2022 Awards
Junior Category Awards

Behavioral & Social Sciences
1st Place: Anesh Illango (William "Bill" Roberts School)
2nd Place: Claire Farrell (Good Shepherd Catholic School)
3rd Place: Kabir Srivastava (Challenge School)

Biological Sciences
1st Place: Dannica Ward (Challenge School)
2nd Place: Gryffin Lawrence (Friends School)

Chemistry
1st Place: Chloe McCrea (Christ the King Roman Catholic School)
2nd Place: Brigid Morin (Good Shepherd Catholic School)
3rd Place: Massaran Ciza (Christ the King Roman Catholic School)

Earth and Environmental Sciences
1st Place: Saahithi Kasa (Challenge School)
2nd Place: Chayse Rawsky (Friends School)
3rd Place: Mathangi Kurup (Challenge School)

Engineering and Material Sciences
1st Place: Aanshi Shah (Thunder Vista P-8)
2nd Place: Izzie Delhierro (Challenge School)
3rd Place: Ernest Kolesnikov & Toshiro Nagafuji (Fox Ridge Middle School, Logan School)

Medicine and Health Sciences
1st Place: Phoebe Donovan & Lola Green (Friends School)
2nd Place: Chloe Pennington (Friends School)
3rd Place: Avi Schatz-Devine, Phoenix Borten, & Tadan Helm (Friends School)

Physics and Energy
1st Place: Mary Fernandez (Good Shepherd Catholic School)
2nd Place: Julian Parker & Jaiden Hwang (Challenge School)
3rd Place: William Larkin (Good Shepherd Catholic School)

Plant Sciences
1st Place: Mirabel Wise (Christ the King Roman Catholic School)
2nd Place: Amanda Hoang (Christ the King Roman Catholic School)
Senior Category Awards

Behavioral & Social Sciences
1st Place: Siena Negron (Skyview Academy)
2nd Place: Tyler Sunahara (Skyview Academy)

Biological Sciences
1st Place: Emma Seliskar (Evergreen Senior High School)
2nd Place: Gabe Nowak (Skyview Academy)

Earth and Environmental Sciences
1st Place: Amanda Castillo-Lopez (Cherry Creek High School)
2nd Place: Shreya Sethuramalingam (Cherry Creek High School)

Physics, Chemistry, & Energy
1st Place: Wilson Moyer (Lakewood High School)
2nd Place: Anna Lucas (Colorado Preparatory Academy)

Computer Sciences & Mathematics
1st Place: Adam Rolander (Prospect Ridge Academy)
2nd Place: Ethan Lou (Cherry Creek High School)
3rd Place: Zoe Messenger & Viravee Vashisht (Cherry Creek High School)

Engineering and Material Sciences
1st Place: Rhys Hanson (Conifer High School)
2nd Place: Samuel Law (Legacy High School)
3rd Place: Aryan Roy (Cherry Creek High School)

Medicine and Health Sciences
1st Place: Aditi Avinash (Rock Canyon High School)
2nd Place: Gitanjali Rao (STEM School Highlands Ranch)
3rd Place: Sarah Grube (Evergreen Senior High School)
Amanda Castillo-Lopez  
*Cherry Creek High School*  
Reducing Grass Irrigation using Sugarcane Waste

Max Murphy  
*Skyview Academy*  
The Air Quality in the Denver Metro Area

Anesh Ilango  
*William “Bill” Roberts School*  
The Army Within Ourselves!
1st Place: Lilla Floody  
*Evergreen Senior High School*  
The Effects of RF

2nd Place: Rhys Hanson  
*Conifer High School*  
To Apogee and Beyond

3rd Place: Jason Chen  
*Cherry Creek High School*  
Detecting Political Bias in News Articles Using Machine Learning
Nugent Family Statistical Award

Aanshi Shah
Thunder Vista P-8
Wheel of Fortune: A Novel Approach to Prevent the Wastage of Water

Ernest Kolesnikov and Toahiro Nagafuji
Fox Ridge Middle School, Logan School
Biodegradable Plastics
CHERRY CREEK BASIN WATER QUALITY AUTHORITY AWARD

Mathangi Kurup

Challenge School

Phytoremediation of Lead Contaminated Soil Using Brassica Juncea
STORMWATER PERMITTEES FOR LOCAL AWARENESS OF STREAM HEALTH AWARD

Ernest Kolesnikov and Toahiro Nagafuji

Fox Ridge Middle School, Logan School
Biodegradable Plastics
CITY AND COUNTY OF DENVER
STORMWATER EDUCATION AND
OUTREACH AWARD

Samuel Calkin
Skinner Middle School
Sprayable Biosourced Flame Retardant Viable Alternative to Toxic PFAS Retardants
Can Native Fast-Growing Surface Cover Plants Minimize the Impact of Rainfall Erosion?
COLORADO CHAPTER OF SOIL AND WATER
CONSERVATION SOCIETY

Junior Awards

1st Place
Mathangi Kurup
*Challenge School*
Phytoremediation of Lead Contaminated Soil Using
Brassica Juncea

2nd Place
Bilen Dejene
*Challenge School*
Can Native Fast-Growing Surface Cover Plants Minimize
the Impact of Rainfall Erosion?
COLORADO CHAPTER OF SOIL AND WATER
CONSERVATION SOCIETY
Senior Awards

1st Place
Amanda Castillo-Lopez
Cherry Creek High School
Water Conservation: Reducing Grass Irrigation by using
Sugar Cane Bagasse as a Soil Amendment

2nd Place
Carly Philpott
Cherry Creek High School
Effect of Agricultural Pollutants on Tardigrade Populations
Using Geospatial Data to Predict Wildfire Susceptibility
ROCKY MOUNTAIN SECTION OF THE
AMERICAN WATER WORKS ASSOCIATION

Aanshi Shah
Thunder Vista P-8
Wheel of Fortune: A Novel Approach to Prevent the Wastage of Water
ONE WORLD, ONE WATER AWARD
MSU Denver

Shreyya Setharamalingum
Cherry Creek High School
A New Water Generator: The Effects of Calcium Chloride and Silica Beads on Humidity Adsorption Rates
SOUTH PLATTE RENEW INNOVATION IN WATER AND WASTEWATER AWARD

Amanda Castillo-Lopez
Cherry Creek High School
Water Conservation: Reducing Grass Irrigation by using Sugar Cane Bagasse as a Soil Amendment
CU SCIENCE DISCOVERY AWARD

Anesh Ilango
William “Bill” Roberts School
The Army Within Ourselves!
Aditi Avinash  
*Rock Canyon High School*  
Quantitative Methods to Analyze the Synergism of Digestive Enzymes for Gluten Breakdown

Samuel Law  
*Legacy High School*  
The Optimization of the Sonic Fire Extinguisher using a Conical Collimator

Chloe Pennington  
*Friends School*  
TATAA, Celiac! A Proposed Model of Celiac DNA Isolation, Intervention, and Cure

Mathangi Kurup  
*Challenge School*  
Phytoremediation of Lead Contaminated Soil Using *Brassica Juncea*
CIRES Climate Advocate Award

Srinivas Arun
Cherry Creek High School
Using Geospatial Data to Predict Wildfire Susceptibility

Saahithi Kasa
Challenge School
The Heat of the Matter: Increasing Relative Humidity with Soil Additives

Chayse Rawsky
Friends School
Ponder This: How Wildfire Smoke Affects the Growth and Health of Ponderosa Pine Trees

Max Murphy
Christ the King Roman Catholic School
The Air Quality in the Denver Metro Area
FERRARA FAMILY AWARD FOR SCIENTIFIC ADVANCEMENT OF SOCIAL & ENVIRONMENTAL JUSTICE

Alaynah Sheppard
Challenge School
Solitary Confinement: A Cure or a Crime?

Carly Philpott
Cherry Creek High School
Effects of Agricultural Pollutants on Tardigrade Populations

Gitanjali Rao
STEM School Highlands Ranch
Early Directional Diagnosis of Prescription Opioid Addiction Using μ Opioid Receptor
Denver Mensa Award

Kabir Srivastava
Challenge School
Guess How Many: How does age affect the Wisdom of the Crowd test?

Jason Chen
Cherry Creek High School
Detecting Political Bias In News Articles Using Machine Learning
Colorado Assoc. of Science Teachers
TEACHER OF THE YEAR AWARD

Neely Clapp, PhD
Harmony Ridge P-8 School
DENVER MUESAME OF NATURE AND SCIENCE TEACHER AWARD

Stephanie Seevers
Evergreen Senior High School
SOCIETY OF PETROLEUM ENGINEERS
INNOVATION TO OVERCOME
ADVERSITY AWARD

Samuel Calkin
Skinner Middle School
Sprayable Biosourced Flame Retardant Viable Alternative to Toxic PFAS Retardants

Meredith Overton
Golden High School
Simplified Home Canning System
CO/WY AMERICAN STATISTICAL ASSOCIATION AWARD

Anesh Ilango
William “Bill” Roberts School
The Army Within Ourselves!

Nathan Yang
Cherry Creek High School
Deconvoluting Idiopathic Pulmonary Fibrosis: DNA Methylation and Cell-Type Enrichment Analyses
CU Denver Health and Behavioral Science Undergraduate Program in Public Health Award

Siena Negron
Skyview Academy
Recognizing Media Misinformation Through Auditory Analysis
Aryan Roy

Cherry Creek High School

A Novel Liquid Embolic Agent to Treat Brain Aneurysms
OUTSTANDING NEUROSCIENCE RESEARCH
CU ANSCHUTZ NEUROSCIENCE GRADUATE PROGRAM

Avienda Schatz-Devine, Tadan Helm, Phoenix Borten

Friends School
Go With the Flow
DMNS AWARD FOR OUTSTANDING SCIENCE COMMUNICATION

Aanshi Shah
Thunder Vista P-8
Wheel of Fortune: A Novel Approach to Prevent the Wastage of Water

Aditi Avinash
Rock Canyon High School
Quantitative Methods to Analyze the Synergism of Digestive Enzymes for Gluten Breakdown
DMRSEF SPIRIT OF SCIENCE AWARD

Junior Award:
Ana Gundrum
Skinner Middle School
Clothing vs. Strive Score

Senior Award:
Sarah Grube
Evergreen Senior High School
The Role that Differentially Expressed Genes Play on the Variable Phenotype of Klinefelter Syndrome
Student T-Shirt Design Contest Winner

Christina Abraham
Skyview Academy

This is what a Scientist looks like
CU Denver EUReCA! Award

Ersel Serder
*Cherry Creek High School*
Revamping the Wheel: Designing an Entrapment Resistant Mars Rover Wheel

Savanna Raley
*Evergreen Senior High School*
A Forensic Study of Decay on Buried and Unburied Chicken Carcasses in Cold Weather Climates
DMRSEF Student Choice Award: Junior Division

Isabelle Delhierro  
*Challenge School*

How can the energy created from a solenoid engine be used to create electricity to power things such as a light or a jump rope?

Chayse Rawsky  
*Friends School*

Ponder This - How Wildfire Smoke Affects the Growth and Health of Ponderosa Pine Trees
DMRSEF STUDENT CHOICE AWARD:
Senior Division

Anna Lucas
Colorado Preparatory Academy
How Half the Water in your Toilet Flush Could Power your Home

Amanda Castillo-Lopez
Cherry Creek High School
Water Conservation: Reducing Grass Irrigation by using Sugar Cane Bagasse as a Soil Amendment
American Meteorological Society Award – Wilson Moyer, Caitlin Dong
American Psychological Association Award – Tyler Sunahara
ASM Materials Education Foundation – Aryan Roy
Association for Women Geoscientists Award – Bilen Dejene
Mu Alpha Theta Award – Ethan Lou
NASA Earth System Science Award – Mathangi Kurup
National Oceanic and Atmospheric Administration Award – Srinivas Arun
National Geographic Society Award – Srinivas Arun
Ricoh USA, Inc. Award - Wilson Moyer
Society for In-Vitro Biology Award – Ella Seevers
U.S. Agency for International Development (USAID) Award – Amanda Castillo-Lopez
U.S. Metric Association Award – Lilla Floody
U.S. Stockholm Junior Water Prize – Shrreya Sethuramalingam, Anna Lucas, Amanda Castillo-Lopez
U.S. Air Force Outstanding Science Fair Project – Aanshi Shah
Yale Science & Engineering Association Award – Mikael Miao
BEST IN FAIR - JUNIOR DIVISION

1st Place
Aanshi Shah
Thunder Vista P-8

2nd Place
Saahithi Kasa
Challenge School

3rd Place
Chayse Rawsky
Friends School

Honorable Mention
Chloe McCrea
Christ the King Roman Catholic School
BEST IN FAIR - SENIOR DIVISION

1st Place
Aditi Avinash
Rock Canyon High School

2nd Place
Adam Rolander
Prospect Ridge Academy

3rd Place
Wilson Moyer
Lakewood High School

1st Alternate
Emma Seliskar
Evergreen Senior High School

2nd Alternate
Ethan Lou
Cherry Creek High School
Congratulations to all 186 participating students!
THANK YOU TO OUR SPONSORS!