

SLVSEF 2017 - Senior Division			
Category and Rank	Name	School	Project Title
Behavioral & Social Sciences - First	Alex Sun & Emma Sun	Hillcrest High (Alex) The Waterford School (Emma)	UNDERSTANDING "COMPASSION FADE"
Behavioral & Social Sciences - Second	Elainna Ng	Juan Diego Catholic High	Effects of Diet-Induced Binge Eating on Behavioral Control of Feeding
Behavioral & Social Sciences - Third	Mia Yu	West High	Nonresident father involvement and child wellbeing: A national prospective birth cohort study
Behavioral & Social Sciences - Fourth	Angela Pham	AMES High School	Emotional Super Bowl
Biology & Biochemistry - First	Tyrell Floyd & Anna Mancera	Salt Lake Center for Science Education (SLCSE)	The Effect of Environmental Factors on the Upregulation of Dicer-2 RNA and Development of Viral Entities within Dicer-1 Inhibited Tetrahymena Cells
Biology & Biochemistry - Second	Daeun Sung	West High	Directing Neural Stem Cell Differentiation through Engineering the Extracellular Matrix
Biology & Biochemistry - Third	Vismaya Kharkar	West High	Cellular and Genetic Mechanisms Connecting Biological Rhythms and Touch-Based Response in <i>C. elegans</i>
Biology & Biochemistry - Fourth	Olivia Slaughter	Salt Lake Center for Science Education (SLCSE)	Picky Parasites- An Investigation of <i>Columbicola columbae</i> Host Choice
Chemistry - First	Jonathan Waung	Juan Diego Catholic High	Chemistry on Carbon Nanoparticles
Chemistry - Second	Grace Wang	West High	An Eggsperiment: Removal of Copper from Aqueous Solutions using Eggshell Wastes
Chemistry - Third	Dillon Boone	Salt Lake Center for Science Education (SLCSE)	The Optimization of Electrolysis
Chemistry - Fourth	Nihal Kariparduc & Zachary Maynard	Beehive Academy	Can Mineral Oil Solidify Motor Oil?
Earth & Environmental Sciences - First	Julia Sherman	West High	The Correlation Between Presence of Radon Gas in Residences and Diagnosis of Type 1 Diabetes
Earth & Environmental Sciences - Second	Tara Horscroft	Entheos Academy	Evaluating Salt Lake County Watershed [Phase 1: Utilizing a low cost method to detect polluted surface water outfalls and misconnected drainage on the Jordan River]
Earth & Environmental Sciences - Third	Mason Buxton	American Preparatory Academy	The Problem of Particulates Produced by Fuels Used in Small Engines
Earth & Environmental Sciences - Fourth	Kaatje Fisk	Salt Lake Center for Science Education (SLCSE)	Minimizing the Spread of Invasive Species Using Improved Watercraft Monitoring Technology
Energy: Chemical & Physical - First	Tanisha Martheswaran	The Waterford School	Waste Embraced 2.0: A Novel Study of the Effects of Optimized Struvite Precipitation on Biogas Production and Resource Recovery from Municipal Landfill Leachate and Wastewater Centrate
Energy: Chemical & Physical - Second	Isaac Bromley-Dulfano	AMES High School	Puzzle Panels
Energy: Chemical & Physical - Third	Anna Tang	West High	Semiconductor Capacitors and its Application in Battery Technology
Energy: Chemical & Physical - Fourth	Tristan Lopez	AMES High School	Catalytic Converters
Engineering: Civil & Environmental - First	Isaac Christensen & Evan Culer	Salt Lake Center for Science Education (SLCSE)	Exploring the Economic Efficiency of Solar Power
Engineering: Civil & Environmental - Second	Amanda Thatcher	Highland High	The Carbon Sequestrator
Engineering: Civil & Environmental - Third	Gussie Scott	Salt Lake Center for Science Education (SLCSE)	Using Stable Nitrogen Isotope Spectrometry to Analyze Elms and Phragmites as Potential Environmental Indicators for Nitrogen Pollution in the Jordan River
Engineering: Civil & Environmental - Fourth	Divyam Goel	West High	Resource recovery from liquid waste: A strategy for ensuring food security
Engineering: Electrical & Computer Science - First	Cassandra Ivie	Entheos Academy	Coding "The Incredible Machine: Creating a simplified coding system for engineering education
Engineering: Electrical & Computer Science - Second	Jaxton Maez	Stansbury High School	Wireless Power transfer
Engineering: Electrical & Computer Science - Third	Ian Van Leuven & Bailey Landis	Treasure Mountain Jr. High	Card Crash
Engineering: Electrical & Computer Science - Fourth	Emma Wasson & Jaren Hudson	Blue Peak High School	Swarm Robotics
Engineering: Materials & Biomedical - First	Alexander Cheng	Hillcrest High	Analysis of Retinal Fundus Images to Detect Macular Degeneration Using Machine Learning Methods
Engineering: Materials & Biomedical - Second	Mitchell Simmons	West High	Exploring Sustainable Materials Made From Waste Products and Their Applications
Engineering: Materials & Biomedical - Third	Bjorn Kierulf	Salt Lake Center for Science Education (SLCSE)	An Evaluation of the Possibility of Using Alternative Materials in Swamp Coolers
Engineering: Materials & Biomedical - Fourth	John York	AMES High School	Clot
Engineering: Mechanical - First	Vikrant Ragula & Kanishka Ragula	Skyline High	A Robotic Approach to De-escalating Police/Civilian Interactions During Traffic Stops
Engineering: Mechanical - Second	Keyan Adams	American Preparatory Academy	The Elimination of Catching Edges for Beginner Snowboarders
Engineering: Mechanical - Third	Jack Shuckra	West High	Ideal Tire Pressure for the Junior Rider
Engineering: Mechanical - Fourth	Jaspar Ruegemer	Treasure Mountain Jr. High	How Piezoelectric Crystals can produce Electric Energy in Everyday Life

Medicine & Health Sciences - First	Chelsea Li	West High	An Anti-Inflammatory Drug with Anti-Cancer Properties: Aspirin Inhibits Motility and Colony Formation of Melanoma Cells and Transformed Melanocytes
Medicine & Health Sciences - Second	Sai Parsawar	Hillcrest High	MS of MS: An Investigation of the Cerebrospinal Fluid Proteome of Multiple Sclerosis Patients Using Bruker maXis II ETD Mass Spectrometry
Medicine & Health Sciences - Third	Jessie Zhu	Juan Diego Catholic High	Preclinical Evaluation of Cannabidiol for Seizures and Comorbidities
Medicine & Health Sciences - Fourth	Cynthia Chen & Keven Zhang	West High	Optogenetic Recording of Cultured TRPV1-Cre/GCaMP6+ DRG Neurons to Study Muscle Fatigue and Pain
Physics, Astronomy & Math - First	Annie Yun	West High	Using Machine Learning to Identify Asteroid Collisional Families
Physics, Astronomy & Math - Second	Timmanee Loveless	West High	Where's that confounded bridge?: The Effect of Bridge Placement on Excited Harmonics from a Stringed Instrument
Physics, Astronomy & Math - Third	Alan Zhao	Hillcrest High	Modeling Traffic Flow Using Advanced Mathematics
Physics, Astronomy & Math - Fourth	Abigail Taylor	City Academy	Sky Glow And Stars
Plant Sciences - First	David Zhong	Skyline High	A Quantitative Comparison of Water Consumption and Venation between Normal and Damaged Leaves
Plant Sciences - Second	Jessica Flynn	Salt Lake Center for Science Education (SLCSE)	How does the amount of phosphates effect the growth of Dunaliella Salina?
Plant Sciences - Third	Charlotte Jacketta	Granite Technical Institute	Methods for Optimal Elimination of Whiteflies

Intel ISEF Grand Champion Winners	Student	School	Project Title
Observer	Isaac Bromley-Dulfano	AMES High School	Puzzle Panels
Observer	Tara Horscroft	Entheos Academy	Evaluating Salt Lake County Watershed, [Phase 1: Utilizing a low cost method to detect polluted surface water outfalls and misconnected drainage on the Jordan River]
Observer	Gussie Scott	Salt Lake Center for Science Education (SLCSE)	Using Stable Nitrogen Isotope Spectrometry to Analyze Elms and Phragmites as Potential Environmental Indicators for Nitrogen Pollution in the Jordan River
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Winner	Alexander Cheng	Hillcrest High	Analysis of Retinal Fundus Images to Detect Macular Degeneration Using Machine Learning Methods
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