

CUSF 2020 Senior Division Awards List

Award Name	Name(s)	School(s)	Project Title
Special Awards			
American Meteorological Society Award	Samuel Speckman	Early Light Academy	Evaluating coastal armouring
American Meteorological Society Award	Danielle Shafer	Summit High School	How Light and Flow affect the growth of Pioneer Species of Coral
American Meteorological Society Award	Mercy Smith	Timpview High	Effects of Varioius Solutes on Soil Respiration
American Meteorological Society Award	Tanner Bunker	Pleasant Grove High School	Determining the impact that light, CO ₂ , and fertilizer have on the growth of Scenedesmus obliquus
American Psychological Association Award	Yejin Bann and Eleanor Smith	Timpview High	Implicit Bias in Education: Perceived Correlations Between Handwriting and Intelligence
ASM Materials Education Foundation	Aimee Hales	Home School	Cooking Without Fuel: Utilizing the Sun to Save Money, Energy, and Lives
ASM Materials Education Foundation	Rebekah Jardine	Pleasant Grove High School	The Orchestral Legacy Left in Our Hair?
Association for Women Geoscientists Award	Sadie Pollister	Pleasant Grove High School	Stomata Density of Canyon and Valley Leaves in Ecophysiology
Great Basin Air & Waste Management Association Award	Risha Nadar	Lakeview Academy	Sourcing the Eutrophication of Utah Lake
Lemelson Early Inventors	Skyler Colledge	Lone Peak High School	A Machine-Learning Based Approach for Improving Human Safety and Increasing Longevity of Vibrating Mechanical Systems
Mu Alpha Theta Award	Ashley Ruelas	Pleasant Grove High School	Utah Lake's relationship with Alfalfa Plants
NASA Earth System Science Award	Ella Madsen	Home School	Optimal Design of a Reflector to Increase Photo-Voltaic Panel Output
NASA Earth System Science Award	Elliott Bird	Early Light Academy	Who lit the roof up?
National Oceanic and Atmospheric Administration Award	Isabelle Barnes	Pleasant Grove High School	Determining the effects of varying levels of Ph on green Algae growth
National Oceanic and Atmospheric Administration Award	Cole Lotz	Early Light Academy	Color Change in Photochemistry
Office of Naval Research	Risha Nadar	Lakeview Academy	Sourcing the Eutrophication of Utah Lake
Office of Naval Research	Oleg Berns	American Fork High School	Influences on Planaria regeneration
Office of Naval Research	Collin Latimer	Early Light Academy	Natural Antibacterial SAP
Office of Naval Research	Jaxson Marsigli	Spanish Fork Jr. High	the effect of cold air on the tuning of instruments
Office of Naval Research	Deanna Salinas	Payson Jr. High	Consciousness

Office of Naval Research	Brinley Walles	West Jordan Middle	Does The Color Of Foods Or Drinks Affect Whether We Like Them Or Not
Office of Naval Research	Gabe Bustos	Payson Jr. High	How Can We Explain The Combustion Reaction On Earth
Ricoh Sustainable Development Award	Benjamin Beck	American Fork High School	The Effect of Nicotinamide Riboside in Growth Rates
Ricoh Sustainable Development Award	Abigayle Harker	Early Light Academy	polytetrafluoroethylene
Society for In-Vitro Biology - 11th grader	Sierra Stanworth	Pleasant Grove High School	The time difference between brand and generic pain relievers
U.S. Air Force	Skyler Colledge	Lone Peak High School	A Machine-Learning Based Approach for Improving Human Safety and Increasing Longevity of Vibrating Mechanical Systems
U.S. Air Force	Quinton Adamson, Logan Diether, and Carter Phillippi	American Fork High School	Effect of Liquid Oxygen on Combustion
U.S. Metric Association	Jesse Shepherd	Spanish Fork High	A Comparative Analysis of Various Means of Enzyme Linked Immunosorbent Assay Tests for Avian Paramyxovirus-Newcastle Disease Virus
U.S. Metric Association	Skyler Colledge	Lone Peak High School	A Machine-Learning Based Approach for Improving Human Safety and Increasing Longevity of Vibrating Mechanical Systems
U.S. Stockholm Jr. Water Prize	Isabelle Barnes	Pleasant Grove High School	Determining the effects of varying levels of Ph on green Algae growth
U.S. Stockholm Jr. Water Prize	Rachel Tebbs	Pleasant Grove High School	Which Brand of Antacid is the Most Effective at Neutralizing The pH of Stomach Acid (Hydrochloric Acid)?
U.S. Stockholm Jr. Water Prize	Matthew Wayman	Early Light Academy	Water Filtration
U.S. Stockholm Jr. Water Prize	Danielle Shafer	Summit High School	How Light and Flow affect the growth of Pioneer Species of Coral
U.S. Stockholm Jr. Water Prize	Ashley Ruelas	Pleasant Grove High School	Utah Lake's relationship with Alfalfa Plants
Yale Science & Engineering Association Award	Alissa Jones, Ella Pitcher, and Addison Abel	American Fork High School	The Cool Blue Light of Luminol

Category Awards - SENIOR DIVISION

Animal & Plant Sciences - 3rd Place	Patrick Beesley	Pleasant Grove High School	Enzymatic Analysis Of Mushrooms in Different Temperatures
Animal & Plant Sciences - 3rd Place	Danielle Shafer	Summit High School	How Light and Flow affect the growth of Pioneer Species of Coral
Animal & Plant Sciences - 2nd Place	Kyri Forman	Timpanogos High School	Activation of Polyphenic Changes in Wings, Diapause and Monarch Migration
Animal & Plant Sciences - 1st Place	Jesse Shepherd	Spanish Fork High	A Comparative Analysis of Various Means of Enzyme Linked Immunosorbent Assay Tests for Avian Paramyxovirus-Newcastle Disease Virus
Behavioral & Social Science - 3rd Place	Brigham Dunford	Pleasant Grove High School	Utah County Financial Reports: Is Annual Revenue Determined by an Area's Population?
Behavioral & Social Science - 3rd Place	Rebekah Schultheiss and Ellis Ashton	Canyon View Junior High	The Effect of Timers on Performance

Behavioral & Social Science - 2nd Place	Yejin Bann and Eleanor Smith	Timpview High	Implicit Bias in Education: Perceived Correlations Between Handwriting and Intelligence
Behavioral & Social Science - 1st Place	Jonathan LeBaron	West Jordan Middle	Mind Over Math 2
Biology & Biochemistry - 1st Place	Dustin Spindler, Kason Crapo, and Anna Mayo	Pleasant Grove High School	Testing the Chronotypes and Genotypes of the Per3 gene to find if the VNTR of each gene can determine sleep behaviors in humans.
Biomedical, Medicine, & Health Sciences - 3rd Place	Sabrina Southard	Pleasant Grove High School	Microbiological Activities of Frankincense and Black Pepper Essential Oils
Biomedical, Medicine, & Health Sciences - 2nd Place	Collin Latimer	Early Light Academy	Natural Antibacterial SAP
Biomedical, Medicine, & Health Sciences - 1st Place	Bracken Pratt	American Fork High School	The Effect of Allergies on IgE
Chemistry - 3rd Place	McKaden Anderson	Payson High	Extraction of Ethanol From Gasoline
Chemistry - 2nd Place	Quinton Adamson, Logan Diether, and Carter Phillippi	American Fork High School	Effect of Liquid Oxygen on Combustion
Chemistry - 1st Place	Devorah Stucki and Benjamin Karlinsey	American Fork High School	Analysis of the Effect of Iron Oxide Species on the Selective Catalytic Reduction of NOx by an MnOx/Vermiculite Catalyst
Earth & Environmental Science - 3rd Place	Mercy Smith	Timpview High	Effects of Various Solutes on Soil Respiration
Earth & Environmental Science - 2nd Place	Elaine Carpenter	Lakeview Academy	Eutrophication From Runoff Water
Earth & Environmental Science - 1st Place	Ryatt Price, Daniel Thornton, and Brienna Bishop	American Fork High School	Possibilities of Expanded Polystyrene
Energy: Chemical & Physical - 1st Place	Ella Madsen	Home School	Optimal Design of a Reflector to Increase Photovoltaic Panel Output
Engineering: Civil & Environmental - 2nd Place	Lais Oliveira and Valerie Hale	Timpview High	Pollution Filter Blimp
Engineering: Civil & Environmental - 1st Place	Sami Davis, Grace Erickson, and Stephen Passmore	Pleasant Grove High School	Combining Acetic and Carboxylic Acid With Various Sugars to Create a Resin for a Biodegradable Adhesive
Engineering: Materials & Mechanical - 2nd Place	Jason Gibbons	Pleasant Grove High School	Magnetic Perpetual Motion
Engineering: Materials & Mechanical - 1st Place	Skyler Colledge	Lone Peak High School	A Machine-Learning Based Approach for Improving Human Safety and Increasing Longevity of Vibrating Mechanical Systems
Physics, Astronomy, & Mathematics - 2nd Place	Conner Jaspersen	Payson Jr. High	Understanding The Air Gap
Physics, Astronomy, & Mathematics - 1st Place	Andrew Christensen and Dominic Adamson	Hawthorn Academy	Re-imagining Young's Slit Experiment
Grand Awards			
Dean's Awards - McKay School of Education	Rebekah Jardine	Pleasant Grove High School	The Orchestral Legacy Left in Our Hair?
Dean's Awards - College of Life Sciences	Preston Knudsen, Jeremy Clark, and Thomas Larsen	Pleasant Grove High School	Assisting The Growth Of Oil Eating Microbes (Alcanivorax Borkumensis)

Dean's Awards - Ira A Fulton College of Engineering	Jason Gibbons	Pleasant Grove High School	Magnetic Perpetual Motion
Dean's Awards - College of Physical & Mathematical Sciences	Sami Davis, Grace Erickson, and Stephen Passmore	Pleasant Grove High School	Combining Acetic and Carboxylic Acid With Various Sugars to Create a Resin for a Biodegradable Adhesive
Brigham Young University Scholarship	Valerie Hale	Timpview High	Pollution Filter Blimp
Brigham Young University Scholarship	Skyler Colledge	Lone Peak High School	A Machine-Learning Based Approach for Improving Human Safety and Increasing Longevity of Vibrating Mechanical Systems
Intel ISEF Finalists	Jesse Shepherd	Spanish Fork High	A Comparative Analysis of Various Means of Enzyme Linked Immunosorbent Assay Tests for Avian Paramyxovirus-Newcastle Disease Virus
Intel ISEF Finalists	Bracken Pratt	American Fork High School	The Effect of Allergies on IgE
Intel ISEF Finalists	Ella Madsen	Home School	Optimal Design of a Reflector to Increase Photo- Voltaic Panel Output
Intel ISEF Finalists	Andrew Christensen and Dominic Adamson	Hawthorn Academy	Re-imagining Young's Slit Experiment