

USEF 2021- Special Awards for All Divisions

Award Name	Name	School	Project Title
Air and Waste Management Association Great Basin Chapter	Caleb Grow	Jordan High	Locking Down: The COVID-19 Pandemic and Air Pollution in Salt Lake City
American Meteorological Society	Caleb Grow	Jordan High	Locking Down: The COVID-19 Pandemic and Air Pollution in Salt Lake City
American Psychological Association	Nathan Flores & Susan Arcos Flores	SLCSE	Latino Disparities in Psychological Resources and Treatment
ASM Materials Education Foundation	Marianne Liu	West High	A Novel Compositional-Structural Attention-Based Machine Learning Network to Predict Material Properties
Association for Women Geoscientists Salt Lake Chapter 1st Place Elementary	Lily Matsumori	McMillan Elementary	Let's Clear The Air
Association for Women Geoscientists Salt Lake Chapter 2nd Place Elementary	Lana Chan	Challenger School	Mants (Mars Plants): The Effect of Martian Soil on the Growth of Radish Plants
Association for Women Geoscientists Salt Lake Chapter 1st Place Junior	Beau Saber	J.E. Cosgriff Memorial	Engineering a Submersible Magnetic Device to Capture Microplastic Pollutants from Water Bodies
Association for Women Geoscientists Salt Lake Chapter 2nd Place Junior	Sahil Shah & Sierra Sun	The Waterford School	Little Cottonwood Paleodelta in Lake Bonneville: A Geologic Analog in Utah for the Rover Perseverance Landing Site at Jezero Crater on Mars
University of Utah College of Science Scholarship	Yvonne Kim	West High	Mental Health during Covid-19: The Role of Knowledge and its Sources
	Aiden Pasinsky	Beehive Science and Technology Academy	How do specific mutated genes affect metabolic functioning in Prochlorococcus?
	Warren Ellsworth	Hillcrest High School	A Novel Continuous Electrostatic- Capacitive Desalination System Inspired by Biomimicry of Marine Teleosts's Chlorine Cells Designed for Economical Saltwater Deionization
	Aymeric Blaizot	Juan Diego Catholic High School	Inhibiting the Main Protease of SARS-CoV-2 with Peptides
	Anastasia Dunca	West High	Predicting Molecular Phenotypes with Single Cell RNA Sequencing: an Assessment of Unsupervised Machine Learning Models
	Nathaniel Loveless	West High	Use of Collaborative Robotics in Mass Production of Freehand Components

	Joshua Cropper & Dyson Smith	Blue Peak High School	Usage of Graphene Sheeting to Reduce Price and Weight of Soft Personal Ballistic Protection
	Caleb Grow	Jordan High	Locking Down: The COVID-19 Pandemic and Air Pollution in Salt Lake City
	Marianne Liu	West High	A Novel Compositional-Structural Attention-Based Machine Learning Network to Predict Material Properties
	Brendon Yong	West High	Exploring a Ring-Based Non-Invasive Technique for Long-Term Human Cardiac and Cardiovascular Health Monitoring
	Malavika Singh	West High	Grasping Gestures: Analyzing the Aesthetics of Dance Through the Lens of Physics & Computer Science
	Kalli Bo	Judge Memorial Catholic High School	Do Plants Get a Sun Tan?
University of Utah College of Mines & Earth Sciences Scholarship	Marianne Liu	West High	A Novel Compositional-Structural Attention-Based Machine Learning Network to Predict Material Properties
	Caleb Grow	Jordan High	Locking Down: The COVID-19 Pandemic and Air Pollution in Salt Lake City
Journal of Young Investigators 1st Place	Brendon Yong	West High	Exploring a Ring-Based Non-Invasive Technique for Long-Term Human Cardiac and Cardiovascular Health Monitoring
Journal of Young Investigators 2nd Place	Matthew Simmons	Hillcrest High School	In Depth Detection of Silent Myocardial Infarction (SMI)
Journal of Young Investigators 3rd Place	Warren Ellsworth	Hillcrest High School	A Novel Continuous Electrostatic- Capacitive Desalination System Inspired by Biomimicry of Marine Teleosts's Chlorine Cells Designed for Economical Saltwater Deionization
Loveland Living Planet Elementary Division	Viraaj Vaidya	Challenger School	Using ferrofluid to clean up oil spills in the oceans
Loveland Living Planet Junior Division	Beau Saber	J.E. Cosgriff Memorial	Engineering a Submersible Magnetic Device to Capture Microplastic Pollutants from Water Bodies
Loveland Living Planet Senior Division	Warren Ellsworth	Hillcrest High School	A Novel Continuous Electrostatic- Capacitive Desalination System Inspired by Biomimicry of Marine Teleosts's Chlorine Cells Designed for Economical Saltwater Deionization
Mission Math 1st Place Elementary Division	Laura Caetano	Blessed Sacrament School	Does meat consumption contribute to climate change more than driving?

Mission Math 2nd Place Elementary Division	Ben Johnson	Morningside Elementary	Should the Use of Fireworks Be Limited for Better Air Quality?
Mission Math 3rd Place Elementary Division	Forest Young & Victor Young	Reid School	Buoyancy
Mission Math 1st Place Junior Division	Shurik Rajeev	West High	Does the News Have Bias?
Mission Math 2nd Place Junior Division	Tessa Fowler	J.E. Cosgriff Memorial	How does the thickness of a violin string affect the pitch it makes?
Mission Math 3rd Place Junior Division	Malen Semerad	St. Vincent de Paul	How much downforce is exerted when a back spoiler is added to a car?
Mu Alpha Theta	Ronak Agarwal	West High	Modelling Darwinism with Calculus
NASA Earth System Science Award	Wentao Zhang	Hillcrest High School	An Analysis of Air Quality Predictions Through Machine Learning
National Oceanic and Atmospheric Administration	Aiden Pasinsky	Beehive Science and Technology Academy	How do specific mutated genes affect metabolic functioning in Prochlorococcus?
Office of Naval Research - U.S. Navy / U.S. Marine Corps Junior Division	David Habib	Challenger School	Osmosis: The effect of salt concentration on the movement of water molecules through a cell membrane
	Trey Nicolodemos	St. John the Baptist Middle School	Does wind speed affect the rate of evaporation of different waters differently
	Senya Walker	Union Middle School	Effect of Wavelength on Photovoltaic Cell Power Production
	Eva Dvoretzkiy	Challenger School	What does the air have to do with it? The effect of air quality on the chemical composition of precipitation
	Sarah Fiore	St. John the Baptist Middle School	Abrasion Resistance of different fishing lines
Office of Naval Research - U.S. Navy / U.S. Marine Corps Senior Division	Connor Cutshall	Juan Diego Catholic High School	Optimizing the Detection and Analysis of Ultrasonic Vocalizations
	Emilie Etchart	Juan Diego Catholic High School	Non-severe Bleeding Harm in Patients Undergoing Combined Anticoagulation and Antiplatelet Therapies for Treatment of Venous Thromboembolism (VTE)

Ricoh USA, Inc.	Warren Ellsworth	Hillcrest High School	A Novel Continuous Electrostatic- Capacitive Desalination System Inspired by Biomimicry of Marine Teleosts's Chlorine Cells Designed for Economical Saltwater Deionization
USEF Student Advisory Board 1st Place Junior Division	Belinda Hernandez-Padilla	Kearns St. Ann	Stopping Fungus in Its Tracks with Anti-Fungal Agents
USEF Student Advisory Board 2nd Place Junior Division	Aadhi Umamageswaran	American Preparatory Academy	Breathe Free!
USEF Student Advisory Board 3rd Place Junior Division	Ridhitha Nachaegari	Challenger School	Mask! Mask! Mask!
USEF Student Advisory Board 1st Place Elementary Division	Anthon Williamson	Eastwood Elementary	Mind the Six Feet Gap
USEF Student Advisory Board 2nd Place Elementary Division	Max Stephens	Draper Park Middle School	Paper or Screens: Testing Students in a Digital Age
USEF Student Advisory Board 3rd Place Elementary Division	George Cannon, Isaac Cannon & Noah Cannon	Oakwood Elementary	Don't Touch It
Salt Lake Public Utilities Junior Division	Vineet Subramanyan	Challenger School	HOW EFFECTIVE ARE NATURAL WATER FILTERS
Salt Lake Public Utilities Senior Division	Warren Ellsworth	Hillcrest High School	A Novel Continuous Electrostatic- Capacitive Desalination System Inspired by Biomimicry of Marine Teleosts's Chlorine Cells Designed for Economical Saltwater Deionization
Society for In Vitro Biology	Irvane Nelson	Juan Diego Catholic High School	Amino Acids on Insulin Secretion in Beta Cells
T.D. Williamsom Outstanding Project in Energy or Environmental Science	Beau Saber	J.E. Cosgriff Memorial	Engineering a Submersible Magnetic Device to Capture Microplastic Pollutants from Water Bodies
T.D. Williamsom Outstanding Young Scientist Award in 5th Grade	Sayre Carreau	Indian Hills Elementary	Testing different building materials as thermal insulators
U.S. Agency for International Development (USAID)	Gabriel Min	Skyline High	Handwashing Sensor
U.S. Metric Association	Joshua Cropper & Dyson Smith	Blue Peak High School	Usage of Graphene Sheeting to Reduce Price and Weight of Soft Personal Ballistic Protection
U.S. Stockholm Junior Water Prize	Priyanka Mathews	Hillcrest High School	Effect of Light Intensity on Biomass and Buoyancy of Microcystis Aeruginosa

	Warren Ellsworth	Hillcrest High School	A Novel Continuous Electrostatic- Capacitive Desalination System Inspired by Biomimicry of Marine Teleosts's Chlorine Cells Designed for Economical Saltwater Deionization
United States Air Force Certificate of Achievement	Nicolas Gilliot	Blue Peak High School	Electric powered flight
XMission	Marianne Liu	West High	A Novel Compositional-Structural Attention-Based Machine Learning Network to Predict Material Properties
Yale Science and Engineering Association	Anastasia Dunca	West High	Predicting Molecular Phenotypes with Single Cell RNA Sequencing: an Assessment of Unsupervised Machine Learning Models
Lemelson Inventor's Award	Quinton Block	Hillside Middle School	E-trike
Broadcom MASTERS	Ethan Bo	Challenger School	Sugar Under Pressure - What is the effect of Aspartame on blood pressure?
	Isabella Delagerheim	SLCSE	The Effect of Soap Type in Greywater on Plant Health
	Quinton Block	Hillside Middle School	E-trike
	David Habib	Challenger School	Osmosis: The effect of salt concentration on the movement of water molecules through a cell membrane
	Laura Caetano	Blessed Sacrament School	Does meat consumption contribute to climate change more than driving?
	Senya Walker	Union Middle School	Effect of Wavelength on Photovoltaic Cell Power Production
	Tyler Lengerich	St. John the Baptist Middle School	A Dirt for Heros
	Sierra Sun	The Waterford School	Little Cottonwood Paleodelta in Lake Bonneville: A Geologic Analog in Utah for the Rover Perseverance Landing Site at Jezero Crater on Mars
	Sahil Shah	The Waterford School	Little Cottonwood Paleodelta in Lake Bonneville: A Geologic Analog in Utah for the Rover Perseverance Landing Site at Jezero Crater on Mars
	Belinda Hernandez-Padilla	Kearns St. Ann	Stopping Fungus in Its Tracks with Anti-Fungal Agents

	Trey Nicolodemos	St. John the Baptist Middle School	Does wind speed affect the rate of evaporation of different waters differently
	Sarah Walton	Challenger School	The Effect of Filament Size on Crystal Growth
	Lana Chan	Challenger School	Mants (Mars Plants): The Effect of Martian Soil on the Growth of Radish Plants
	Macie Parker	Clarke N. Johnsen Jr. High	Freeze Dried Mystery
	Ella Still	J.E. Cosgriff Memorial	How does the electric current of a battery affect the strength of an electromagnetic field?
	Aditi Rao	Wasatch Jr. High	Never fear Onion Tear
	Violette-Reine Evans	St. John the Baptist Middle School	Densicheese
	Abbey Bowers	St. Vincent de Paul	Boba the Popping Sensation
	Dakota Lara	Kearns St. Ann	Light sensing robots - into the light
	Ammon Millet	Fox Hills Elementary	Music on Memory
	Anna Smith	J.E. Cosgriff Memorial	Do Students Learn Better IN-Person or Online?
	Claire Hall	Fox Hills Elementary	Fahrenheit and Fermentation
	William Rollins	American Preparatory Academy	Dirt vs Gel
	Noah Davis	St. John the Baptist Middle School	Battery vs. Solar Power
	Grace Mese	Blessed Sacrament School	How screen time affects your sleep

	Nikolas Vargas	St. Andrew	Oil Response
	Dylan Anderson	St. Vincent de Paul	Does Daily Stretching Effect Your Jumping Vertical
GENIUS Olympiad	Warren Ellsworth	Hillcrest High School	A Novel Continuous Electrostatic- Capacitive Desalination System Inspired by Biomimicry of Marine Teleosts's Chlorine Cells Designed for Economical Saltwater Deionization
	Wentao Zhang	Hillcrest High School	An Analysis of Air Quality Predictions Through Machine Learning
Regeneron International Science and Engineering Fair	Nathaniel Loveless	West High	Use of Collaborative Robotics in Mass Production of Freehand Components
	Anastasia Dunca	West High	Predicting Molecular Phenotypes with Single Cell RNA Sequencing: an Assessment of Unsupervised Machine Learning Models
	Yvonne Kim	West High	Mental Health during Covid-19: The Role of Knowledge and its Sources
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