoke pollution exiting a chimney most efficiently?
Third Alternate	Naveen Rathi	Hillcrest High	Vector Analysis: The Effects of Docking a PDMS Microfluidic Device on a Monolayer of SKOV3 Carcinoma Cell Viability
Second Alternate	Nityam Rathi	Hillcrest High	Post-Wildfire Soil Recovery: Evaluation of Soil Reconditioning to Promote Seed Germination and Plant Growth
First Alternate	Kathy Liu	West High	The Effects of Salicylic Acid-treated Poultry Litter on Eutrophication and Health of Daphnia magna
Winner	Brandon Cui	Hillcrest High	Demonstration and Characterization of Terahertz Waveguides in Split Ring Resonators
Winner	Calvin Yu	Hillcrest High	Neighborhood Built Environment and No Leisure-time Physical Activity Participation in Utah
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Winner	Bovey Rao	Hillcrest High	Investigation of Different Degradation Treatments on Pesticide Contaminated Water
Winner	Mirae Parker & Ema Parker	West High	Ice-Bot: A Deep Sea Diving Apparatus
Winner	Timothy Quah & Vineeth Bajji	West High	Powering Hydrogen Fuel Cells Using Chemical Water Splitting