

USEF 2020 - Senior Division Special Awards			
Award Name	Name	School	Project Title
American Heart Association	Eliana Moreno	Juan Diego Catholic High	A Novel Zebrafish Assay for Discovering Non-Opioid Painkillers
American Meteorological Society	Warren Ellsworth	Hillcrest High	Our Water Breaking-Point: Resolving Detrimental Reservoir Mismanagement by Implementation of Advanced Multiparametric Modeling
	Wentao Zhang	Hillcrest High	Building Air Quality Predictions With Machine Learning Techniques
American Psychological Association	Yvonne Kim	West High	Significant Brain Network Abnormalities in Autistic Children: The Analysis of Semantic, Speech, Motor, and Socio-Emotional Networks
American Society of Civil Engineers Merit	Makayla Lear	Grantsville High	Bioplastic Packaging Material
American Society of Civil Engineers Honorable Mention	Warren Ellsworth	Hillcrest High	Our Water Breaking-Point: Resolving Detrimental Reservoir Mismanagement by Implementation of Advanced Multiparametric Modeling
	Zakary Holt, Zak Diana & Jesus Mendoza	Salt Lake Center for Science Education (SLCSE)	Harvesting Energy from Sound
ASM Materials Education Foundation	Marianne Liu	West High	A Novel Experimental-Computational Approach for Advanced Solid Polymer Electrolyte Design
Association for Women Geoscientists, Salt Lake Chapter	Olivia Slaughter & Molly Chien	Salt Lake Center for Science Education (SLCSE)	Analyzing the Cortisol Levels of Ochotona princeps and Temperature Trends in the Great Basin Alpine Microclimate Habitats
	Emma Grealley	The Waterford School	Human-Powered Generator: An Engineering Solution (Phase V)
Director's Award	Isabella Bertagnolli	Juan Diego Catholic High	VanGAN: Computational Aesthetics using Generative Adversarial Networks
Genius Olympiad Award	Aiden Pasinsky	Beehive Academy	Manipulating Prochlorococcus Algae for Improved CO2 Fixation and Temperature Resilience: Validated by Genetic Comparison
Great Basin Chapter of Air and Waste Management Association	Makayla Lear	Grantsville High	Bioplastic Packaging Material
Ike Scientific Consultation Medal	Tarun Martheswaran	The Waterford School	An Enhanced Early Detection Model of Dengue Fever Outbreaks Using SEIR Infectious Disease Epidemiological Compartments, Generalized Linear Regression Relationships, and Statistical Computing
Ike Scientific Innovation Medal	Isabella Bertagnolli	Juan Diego Catholic High	VanGAN: Computational Aesthetics using Generative Adversarial Networks
Ike Scientific Application Medal	Emma Grealley	The Waterford School	Human-Powered Generator: An Engineering Solution (Phase V)
Loveland Living Planet 1st	Aiden Pasinsky	Beehive Academy	Manipulating Prochlorococcus Algae for Improved CO2 Fixation and Temperature Resilience: Validated by Genetic Comparison
Loveland Living Planet 2nd	Darin Sandberg	Grantsville High	Implications of mushrooms in oil clean up.
Loveland Living Planet 3rd	Ellis Chalker & Kaden Hurley	Salt Lake Center for Science Education (SLCSE)	Can algae bio-mediate eutrophic nutrients out of water in a controlled environment
Loveland Living Planet 4th	Warren Ellsworth	Hillcrest High	Our Water Breaking-Point: Resolving Detrimental Reservoir Mismanagement by Implementation of Advanced Multiparametric Modeling
Mu Alpha Theta	Lukas Mesicek	Salt Lake Center for Science Education (SLCSE)	Simulating Spacetime: General Relativity in Action
NASA Earth System Science Award	Lucy Engar & Evan Birkinshaw	Salt Lake Center for Science Education (SLCSE)	Investigating the Effects of CH4 on Microrbial Colonies in Primula vulgaris and General Health of Dianthus caryophyllus
National Oceanic and Atmospheric Administration	Aiden Pasinsky	Beehive Academy	Manipulating Prochlorococcus Algae for Improved CO2 Fixation and Temperature Resilience: Validated by Genetic Comparison
Office of Naval Research / U.S. Navy / U.S. Marine Corps	Brian Arcos-Flores	Salt Lake Center for Science Education (SLCSE)	Effects of ocean acidification on aquatic microorganisms
	Luke Ussing	Grantsville High	Thermometric generators to harness excess heat from an automobile.
	Tara Horscroft	Entheos Academy	Bisected Planaria Flatworm (Platyhelminthes) Cell Regeneration Within Strong Magnetic Fields

Ricoh USA, Inc.	Sevara Frederico & Dora Meiwes	West High	The Influence of Fungal Microorganisms in Soil Biomes on the Drought Resistance of Radish Plants
Salt Lake City Public Utilities	Darin Sandberg	Grantsville High	Implications of mushrooms in oil clean up.
Society for In Vitro Biology	Anoushka Kharkar	West High	Determining the Effect of Intrauterine Growth Restriction and Postnatal Development on Alternative Splicing of Elastin in the Rat Lung
TD Williamson	Makayla Lear	Grantsville High	Bioplastic Packaging Material
U.S. Air Force	Tarun Martheswaran	The Waterford School	An Enhanced Early Detection Model of Dengue Fever Outbreaks Using SEIR Infectious Disease Epidemiological Compartments, Generalized Linear Regression Relationships, and Statistical Computing
U.S. Agency for International Development (USAID)	Emma Grealley	The Waterford School	Human-Powered Generator: An Engineering Solution (Phase V)
U.S. Metric Association	Gabriel Veltri & Maya Sherrell	Juan Diego Catholic High	Synthetic vs. Enzyme Assisted Chromophore Incorporation of PYP
U.S. Stockholm Junior Water Prize	Warren Ellsworth	Hillcrest High	Our Water Breaking-Point: Resolving Detrimental Reservoir Mismanagement by Implementation of Advanced Multiparametric Modeling
	Cindy Siharath, Zaid Curiel & Vian Tran	AMES High School	Dropduino
	Ellis Chalker & Kaden Hurley	Salt Lake Center for Science Education (SLCSE)	Can algae bio-mediate eutrophic nutrients out of water in a controlled environment
Yale Science and Engineering Association	Tarun Martheswaran	The Waterford School	An Enhanced Early Detection Model of Dengue Fever Outbreaks Using SEIR Infectious Disease Epidemiological Compartments, Generalized Linear Regression Relationships, and Statistical Computing
XMission	Malavika Singh	West High	Enabling Precision Medicine: An Innovative Approach for Classifying Genetic Mutations Using Natural Language Processing Algorithms