

SLVSEF 2016 - Senior Division			
Category and Rank	Name	School	Project Title
Behavioral & Social Sciences - First	Mia Yu	West High	Long-term Effects of Prenatal Substance Exposure on Adolescent Internalizing Behavior Problems
Behavioral & Social Sciences - Second	Joshua Butner	Highland High	Immersion as Affected by Directional Stimuli
Behavioral & Social Sciences - Third	Michael Greenwald	Juan Diego Catholic High	Development of Self-Management Content for the Exercise-Empowerment Mobile Game Therapy for Pediatric Oncology Patients
Behavioral & Social Sciences - Fourth	Ashwaq Abdi & Isabell Mancera	Salt Lake Center for Science Education (SLCSE)	Does being a vegetarian affect your stress levels?
Biology & Biochemistry - First	DaEun (Anna) Sung	West High	The Manipulation of Neural Stem Cell Differentiation by Glycan-Based, Small Molecules
Biology & Biochemistry - Second	Chelsea Li	West High	Investigating p16 Control of Mitochondrial Biogenesis in Melanoma
Biology & Biochemistry - Third	Anna Mancera & Tyrell Floyd	Salt Lake Center for Science Education (SLCSE)	The Effect of Waterborne Viruses on Tetrahymena Strains
Biology & Biochemistry - Fourth	Aisha Zwitter	Granite Technical Institute	Selection of Kanamycin-Resistant Genotypes in E. coli
Chemistry - First	Michael Tao	West High	Degrading Gaseous Formaldehyde using an Ag/TiO ₂ Bi-metallic Nanocomposite Reactor under Visible Light
Chemistry - Second	Rex Alley	Juan Diego Catholic High	Nanoparticle Ion-Trap Mass Spectrometry: Graphite Nanoparticle Analysis
Chemistry - Third	Connor Carlisle	Juan Diego Catholic High	iMotifs
Chemistry - Fourth	Haylie DeMercy	Corner Canyons High School	Tropospheric Ozone Electrochemical Cell
Earth & Environmental Sciences - First	Titus Quah	West High	Modeling Carbon Reservoirs and their Properties
Earth & Environmental Sciences - Second	Julia Sherman	West High	The Efficiency of Methane Capture via the Anaerobic Digestion of Food Waste in Residences
Earth & Environmental Sciences - Third	Haley Segura	Salt Lake Center for Science Education (SLCSE)	Fire Reconstruction History and Environmental Disturbances of Range Creek, Utah
Earth & Environmental Sciences - Fourth	Claire Russon	Salt Lake Center for Science Education (SLCSE)	Using Stable Carbon Isotopes in Tree Rings to Create a History of Fossil Fuels in Salt Lake's Atmosphere
Energy: Chemical & Physical - First	Kathy Liu	West High	Innovating Safer High-Performance Energy: Nature-Derived Solid Polymer Electrolytes for Sustainable Next-Generation Lithium Batteries
Energy: Chemical & Physical - Second	Tanisha Martheswaran	The Waterford School	Waste Embraced: Addressing the issue of fossil fuel depletion through the optimization of biogas production using an eco-genomics framework
Energy: Chemical & Physical - Third	William Roeca & Jeanett Fayed	Salt Lake Center for Science Education (SLCSE)	Organic batteries
Engineering: Civil & Environmental - First	Kanishka Ragula	Skyline High	WaterSmart: 'ClearWater Revival' A Novel Method for Separating Clear Residential Waste Water from Gray and Waste Water
Engineering: Civil & Environmental - Second	Gussie Scott	Salt Lake Center for Science Education (SLCSE)	Using Stable Isotope Spectrometry to Trace Nitrogen Pollution in the Jordan River
Engineering: Civil & Environmental - Third	Divyam Goel	West High	Ensuring Food Security through Nutrient Recovery from Waste Streams
Engineering: Civil & Environmental - Fourth	Kaatje Fisk	Salt Lake Center for Science Education (SLCSE)	The Effects of TiO ₂ on Volatile Organic Compound Reduction
Engineering: Electrical & Computer Science - First	Alexander Cheng	Hillcrest High	Using Machine Learning and Image Segmentation to Analyze Retinal Blood Vessel Densities
Engineering: Electrical & Computer Science - Second	Nithin Chalapathi	West High	The implementation of deep learning to diagnose patients with Alzheimer's disease.
Engineering: Electrical & Computer Science - Third	Jessica Ivie	Entheos Academy	Building on Blockly III: Public Deploy, Website Development, Software Refinement, and Product Release

Engineering: Electrical & Computer Science - Fourth	Christopher Chen & Igor Durovic	West High	Disease Spread Simulation Based on Hierarchical Abstraction and Cellular Automata
Engineering: Materials & Biomedical - First	Timmanee Loveless	West High	The Effect of Functional Gradation on Flexural Strength of Simulated Bone
Engineering: Materials & Biomedical - Second	Mitchell Simmons	West High	The Effect of Molecule Size on Drug Release Kinetics of Molecular Imprinted Hydrogels
Engineering: Mechanical - First	Spencer Kenison	Tooele High	Lift It
Engineering: Mechanical - Second	Vikrant Ragula	Skyline High	Roofie: A Novel Method for Automatic Installation of Roof Shingles
Engineering: Mechanical - Third	Jaren Hudson, Michael Whitney & Casey Cooper	Blue Peak High School	Building PWDRD
Engineering: Mechanical - Fourth	Joshua Larsen, Simon Kemp & Bjorn Kierulf	Salt Lake Center for Science Education (SLCSE)	The Effects of Articulation on Aerodynamic Properties
Medicine & Health Sciences - First	Sai Preethika Parsawar	Hillcrest High	MS of MS with CSF
Medicine & Health Sciences - Second	Amanda Jiang	West High	A Novel Approach to Inhibit Cancer Cell Invasion: Disrupting the Trafficking of a WNT5A Receptor
Medicine & Health Sciences - Third	Alexander Sun	Hillcrest High	Quantitative Measures for Intervertebral Disc Health and Physiology Using Magnetic Resonance Imaging
Medicine & Health Sciences - Fourth	Vismaya Kharkar	West High	Investigating the Role of Demethylase LSD-2 in Breast Cancer
Physics, Astronomy & Math - First	Annie Yun & Yang Yan	West High The Waterford School	Mathematical and Computational Modeling and Simulation of Viral Evasions of Integrated Cellular Stress Response
Physics, Astronomy & Math - Second	Alexander George-Kennedy	Juan Diego Catholic High	Superluminal Data Transfer via Photons through Unstabilized Einstein-Rosen Bridges
Physics, Astronomy & Math - Third	Jack Garzella	Juan Diego Catholic High	Resistance is Futile: On the solvability of the inverse Schrodinger and conductivity problems
Physics, Astronomy & Math - Fourth	Alan Zhao	Hillcrest High	Traffic Efficiency Study of Car Spacing at a Red Light
Plant Sciences - First	David Zhong	Wasatch Jr. High	Amazing Leaves - A Study of Leaf's vascular System and Da Vinci's Rule
Plant Sciences - Second	Miranda Uribe & Katherine Mattena	Salt Lake Center for Science Education (SLCSE)	The Effect of Delay Time on Germination Rate
Plant Sciences - Third	Leah Jang & Monica Martinez	Salt Lake Center for Science Education (SLCSE)	Can Evergreens Help Reduce Pollution?

Intel ISEF Grand Champion Winners			
Alternate	Anna Mancera & Tyrell Floyd	Salt Lake Center for Science Education (SLCSE)	The Effect of Waterborne Viruses on Tetrahymena Strains
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Winner	Alexander Cheng	Hillcrest High	Using Machine Learning and Image Segmentation to Analyze Retinal Blood Vessel Densities
Winner	Annie Yun & Yang Yan	West High The Waterford School	Mathematical and Computational Modeling and Simulation of Viral Evasions of Integrated Cellular Stress Response
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Winner	Kathy Liu	West High	Innovating Safer High-Performance Energy: Nature-Derived Solid Polymer Electrolytes for Sustainable Next-Generation Lithium Batteries