

Pikes Peak Regional Science Fair 2019 Final Results

Grand Awards

International Science Fair Invitation

- Kathryn Kummel[10] [SA3], Palmer High School/Reed Carlson: “Determining if the alpine treeline ecotone is a product of a catastrophic bifurcation”
- Josh Nakka[11] & Katelynn Salmon[12] [SC7], Palmer Ridge High School/Thomas Salmon: “Engineering a portable low-cost refreshable braille device for improved communication”
- Jenna Salvat[12] [SC8], Coronado High School/Lynne Williams: “A Geochemical Analysis of Metamorphic Lithologies Surrounding The Cripple Creek and Victor Diatreme”

Senior Division Grand Award

- Josh Nakka[11] & Katelynn Salmon[12] [SC7], Palmer Ridge High School/Thomas Salmon: “Engineering a portable low-cost refreshable braille device for improved communication”

Senior Division Grand Award Runner Up

- Kathryn Kummel[10] [SA3], Palmer High School/Reed Carlson: “Determining if the alpine treeline ecotone is a product of a catastrophic bifurcation”

Junior Division Grand Award

- Luke Nielsen[8] [8E3], The Classical Academy JHS/Candus Muir: “Delta irrigation”

Junior Division Grand Award Runner Up

- Samantha Cerniglia[7] [MD4], The Classical Academy JHS/Candus Muir: “Shields up!”

Senior Division People’s Choice

- Naudia Jamison[10] [SA6], Sand Creek High School/Caitlin Casai: “The effect of fresh ginger tea on your menstrual cycle”

Junior Division People’s Choice

- Joshua Decker[7] [ME5], The Classical Academy JHS/Candus Muir: “No more bike crashes!”
- Xander Duvall[8] [8E13], Thomas MacLaren School/Robert Holiday: “Variable scintillation frequencies in muon detection”

Senior Awards

Senior Life Sciences

First Place – Senior Life Sciences

- Kathryn Kummel[10] [SA3], Palmer High School/Reed Carlson: “Determining if the alpine treeline ecotone is a product of a catastrophic bifurcation”

Second Place – Senior Life Sciences

- Ariel Bowden[12] [SA10], Miami Yoder Secondary School/Angela Grimes: “Ispy: Malevolent observation”

Third Place – Senior Life Sciences

- Abby Klapp[9] [SA11], Palmer Ridge High School/Elizabeth Phillips: “Sport climbing – The impact on spatial awareness”

Fourth Place – Senior Life Sciences

- Alden Kruse[10] [SA1], Schullandheim/Tami Kruse: “Where has all the *Ceanothus magacarpus* gone?”

Senior Physical Sciences

First Place – Senior Physical Sciences

- Josh Nakka[11] & Katelynn Salmon[12] [SC7], Palmer Ridge High School/Thomas Salmon: “Engineering a portable low-cost refreshable braille device for improved communication”

Second Place – Senior Physical Sciences

- Jenna Salvat[12] [SC8], Coronado High School/Lynne Williams: “A Geochemical Analysis of Metamorphic Lithologies Surrounding The Cripple Creek and Victor Diatreme”

Third Place – Senior Physical Sciences

- Mark Bloomfield[11] [SC9], Coronado High School/David Bloomfield: “Charged up: Testing lithium ion battery performance using a Raspberry Pi load cell”

Junior Awards – Grades 6-8

Grades 6 & 7 Life Science

First Place – Grades 6 & 7 Life Science

- Tori Plett[7] [MA3], The Classical Academy JHS/Candus Muir: “Germs on a roll”

Second Place – Grades 6 & 7 Life Science

- Elba Green[7] [MA4], The Classical Academy JHS/Candus Muir: “Investigating if essential oils effect physarum polycephalum”

Third Place – Grades 6 & 7 Life Science

- Joe Silsby[7] [MA7], The Classical Academy JHS/Candus Muir: “Sweet water”

Grades 6 & 7 Biochem, Medicine, Health

First Place – Grades 6 & 7 Biochem, Medicine, Health

- Chyera Robert[7] [MB4], The Classical Academy JHS/Candus Muir: “People love fruit, but do they really love each other?”

Second Place – Grades 6 & 7 Biochem, Medicine, Health

- Shelby Nice[7] [MB3], The Classical Academy JHS/Candus Muir: “Do granite countertops affect the shelf life of produce”

Third Place – Grades 6 & 7 Biochem, Medicine, Health

- Inbha Roshan Raguraman[7] [MB10], Discovery Canyon Middle School/Beulah Aloysius: “D-watch: Smart tracker for Vitamin D”

Fourth Place – Grades 6 & 7 Biochem, Medicine, Health

- Lauren Lee[7] [MB6], The Classical Academy JHS/Candus Muir: “Saving your strawberries”

Grades 6 & 7 Social & Behavioral Science

First Place – Grades 6 & 7 Social & Behavioral Science

- Lauryn Tepley[7] [MC2], The Classical Academy JHS/Candus Muir: “Synchronic mnemonics (analyzing the effect of mnemonic devices in memorization)”

Second Place – Grades 6 & 7 Social & Behavioral Science

- Daniel Strevett[7] [MC6], The Classical Academy JHS/Candus Muir: “Sick of stress”

Grades 6 & 7 Physical Sciences

First Place – Grades 6 & 7 Physical Sciences

- Samantha Cerniglia[7] [MD4], The Classical Academy JHS/Candus Muir: “Shields up!”

Second Place – Grades 6 & 7 Physical Sciences

- Michael Wu[7] [MD6], The Classical Academy JHS/Candus Muir: “Led lights: Hero or zero”

Third Place – Grades 6 & 7 Physical Sciences

- Levi Archambault[7] [MD11], The Classical Academy JHS/Candus Muir: “This will blow you away”

Fourth Place – Grades 6 & 7 Physical Sciences

- Kelsea Hall[7] & Lillian Klapp[6] [MD5], Lewis Palmer Middle School/Maria Hall: “Leaky yellow boy”

Fifth Place – Grades 6 & 7 Physical Sciences

- Ezra Voth[7] [MD10], The Classical Academy JHS/Candus Muir: “Slow the flow: Working to control soil erosion with rocks”

Grades 6 & 7 Engineering

First Place – Grades 6 & 7 Engineering

- Kai Morton[7] [ME10], The Classical Academy JHS/Candus Muir: “A game for all eyes”

Second Place – Grades 6 & 7 Engineering

- Joshua Decker[7] [ME5], The Classical Academy JHS/Candus Muir: “No more bike crashes!”

Third Place – Grades 6 & 7 Engineering

- Kevin Lester[7] [ME4], The Classical Academy JHS/Candus Muir: “Cheaper, but durable shingles”

Fourth Place – Grades 6 & 7 Engineering

- Aditya Gonella[7] [ME6], Discovery Canyon Middle School/Sujatha Gonelia: “Water me when I’m thirsty”

Fifth Place – Grades 6 & 7 Engineering

- Dylan Dye[7] [ME3], The Classical Academy JHS/Candus Muir: “The super scooper”

Junior Awards – Eighth Grade

Grade 8 Life Science

First Place – Grade 8 Life Science

- Ethan Gavin[8] [8A6], The Classical Academy JHS/Candus Muir: “Shining a light on cross-contamination”

Second Place – Grade 8 Life Science

- Faith Roberts[8] [8A9], The Classical Academy JHS/Candus Muir: “Clove the killer”

Third Place – Grade 8 Life Science

- Norah Quirk[8] [8A5], The Classical Academy JHS/Candus Muir: “An old remedy given new life”

Fourth Place – Grade 8 Life Science

- Courtney Croom[8] [8A10], The Classical Academy JHS/Candus Muir: “The separation of DNA by applying thermal heat”

Grade 8 Physical Science & Engineering

First Place – Grade 8 Physical Science & Engineering

- Luke Nielsen[8] [8E3], The Classical Academy JHS/Candus Muir: “Delta irrigation”

Second Place – Grade 8 Physical Science & Engineering

- Hailey Kressin[8] [8E10], The Classical Academy JHS/Candus Muir: “A sixth sense: Omni-directional presence detection system”

Third Place – Grade 8 Physical Science & Engineering

- Austin Cantor[8] [8E2], The Classical Academy JHS/Candus Muir: “Hail! No!”

Fourth Place – Grade 8 Physical Science & Engineering

- Benjamin Homan[8] [8E1], Monument Academy/Karl Brown: “Does pressure affect carbon dioxide absorption by polyethyleneimine?”

Fifth Place – Grade 8 Physical Science & Engineering

- Xander Duvall[8] [8E13], Thomas MacLaren School/Robert Holiday: “Variable scintillation frequencies in muon detection”

Grade 8 Social/Behavioral Science

First Place – Grade 8 Social/Behavioral Science

- Kate Mastrolia[8] [8F5], The Classical Academy JHS/Candus Muir: “Analyzing the effect of lifestyle on problem solving”

Second Place – Grade 8 Social/Behavioral Science

- Isabella Tyler[8] [8F3], The Classical Academy JHS/Candus Muir: “Teamwork: Boys vs. girls”

Grade 8 Environmental Science

First Place – Grade 8 Environmental Science

- Noah Archambault[8] [8G4], The Classical Academy JHS/Candus Muir: “Does CO₂ affect you?”

Second Place – Grade 8 Environmental Science

- Meghan Enright[8] [8G2], The Classical Academy JHS/Candus Muir: “Stay away or get sprayed away!”

Third Place – Grade 8 Environmental Science

- Jillian Lange[8] [8G6], Colorado Springs Charter Academy/Kali Moon: “Macroinvertebrate biotic index”

State Fair

State Fair Invitations

State Fair Invitation

- Tori Plett[7] [MA3], The Classical Academy JHS/Candus Muir: “Germs on a roll”
- Elba Green[7] [MA4], The Classical Academy JHS/Candus Muir: “Investigating if essential oils effect physarum polycephalum”
- Joe Silsby[7] [MA7], The Classical Academy JHS/Candus Muir: “Sweet water”
- Shelby Nice[7] [MB3], The Classical Academy JHS/Candus Muir: “Do granite countertops affect the shelf life of produce”
- Chyera Robert[7] [MB4], The Classical Academy JHS/Candus Muir: “People love fruit, but do they really love each other?”
- Lauren Lee[7] [MB6], The Classical Academy JHS/Candus Muir: “Saving your strawberries”
- Inbha Roshan Raguraman[7] [MB10], Discovery Canyon Middle School/Beulah Aloysius: “D-watch: Smart tracker for Vitamin D”
- Lauryn Tepley[7] [MC2], The Classical Academy JHS/Candus Muir: “Synchronic mnemonics (analyzing the effect of mnemonic devices in memorization)”
- Daniel Strevett[7] [MC6], The Classical Academy JHS/Candus Muir: “Sick of stress”
- Samantha Cerniglia[7] [MD4], The Classical Academy JHS/Candus Muir: “Shields up!”
- Kelsea Hall[7] & Lillian Klapp[6] [MD5], Lewis Palmer Middle School/Maria Hall: “Leaky yellow boy”
- Michael Wu[7] [MD6], The Classical Academy JHS/Candus Muir: “Led lights: Hero or zero”
- Levi Archambault[7] [MD11], The Classical Academy JHS/Candus Muir: “This will blow you away”
- Kevin Lester[7] [ME4], The Classical Academy JHS/Candus Muir: “Cheaper, but durable shingles”
- Joshua Decker[7] [ME5], The Classical Academy JHS/Candus Muir: “No more bike crashes!”
- Aditya Gonella[7] [ME6], Discovery Canyon Middle School/Sujatha Gonelia: “Water me when I’m thirsty”
- Kai Morton[7] [ME10], The Classical Academy JHS/Candus Muir: “A game for all eyes”
- Norah Quirk[8] [8A5], The Classical Academy JHS/Candus Muir: “An old remedy given new life”
- Ethan Gavin[8] [8A6], The Classical Academy JHS/Candus Muir: “Shining a light on cross-contamination”
- Faith Roberts[8] [8A9], The Classical Academy JHS/Candus Muir: “Clove the killer”
- Courtney Croom[8] [8A10], The Classical Academy JHS/Candus Muir: “The separation of DNA by applying thermal heat”
- Benjamin Homan[8] [8E1], Monument Academy/Karl Brown: “Does pressure affect carbon dioxide absorption by polyethyleneimine?”
- Austin Cantor[8] [8E2], The Classical Academy JHS/Candus Muir: “Hail! No!”

- Luke Nielsen[8] [8E3], The Classical Academy JHS/Candus Muir: “Delta irrigation”
- Hailey Kressin[8] [8E10], The Classical Academy JHS/Candus Muir: “A sixth sense: Omni-directional presence detection system”
- Xander Duvall[8] [8E13], Thomas MacLaren School/Robert Holiday: “Variable scintillation frequencies in muon detection”
- Isabella Tyler[8] [8F3], The Classical Academy JHS/Candus Muir: “Teamwork: Boys vs. girls”
- Kate Mastrolia[8] [8F5], The Classical Academy JHS/Candus Muir: “Analyzing the effect of lifestyle on problem solving”
- Meghan Enright[8] [8G2], The Classical Academy JHS/Candus Muir: “Stay away or get sprayed away!”
- Noah Archambault[8] [8G4], The Classical Academy JHS/Candus Muir: “Does CO₂ affect you?”
- Jillian Lange[8] [8G6], Colorado Springs Charter Academy/Kali Moon: “Macroinvertebrate biotic index”
- Alden Kruse[10] [SA1], Schullandheim/Tami Kruse: “Where has all the *Ceanothus magacarpus* gone?”
- Kathryn Kummel[10] [SA3], Palmer High School/Reed Carlson: “Determining if the alpine treeline ecotone is a product of a catastrophic bifurcation”
- Ariel Bowden[12] [SA10], Miami Yoder Secondary School/Angela Grimes: “Ispy: Malevolent observation”
- Abby Klapp[9] [SA11], Palmer Ridge High School/Elizabeth Phillips: “Sport climbing – The impact on spatial awareness”
- Kate Kaczmarek[9] [SC5], The Classical Academy SHS/Candus Muir: “Tiny hand clan”
- Josh Nakka[11] & Katelynn Salmon[12] [SC7], Palmer Ridge High School/Thomas Salmon: “Engineering a portable low-cost refreshable braille device for improved communication”
- Jenna Salvat[12] [SC8], Coronado High School/Lynne Williams: “A Geochemical Analysis of Metamorphic Lithologies Surrounding The Cripple Creek and Victor Diatreme”
- Mark Bloomfield[11] [SC9], Coronado High School/David Bloomfield: “Charged up: Testing lithium ion battery performance using a Raspberry Pi load cell”

Special Awards

AFCEA Junior 1st

- Hailey Kressin[8] [8E10], The Classical Academy JHS/Candus Muir: “A sixth sense: Omni-directional presence detection system”

AFCEA Junior 2nd

- Xander Duvall[8] [8E13], Thomas MacLaren School/Robert Holiday: “Variable scintillation frequencies in muon detection”

AFCEA Junior 3rd

- Benjamin Homan[8] [8E1], Monument Academy/Karl Brown: “Does pressure affect carbon dioxide absorption by polyethyleneimine?”

AFCEA Senior 1st

- Mark Bloomfield[11] [SC9], Coronado High School/David Bloomfield: “Charged up: Testing lithium ion battery performance using a Raspberry Pi load cell”

AFCEA Senior 2nd

- Jenna Salvat[12] [SC8], Coronado High School/Lynne Williams: “A Geochemical Analysis of Metamorphic Lithologies Surrounding The Cripple Creek and Victor Diatreme”

AFCEA Senior 3rd

- Josh Nakka[11] & Katelynn Salmon[12] [SC7], Palmer Ridge High School/Thomas Salmon: “Engineering a portable low-cost refreshable braille device for improved communication”

AFCEA Teacher Junior

- Candus Muir, The Classical Academy

AFCEA Teacher Senior

- Angela Grimes, Miami Yoder Secondary School

American Association of University Women, Junior

- Hailey Kressin[8] [8E10], The Classical Academy JHS/Candus Muir: “A sixth sense: Omni-directional presence detection system”

American Association of University Women, Senior

- Jenna Salvat[12] [SC8], Coronado High School/Lynne Williams: “A Geochemical Analysis of Metamorphic Lithologies Surrounding The Cripple Creek and Victor Diatreme”

American Meteorological Society

- Kelsea Hall[7] & Lillian Klapp[6] [MD5], Lewis Palmer Middle School/Maria Hall: “Leaky yellow boy”
- Benjamin Homan[8] [8E1], Monument Academy/Karl Brown: “Does pressure affect carbon dioxide absorption by polyethyleneimine?”

American Psychological Association

- Ariel Bowden[12] [SA10], Miami Yoder Secondary School/Angela Grimes: “Ispy: Malevolent observation”

American Society for Materials, International

- Blake Bowshot[8] [8G3], The Classical Academy JHS/Candus Muir: “Don’t crack me up!”

American Statistical Association, Jr.

- Michael Wu[7] [MD6], The Classical Academy JHS/Candus Muir: “Led lights: Hero or zero”

American Statistical Association, Sr.

- Mark Bloomfield[11] [SC9], Coronado High School/David Bloomfield: “Charged up: Testing lithium ion battery performance using a Raspberry Pi load cell”

Applied Health Sciences

- Naudia Jamison[10] [SA6], Sand Creek High School/Caitlin Casai: “The effect of fresh ginger tea on your menstrual cycle”

Ascension Engineering Group Junior First

- Kai Morton[7] [ME10], The Classical Academy JHS/Candus Muir: “A game for all eyes”

Ascension Engineering Group Junior Second

- Joshua Decker[7] [ME5], The Classical Academy JHS/Candus Muir: “No more bike crashes!”

Ascension Engineering Group Senior First

- Josh Nakka[11] & Katelynn Salmon[12] [SC7], Palmer Ridge High School/Thomas Salmon: “Engineering a portable low-cost refreshable braille device for improved communication”

Ascension Engineering Group Senior Second

- Mark Bloomfield[11] [SC9], Coronado High School/David Bloomfield: “Charged up: Testing lithium ion battery performance using a Raspberry Pi load cell”

Association for Women Geoscientists

- Jenna Salvat[12] [SC8], Coronado High School/Lynne Williams: “A Geochemical Analysis of Metamorphic Lithologies Surrounding The Cripple Creek and Victor Diatreme”

BSCS Award

- Kathryn Kummel[10] [SA3], Palmer High School/Reed Carlson: “Determining if the alpine treeline ecotone is a product of a catastrophic bifurcation”

Broadcom MASTERS

- Lauryn Tepley[7] [MC2], The Classical Academy JHS/Candus Muir: “Synchronic mnemonics (analyzing the effect of mnemonic devices in memorization)”
- Samantha Cerniglia[7] [MD4], The Classical Academy JHS/Candus Muir: “Shields up!”
- Kai Morton[7] [ME10], The Classical Academy JHS/Candus Muir: “A game for all eyes”
- Ethan Gavin[8] [8A6], The Classical Academy JHS/Candus Muir: “Shining a light on cross-contamination”
- Benjamin Homan[8] [8E1], Monument Academy/Karl Brown: “Does pressure affect carbon dioxide absorption by polyethyleneimine?”
- Austin Cantor[8] [8E2], The Classical Academy JHS/Candus Muir: “Hail! No!”
- Luke Nielsen[8] [8E3], The Classical Academy JHS/Candus Muir: “Delta irrigation”

- Hailey Kressin[8] [8E10], The Classical Academy JHS/Candus Muir: “A sixth sense: Omni-directional presence detection system”
- Xander Duvall[8] [8E13], Thomas MacLaren School/Robert Holiday: “Variable scintillation frequencies in muon detection”
- Kate Mastrolia[8] [8F5], The Classical Academy JHS/Candus Muir: “Analyzing the effect of lifestyle on problem solving”

Citizens Project

- Jacob Gaona[7] [MC1], The Classical Academy JHS/Candus Muir: “Double or nothing?”
- Shaylinn Lawrence[10] [SA4], Miami Yoder Secondary School/Angela Grimes: “Homemade hand cream”

Colorado Associates in Medical Physics 1st

- Kelsea Hall[7] & Lillian Klapp[6] [MD5], Lewis Palmer Middle School/Maria Hall: “Leaky yellow boy”

Colorado Associates in Medical Physics 2nd

- Aditya Gonella[7] [ME6], Discovery Canyon Middle School/Sujatha Gonelia: “Water me when I’m thirsty”

Colorado Chapter of the Soil and Water Conservation Society, Junior 1st

- Ezra Voth[7] [MD10], The Classical Academy JHS/Candus Muir: “Slow the flow: Working to control soil erosion with rocks”
- Samantha Manuszak[8] [8G5], North Middle School/Andrew Groth: “Testing water filtration systems”

Colorado Chapter of the Soil and Water Conservation Society, Junior 2nd

- Kelsea Hall[7] & Lillian Klapp[6] [MD5], Lewis Palmer Middle School/Maria Hall: “Leaky yellow boy”
- Luke Nielsen[8] [8E3], The Classical Academy JHS/Candus Muir: “Delta irrigation”

Colorado College Excellence in Community and Social Justice First

- Parnika Shankar[7] [MB11], Discovery Canyon Middle School/Gowrisankar Radhakrishnan: “Bitter gourd . . . for a sweet life”

Colorado College Excellence in Community and Social Justice Second

- Zia Oellig[8] [8F6], North Middle School/Andrew Groth: “Stuck on stereotypes”

Colorado College Excellence in Field-Based Research First

- Hudson Kruse[8] [8G7], Schullandheim/Tami Kruse: “A comparative study of post fire chaparral plants”

Colorado College Excellence in Field-Based Research Second

- Tori Plett[7] [MA3], The Classical Academy JHS/Candus Muir: “Germ on a roll”

Colorado College Excellence in Rocky Mountain Regional Research First

- Kathryn Kummel[10] [SA3], Palmer High School/Reed Carlson: “Determining if the alpine treeline ecotone is a product of a catastrophic bifurcation”

Colorado College Excellence in Rocky Mountain Regional Research Second

- Jenna Salvat[12] [SC8], Coronado High School/Lynne Williams: “A Geochemical Analysis of Metamorphic Lithologies Surrounding The Cripple Creek and Victor Diatreme”

Colorado College Excellence in Sustainability and Conservation First

- Lauren Cook[7] [MA1], The Classical Academy JHS/Candus Muir: “Battle of the plants: A fight for nutrient density”

Colorado College Excellence in Sustainability and Conservation Second

- Carson Snow[7] [MA8], The Classical Academy JHS/Candus Muir: “A chemical salad”

Deep Space Exploration Society Jr. Division

- Benjamin Homan[8] [8E1], Monument Academy/Karl Brown: “Does pressure affect carbon dioxide absorption by polyethyleneimine?”
- Hailey Kressin[8] [8E10], The Classical Academy JHS/Candus Muir: “A sixth sense: Omnidirectional presence detection system”

Deep Space Exploration Society Sr. Division

- Mark Bloomfield[11] [SC9], Coronado High School/David Bloomfield: “Charged up: Testing lithium ion battery performance using a Raspberry Pi load cell”

Duvall Family Curiosity Award

- Jackson Keating[6] [MD9], North Middle School/Jennifer Ulrich: “Testing the pH and alkalinity level of different types of water”

Estes Industries

- Benjamin Homan[8] [8E1], Monument Academy/Karl Brown: “Does pressure affect carbon dioxide absorption by polyethyleneimine?”
- Xander Duvall[8] [8E13], Thomas MacLaren School/Robert Holiday: “Variable scintillation frequencies in muon detection”

Flagline.com Young Scientist, Junior 1st Place

- Kelsea Hall[7] & Lillian Klapp[6] [MD5], Lewis Palmer Middle School/Maria Hall: “Leaky yellow boy”

Flagline.com Young Scientist, Junior 2nd Place

- Aditya Gonella[7] [ME6], Discovery Canyon Middle School/Sujatha Gonelia: “Water me when I’m thirsty”

Flagline.com Young Scientist, Senior 1st Place

- Madelyn McLaughlin[9] [SC4], Schullandheim/Tami Kruse: “Testing honey for toxic pesticides”

Flagline.com Young Scientist, Senior 2nd Place

- Abby Klapp[9] [SA11], Palmer Ridge High School/Elizabeth Phillips: “Sport climbing – The impact on spatial awareness”

Georgia & Charlie Matteson Award, Junior

- Ezra Voth[7] [MD10], The Classical Academy JHS/Candus Muir: “Slow the flow: Working to control soil erosion with rocks”

Georgia & Charlie Matteson Award, Senior

- Jenna Salvat[12] [SC8], Coronado High School/Lynne Williams: “A Geochemical Analysis of Metamorphic Lithologies Surrounding The Cripple Creek and Victor Diatreme”

Intel Corp. Excellence in Computer Science

- Connor Takenaka[8] [8E11], The Classical Academy JHS/Candus Muir: “Cybersecurity: Defending our computers”

Mu Alpha Theta

- Jenna Salvat[12] [SC8], Coronado High School/Lynne Williams: “A Geochemical Analysis of Metamorphic Lithologies Surrounding The Cripple Creek and Victor Diatreme”

NASA EARTH System Science Award

- Jenna Salvat[12] [SC8], Coronado High School/Lynne Williams: “A Geochemical Analysis of Metamorphic Lithologies Surrounding The Cripple Creek and Victor Diatreme”

NOAA Award

- Alden Kruse[10] [SA1], Schullandheim/Tami Kruse: “Where has all the *Ceanothus magacarpus* gone?”

National Defense Industrial Association, 6th First

- Kelsea Hall[7] & Lillian Klapp[6] [MD5], Lewis Palmer Middle School/Maria Hall: “Leaky yellow boy”

National Defense Industrial Association, 6th Second

- Jackson Keating[6] [MD9], North Middle School/Jennifer Ulrich: “Testing the pH and alkalinity level of different types of water”

National Defense Industrial Association, 7th First

- Samantha Schaefer[7] [MD8], The Classical Academy JHS/Candus Muir: “Energy efficiency”

National Defense Industrial Association, 7th Second

- Samantha Cerniglia[7] [MD4], The Classical Academy JHS/Candus Muir: “Shields up!”

National Defense Industrial Association, 8th First

- Kaiden Hill[8] [8E9], Schullandheim/Tami Kruse: “Solar powered skid prevention”

National Defense Industrial Association, 8th Second

- Connor Takenaka[8] [8E11], The Classical Academy JHS/Candus Muir: “Cybersecurity: Defending our computers”

Northrop Grumman Excellence in Computer Science

- Xander Duvall[8] [8E13], Thomas MacLaren School/Robert Holiday: “Variable scintillation frequencies in muon detection”

Northrop Grumman Excellence in Science & Engineering (7th Grade)

- Ethyn Ruiz[7] [ME9], Imagine Classical Academy/Brian Bly: “Hydraulic help”

Northrop Grumman Excellence in Science & Engineering (8th Grade)

- Hailey Kressin[8] [8E10], The Classical Academy JHS/Candus Muir: “A sixth sense: Omnidirectional presence detection system”

Northrop Grumman Excellence in Science & Engineering (Sr. Div.)

- Erick Lopez[10] [SC3], Miami Yoder Secondary School/Angela Grimes: “Using solar radiation”
- Josh Nakka[11] & Katelynn Salmon[12] [SC7], Palmer Ridge High School/Thomas Salmon: “Engineering a portable low-cost refreshable braille device for improved communication”
- Mark Bloomfield[11] [SC9], Coronado High School/David Bloomfield: “Charged up: Testing lithium ion battery performance using a Raspberry Pi load cell”

Old Town Bike Shop

- Lauren Cook[7] [MA1], The Classical Academy JHS/Candus Muir: “Battle of the plants: A fight for nutrient density”
- Samantha Schaefer[7] [MD8], The Classical Academy JHS/Candus Muir: “Energy efficiency”
- Jaida Miles[8] [8G1], The Classical Academy JHS/Candus Muir: “Renewable energy through animal waste”

Patent & Trademark Office Society

- Amari Luu[7] [MB8], The Classical Academy JHS/Candus Muir: “The power of essential oils”
- Inbha Roshan Raguraman[7] [MB10], Discovery Canyon Middle School/Beulah Aloysius: “D-watch: Smart tracker for Vitamin D”
- Kathryn Kummel[10] [SA3], Palmer High School/Reed Carlson: “Determining if the alpine treeline ecotone is a product of a catastrophic bifurcation”
- Josh Nakka[11] & Katelynn Salmon[12] [SC7], Palmer Ridge High School/Thomas Salmon: “Engineering a portable low-cost refreshable braille device for improved communication”

Pikes Peak Justice and Peace Commission

- Elizabeth Radersma[7] [MB9], The Classical Academy JHS/Candus Muir: “Waking up: It’s a thing”
- Lauryn Tepley[7] [MC2], The Classical Academy JHS/Candus Muir: “Synchronic mnemonics (analyzing the effect of mnemonic devices in memorization)”

Ricoh Americas

- Jessie Zimmermann[10] [SA7], The Vanguard School/Jill Miller: “Disinfection methods used on contaminated water”

Society for In-Vitro Biology

- Jessie Zimmermann[10] [SA7], The Vanguard School/Jill Miller: “Disinfection methods used on contaminated water”

Society of Women Engineers Jr. Division

- Alexis Johnston[7] [ME7], The Classical Academy JHS/Candus Muir: “Clean it like you mean it”

Society of Women Engineers Sr. Division

- Kathryn Kummel[10] [SA3], Palmer High School/Reed Carlson: “Determining if the alpine treeline ecotone is a product of a catastrophic bifurcation”

Stockholm Water Prize

- Jessie Zimmermann[10] [SA7], The Vanguard School/Jill Miller: “Disinfection methods used on contaminated water”

U. S. Air Force

- Ansleigh Groth[7] [MD14], North Middle School/Andrew Groth: “How weight affects flying paper airplanes”
- Ethyn Ruiz[7] [ME9], Imagine Classical Academy/Brian Bly: “Hydraulic help”
- Chandler Wilburn[8] [8E4], The Classical Academy JHS/Candus Muir: “Analyzing how various hydroelectric designs can ameliorate the accessibility of tidal power”
- Jonathan Martinez[10] [SC2], Miami Yoder Secondary School/Angela Grimes: “Shoe design”

U. S. Metric Association Certificate of Achievement

- Samantha Schaefer[7] [MD8], The Classical Academy JHS/Candus Muir: “Energy efficiency”

U. S. Navy Science Award, Jr.

- Josie Kueck[7] [MA2], The Classical Academy JHS/Candus Muir: “Bone-a-paw-treat”
- Hailey Kressin[8] [8E10], The Classical Academy JHS/Candus Muir: “A sixth sense: Omni-directional presence detection system”

U. S. Navy Science Award, Sr.

- Kathryn Kummel[10] [SA3], Palmer High School/Reed Carlson: “Determining if the alpine treeline ecotone is a product of a catastrophic bifurcation”
- Naudia Jamison[10] [SA6], Sand Creek High School/Caitlin Casai: “The effect of fresh ginger tea on your menstrual cycle”

UCCS Dept. of Chemistry & Biochemistry

- Jenna Salvat[12] [SC8], Coronado High School/Lynne Williams: “A Geochemical Analysis of Metamorphic Lithologies Surrounding The Cripple Creek and Victor Diatreme”

Yale Science & Engineering Association

- Mark Bloomfield[11] [SC9], Coronado High School/David Bloomfield: “Charged up: Testing lithium ion battery performance using a Raspberry Pi load cell”