

USEF 2018 - Special Awards			
Award Name	Name	School	Project Title
Air and Waste Management Association- Great Basin	Grace Wang	West High	Investigating Granulated Activated Carbon Physisorption Potential for Plastic Microfiber Cleanup
American Institute of Aeronautics and Astronautics - Elementary Division - First Place	Sebastien Green & Keeler Schriber	The McGillis School	Up, Up and Away
American Institute of Aeronautics and Astronautics - Elementary Division - Second Place	Annalee Knott	Liberty Elementary (Murray)	Taking Flight
American Institute of Aeronautics and Astronautics - Junior Division	Eric Snauffer	Midvale Middle School	A New Guard : Evaluating Drone Propeller Guards
American Institute of Aeronautics and Astronautics - Senior Division - First Place	Spencer Kenison	Tooele High	Winglet Development
American Institute of Aeronautics and Astronautics - Senior Division - Second Place	Daniel Westhara	Stansbury High School	Is Lift A Myth?
American Meteorological Society	Wensen Zhang	Hillcrest High	Prediction of Hurricanes Using Neural Networks
	Nihal Kariparduc & Zachary Maynard	Beehive Academy	The Effect of Photodegradation and Ozonation on Polymers
American Psychological Association	Emma Sun	The Waterford School	Externality Framing Effects on Cognition
	Daphne Liu & Mia Yu	West High	Undetected Suicide: Classification of Undetermined Drug Overdose Deaths Using Machine Learning Techniques
American Society of Civil Engineers - Elementary Division - First Place	Sean Merrill & Liam Foehl	Jeremy Ranch Elementary	HELP. WE NEED WATER
American Society of Civil Engineers - Elementary Division - Honorable Mention	Dylan Rifkin	Trailside Elementary	H2 Woah
American Society of Civil Engineers - Elementary Division - Honorable Mention	Benjamin Pearson	Beehive Academy	Micro Hydro Generator in the Kitchen
American Society of Civil Engineers - Junior Division - First Place	Teo Kjolseth	St. Vincent de Paul School	Levees Will Fail
American Society of Civil Engineers - Junior Division - Honorable Mention	Nithya Mahasanen, Isabel Crofts & Lily Crofts	Channing Hall	H2 Whoa 2
American Society of Civil Engineers - Junior Division - Honorable Mention	Eric Chen	Midvale Middle School	A Comparison of Material Effectiveness in Preventing Ice Formation on Roads
American Society of Civil Engineers - Senior Division - First Place	Rachel Maxfield	American Preparatory Academy	Creating a Low-cost Solution to Water Problems in Developing Countries
American Society of Civil Engineers - Senior Division - Honorable Mention	Alexandria Hong	Skyline High	Emergency Water Treatment Using Household Items
American Society of Civil Engineers - Senior Division - Honorable Mention	Ryan Brady	Stansbury High School	Comparing Heat Retention in Greenhouse Models
Association for Women Geoscientists - Junior Division - First Place	Abigail Rupper & Whitney Dahle	Churchill Jr. High	Isotopes In Snow: A Global Perspective
Association for Women Geoscientists - Junior Division - Second Place	Genevieve Hohaia & Gianna Hohaia	Hillside Middle School	A Hairy Predicament
Association for Women Geoscientists - Senior Division - First Place	Sophia Wrathall	Salt Lake Center for Science Education (SLCSE)	Elemental Composition of Particulate Matter
Association for Women Geoscientists - Senior Division - Second Place	Lilian Martin	Entheos Academy	Tropical Cyclone Model: Testing Tropical Cyclone Intensity With Increased Water Temperatures in a Small Scale Model (Phase One)
ASU Walton Sustainability Solutions Initiatives	Wensen Zhang	Hillcrest High	Prediction of Hurricanes Using Neural Networks
	Acacia Ott	Salt Lake Center for Science Education (SLCSE)	How do Pollutants from Microfibers Affect Zebrafish Growth, Development, and Physiology?
	Tejita Agarwal & Anisa Habib	West High	Thyroid Cancer Trends in Communities Exposed to Nuclear Fallout
	Sophia Wrathall	Salt Lake Center for Science Education (SLCSE)	Elemental Composition of Particulate Matter
Bills Orthodontics - Elementary Division	Aidan Wigton	St. John the Baptist Middle School	Citric Acid Against Tooth Enamel
Bills Orthodontics - Secondary Division	Stella Sharp	Our Lady of Lourdes	Say Cheese
Fatpipe Engineering Award - First Place	Jake Lawlor, Lydia Smith & Alon Meir	Highland High	Does controlling positive movement of traffic volume reduce CO2 emissions compared to traditional timed traffic lights?
Fatpipe Engineering Award - Second Place	Austin Grant, Sarenidee Hin & Neelima Haynes	Beehive Academy	Sunflower Panels
Fatpipe Engineering Award - Third Place	Dannion Nelson	American Preparatory Academy	Automatic Dog-Feeding Machine

Intel Excellence in Computer Science	Ayush Nahata	Skyline High	Thermally Controlled Propagation Properties for a Metallic Terahertz Waveguide
	Shriya Pingali	West High	Using Neural Networks to Optimize Key-Length Prediction for Polyalphabetically Encrypted Text
The Leonardo - Elementary Division	Titi Nshoa Macias, Brighton Farnsworth & Gage Nichols	Channing Hall	Light It Up
The Leonardo - Secondary Division	Sasha Singh & Sahana Kargi	Beehive Academy	Virtual Reality: The new approach to education
Mission Math - Elementary Division	Chase Johnson	Morningside ALC	Do Coronal Mass Ejections (CMEs) Follow the Sunspot Cycle
Mission Math - Junior Division	Julien Grijalva	St. Joseph Elementary School	Pixel Deeplearning AI
Mu Alpha Theta	Tarun Kumar Martheswaran	The Waterford School	Exploring the Transmission and Strategic Intervention of Dengue Fever Using SIR Compartment Mathematical Modeling and Ordinary Differential Equations
	Megan Zeng	Skyline High	Developing a Mathematical Model for the Reduction of Radiation Dose in Computed Tomography
NASA Earth System Science Award	Jaspar Ruegemer	Park City High	Earth Needs To Chill! How About Some Cool Sunshades?
	Lilian Martin	Entheos Academy	Tropical Cyclone Model: Testing Tropical Cyclone Intensity With Increased Water Temperatures in a Small Scale Model (Phase One)
National Oceanic and Atmospheric Administration	Acacia Ott	Salt Lake Center for Science Education (SLCSE)	How do Pollutants from Microfibers Affect Zebrafish Growth, Development, and Physiology?
	Wensen Zhang	Hillcrest High	Prediction of Hurricanes Using Neural Networks
RecursionPharma Discovery Award	Cynthia Chen	West High	Decellularized Bone Marrow Matrix Composite Materials for Mesenchymal Stem Cell Culture
	Sai Parsawar	Hillcrest High	MS of MS: An Innovative Investigation of the Quantitative and Qualitative CSF Proteome of Multiple Sclerosis Patients using Bruker maXis II ETD Mass Spectrometry
Salt Lake Public Utilities	Grace Wang	West High	Investigating Granulated Activated Carbon Physisorption Potential for Plastic Microfiber Cleanup
	Jack Saber	J.E. Cosgriff Memorial	Using Magnetic Nanoparticle Engineering to Treat Water Polluted With Oil and Enable Recapture and Reuse of Oil
Society for In Vitro Biology	Kyllie Furukawa	Juan Diego Catholic High	Targeted Drug Delivery Using Thermoresponsive Nanotechnology for Cancer Therapy
	Cynthia Chen	West High	Decellularized Bone Marrow Matrix Composite Materials for Mesenchymal Stem Cell Culture
Society of Women Engineers - Elementary Division	Diya Oommen	Hawthorne Elementary	Stop the Slip
Society of Women Engineers - Junior Division	Marianne Liu	Midvale Middle School	Bad Hair Day
Stockholm Junior Water Prize	Leonardo Leano	Entheos Academy	Will Daphnia Magna survive in Jordan River conditions using an acute bioassay?
	Colton Meldrum	Entheos Academy	Silver Lining, or Not?
	MaryBeth Groth	Reid School	Toxic Water
	Avlynn Hammond	Entheos Academy	What water pollution does to plants
	Isaac Bromley-Dulfano & Colin Pollard	AMES High School	Water Widget
	Grace Wang	West High	Investigating Granulated Activated Carbon Physisorption Potential for Plastic Microfiber Cleanup
Student Advisory Board Special Award - Junior Division	Jack Saber	J.E. Cosgriff Memorial	Using Magnetic Nanoparticle Engineering to Treat Water Polluted With Oil and Enable Recapture and Reuse of Oil
Student Advisory Board Special Award - Senior Division	Pheonix Jones	Beehive Academy	Guardian : Anti-Bullying System
T.D. Williamson - Elementary	Maxwell Staley	McMillan Elementary	Portable Air Quality Sensor (P.A.Q.S.)
T.D. Williamson - Junior	Abigail Rupper & Whitney Dahle	Churchill Jr. High	Isotopes In Snow: A Global Perspective
US Air Force - Junior Division	Maggie Simms	J.E. Cosgriff Memorial	Does social media have an effect on a user's well-being and happiness?
	Lanee Farr	J.E. Cosgriff Memorial	Is the use of headgear effective in reducing the force to the brain that causes brain injuries?

US Air Force - Senior Division	Christopher Li	West High	Molecular and Functional Characterization of a Novel p16 Mutation in Patients with Multiple Primary Melanoma
	Tarun Kumar Martheswaran	The Waterford School	Exploring the Transmission and Strategic Intervention of Dengue Fever Using SIR Compartment Mathematical Modeling and Ordinary Differential Equations
US Metric Association	Christian Barnard, Spencer Setterberg & Skyler Nuttall	Salt Lake Center for Science Education (SLCSE)	Is there a correlation between the color of tap water and the amount of lead in it?
	Trinity Larsen & Erin Lindsey	Salt Lake Center for Science Education (SLCSE)	Lithium in Our Water
US Navy - Junior Division	Leya Joseph	J.E. Cosgriff Memorial	Does Memory Vary by Age and Gender?
	Jack Saber	J.E. Cosgriff Memorial	Using Magnetic Nanoparticle Engineering to Treat Water Polluted With Oil and Enable Recapture and Reuse of Oil
	Colleen MacWilliams	J.E. Cosgriff Memorial	How Does CO2 Affect Plant Nutrient Content?
	Huck Jones	American Preparatory Academy	A Measurement of the Onset Time of the Occipital Alpha Rhythm Using a Brain Computer Interface
	Ethan Suresh	Churchill Jr. High	Which Pathfinding Algorithm is Best?
US Navy - Senior Division	Kyllie Furukawa	Juan Diego Catholic High	Targeted Drug Delivery Using Thermoresponsive Nanotechnology for Cancer Therapy
	Clara Tandar	West High	The Possible Suppression of FSH by a Regulatory Region of FSH-B
	Wensen Zhang	Hillcrest High	Prediction of Hurricanes Using Neural Networks
Utah Department of Transportation - Elementary Division	Benjamin Stringham	Fox Hills ALC	Avoiding Tacoma Narrows Bridge
Utah Department of Transportation - Junior Division	Olivia Cowan	J.E. Cosgriff Memorial	How Many Gas Powered Cars Would Need to be Replaced by Electric Cars to Significantly Decrease the Amount of Carbon Monoxide in Salt Lake County in Terms of Automobile Produced Pollution?
Utah Department of Transportation - Senior Division	Spencer Kenison	Tooele High	Winglet Development
Water Environment Association of Utah - First Place	Rachel Maxfield	American Preparatory Academy	Creating a Low-cost Solution to Water Problems in Developing Countries
Water Environment Association of Utah - Second Place	Alexandria Hong	Skyline High	Emergency Water Treatment Using Household Items
Water Environment Association of Utah - Third Place	Matthew Yeager	Entheos Academy	Fertilizer Runoff Effects On Land Based Plants
XMission	Pheonix Jones	Beehive Academy	Guardian : Anti-Bullying System
Yale Science and Engineering	Marina Gerton	West High	Mucoadhesive HA-based film releasing metronidazole to treat bacterial vaginosis
Director's Award - Elementary Division	Hailey Martin	William Penn Elementary	Does Media Impact Girls Self-Image
Director's Award - Junior Division	Jack Saber	J.E. Cosgriff Memorial	Using Magnetic Nanoparticle Engineering to Treat Water Polluted With Oil and Enable Recapture and Reuse of Oil
Director's Award - Senior Division	Sai Parsawar	Hillcrest High	MS of MS: An Innovative Investigation of the Quantitative and Qualitative CSF Proteome of Multiple Sclerosis Patients using Bruker maXis II ETD Mass Spectrometry
Broadcom Masters	Elizabeth Bennion	Ensign Elementary	Do Rich Cities Have Better Water?
	Max Ward-Nanney	Ecker Hill Middle School	Aim, Click, Connect
	Chloe Brown	Bonneville Elementary	Howard/ Heidi Junior
	Owen Wilson	Hawthorne Elementary	Testing the Preservative Qualities of Spices on Raspberries
	Titi Nshoa Macias, Brighton Farnsworth & Gage Nichols	Channing Hall	Light It Up
	Kirsten DeGraffenried	Fox Hills ALC	Solar Power
	Maxwell Staley	McMillan Elementary	Portable Air Quality Sensor (P.A.Q.S.)
	Nicholas Zhang	Wasatch Jr. High	Shellsort Gap Sequences
	Natalie Germanov	Ensign Elementary	Beat the Inversion
	Grace Warner	American Preparatory Academy	Potty Problems: A Study of Hand Washing Habits
	George Eagleston & Dallin Soukup	Cottonwood Elementary	Radiant energy and the color spectrum
	Avery Lee & Ryley Youngberg	Grantsville Elementary	Grizzly Garbage
	William Winters & Liam Keele	Uintah Elementary	Winds Effect on Cars
	Aadya Lal	Challenger	Tsunami Simulation

	Bronwynn Hawkins	Overlake Elementary	The Future of Prosthetics
	Maggie Simms	J.E. Cosgriff Memorial	Does social media have an effect on a user's well-being and happiness?
	Lanee Farr	J.E. Cosgriff Memorial	Is the use of headgear effective in reducing the force to the brain that causes brain injuries?
	Leya Joseph	J.E. Cosgriff Memorial	Does Memory Vary by Age and Gender?
	Jack Saber	J.E. Cosgriff Memorial	Using Magnetic Nanoparticle Engineering to Treat Water Polluted With Oil and Enable Recapture and Reuse of Oil
	Abigail Rupper & Whitney Dahle	Churchill Jr. High	Isotopes In Snow: A Global Perspective
	Colleen MacWilliams	J.E. Cosgriff Memorial	How Does CO2 Affect Plant Nutrient Content?
	Nithya Mahasenan, Isabel Crofts & Lily Crofts	Channing Hall	H2 Whoa 2
	Huck Jones	American Preparatory Academy	A Measurement of the Onset Time of the Occipital Alpha Rhythm Using a Brain Computer Interface
	Ethan Suresh	Churchill Jr. High	Which Pathfinding Algorithm is Best?
	Thomas Baird & Matan Siporin	Hillside Middle School	Duct Tape Dilemma
	Caroline Cooper	West High	An Imperfect Lever
	Michael Silas	Challenger	A "Basic" Approach to CO2 Emissions
	Therese Grijalva	St. Joseph Elementary School	Pixel Deeplearning AI
	Marianne Liu	Midvale Middle School	Bad Hair Day
	Nathaniel Loveless	West High	What is the optimum printing temperature for a material in a FDM 3D printer?
	Lily Chidester & Sierra Heflin	Clayton Middle School	The Big Bone Theory: Is Bone Width Determined by Weight?
	Katie Horne	J.E. Cosgriff Memorial	Does a High Concentration of Carbon Dioxide in the Atmosphere Contribute to Global Warming?
	Eric Snauffer	Midvale Middle School	A New Guard : Evaluating Drone Propeller Guards
Genius Olympiad	Wensen Zhang	Hillcrest High	Prediction of Hurricanes Using Neural Networks