

Pikes Peak Regional Science Fair 2018 Final Results

Grand Awards

International Science Fair Invitation

- Katelynn Salmon[11] [SA10], Palmer Ridge High School/Tom Salmon: “Synthesis of perfluorinatedpyridine-acetylene for click-coupled linear polymerization”
- Jenna Salvat[11] [SC11], Coronado High School/Lynne Williams: “Geophone Phase 1: Synthesis and characterization of a ZnO NiO P-N type semiconductor junction”
- Kathryn Kummel[9] & Michelle Kummel[12] [SC12], Palmer High School/Geoffrey Lewis & Reed Carlson: “Using 3D drone-based digital models to investigate the fluvial geomorphology of an actively eroding arroyo”

Senior Division Grand Award

- Katelynn Salmon[11] [SA10], Palmer Ridge High School/Tom Salmon: “Synthesis of perfluorinatedpyridine-acetylene for click-coupled linear polymerization”

Senior Division Grand Award Runner Up

- Jenna Salvat[11] [SC11], Coronado High School/Lynne Williams: “Geophone Phase 1: Synthesis and characterization of a ZnO NiO P-N type semiconductor junction”
- Kathryn Kummel[9] & Michelle Kummel[12] [SC12], Palmer High School/Geoffrey Lewis & Reed Carlson: “Using 3D drone-based digital models to investigate the fluvial geomorphology of an actively eroding arroyo”

Junior Division Grand Award

- Gryphon Patlin[8] [JE9], Classical Academy Junior High/Dawn Ehresman: “Drop notice”

Junior Division Grand Award Runner Up

- Luke Nielsen[7] [7C9], Classical Academy Junior High/Candus Muir: “Still sitting?”

Senior Division People’s Choice

- Kathryn Kummel[9] & Michelle Kummel[12] [SC12], Palmer High School/Geoffrey Lewis & Reed Carlson: “Using 3D drone-based digital models to investigate the fluvial geomorphology of an actively eroding arroyo”

Junior Division People’s Choice

- Isabella Hodges[7] [JB10], Classical Academy Junior High/Candus Muir: “Smarty pants take a stance!”

Senior Awards

Senior Division Life Sciences

First Place – Senior Division Life Sciences

- Katelynn Salmon[11] [SA10], Palmer Ridge High School/Tom Salmon: “Synthesis of perfluorinatedpyridine-acetylene for click-coupled linear polymerization”

Second Place – Senior Division Life Sciences

- Emma Palmer[9] [SA8], The Vanguard School/Cheryl Holling: “The effect of caffeine versus energy drinks on *daphnia*’s heart rate”

Third Place – Senior Division Life Sciences

- Tyler Nelson[9] [SA7], The Vanguard School/Cheryl Holling: “The temperature effect on a *Physarum polycephalum*’s diet”

Fourth Place – Senior Division Life Sciences

- Jessie Zimmermann[9] [SA3], The Vanguard School/Cheryl Holling: “The best way to disinfect kitchen sponges through household appliances”

Senior Division Health & Behavioral Sciences

First Place – Senior Division Behavioral Science

- Paige Carlson[9] [SB2], The Vanguard School/Cheryl Holling: “Does music affect the speed of tasks”

Second Place – Senior Division Behavioral Science

- Ariel Bowden[11] [SB3], Miami Yoder Secondary School/Angela Golding: “iStress: A game of phones”

Senior Division Physical Sciences

First Place – Senior Division Physical Sciences

- Jenna Salvat[11] [SC11], Coronado High School/Lynne Williams: “Geophone Phase 1: Synthesis and characterization of a ZnO NiO P-N type semiconductor junction”
- Kathryn Kummel[9] & Michelle Kummel[12] [SC12], Palmer High School/Geoffrey Lewis & Reed Carlson: “Using 3D drone-based digital models to investigate the fluvial geomorphology of an actively eroding arroyo”

Third Place – Senior Division Physical Sciences

- Mark Bloomfield[10] [SC1], Coronado High School/David Bloomfield: “Heating up: Using phase change materials vs. a thermal battery”

Fourth Place – Senior Division Physical Sciences

- Eric Bauman[9] [SC2], Classical Academy High School/Jennifer Smith: “In the absence of air revisited”

Junior Awards – Grades 6-8

Junior Biological Science

First Place – Junior Biological Sciences

- Chance Jurkiewicz[8] [JA5], Classical Academy Junior High/Candus Muir: “To pot or not”

Second Place – Junior Biological Sciences

- Blake Bowshot[7] [JA2], Classical Academy Junior High/Candus Muir: “Nature’s magnificent medicine: Aloe vera”

Third Place – Junior Biological Sciences

- Clare Wiersma[7] [JA10], Classical Academy Junior High/Candus Muir: “The night time to water?”

Fourth Place – Junior Biological Sciences

- Ava Connelly[6] [JA3], Monument Academy/Kris Goodman: “Warmth without the womb”

Junior Social & Behavioral Sciences

First Place – Junior Social & Behavioral Sciences

- Chloe Haerr[7] [JB9], Classical Academy Junior High/Candus Muir: “Stress test”

Second Place – Junior Social & Behavioral Sciences

- Kate Kaczmarek[8] [JB5], Classical Academy Junior High/Candus Muir: “The effect of classical music tempo on competitive run times”

Third Place – Junior Social & Behavioral Sciences

- Chloe Bennett[7] [JB1], Classical Academy Junior High/Candus Muir: “Zen testing”

Fourth Place – Junior Social & Behavioral Sciences

- Isabella Tyler[7] [JB8], Classical Academy Junior High/Candus Muir: “Learning types: Auditory or visual?”

Junior Energy, Earth & Space Sciences

First Place – Junior Energy, Earth & Space Sciences

- Joshua Vu[7] [JC5], Classical Academy Junior High/Candus Muir: “Maximizing efficiency when generating clean energy”

Second Place – Junior Energy, Earth & Space Sciences

- Zakery Snider[8] [JC7], Classical Academy Junior High/Candus Muir: “Your rubbish my joules”

Third Place – Junior Energy, Earth & Space Sciences

- Connor Takenaka[7] [JC3], Classical Academy Junior High/Candus Muir: “Energy efficiency: The new curve”

Junior Physics, Math & Computer Science

First Place – Junior Physics, Math & Computer Science

- Gryphon Patlin[8] [JE9], Classical Academy Junior High/Dawn Ehresman: “Drop notice”

Second Place – Junior Physics, Math & Computer Science

- Joshua Snyder[7] [JE11], Classical Academy Junior High/Candus Muir: “Ready, aim, fire!”

Third Place – Junior Physics, Math & Computer Science

- Anna Armani[8] [JE12], Classical Conversations/Dayna Armani: “Dribble it”

Fourth Place – Junior Physics, Math & Computer Science

- Briana Hillard[7] [JE7], Imagine Classical Academy/Robert Rosenberg: “Magnetic speaker”

Fifth Place – Junior Physics, Math & Computer Science

- Evelyn Upchurch[8] [JE1], Classical Academy Junior High/Dawn Ehresman: “Makey-ing up stories”

Junior Environmental Science

First Place – Junior Environmental Science

- Ethan Gavin[7] [JF1], Classical Academy Junior High/Candus Muir: “A bug’s death: A study of diatomaceous earth and pesticides”

Second Place – Junior Environmental Science

- Faith Roberts[7] [JF7], Classical Academy Junior High/Candus Muir: “Mold massacre”

Third Place – Junior Environmental Science

- Abby Klapp[8] [JF5], Monument Academy/Karl Brown: “Surviving a drought”

Fourth Place – Junior Environmental Science

- Alex Huerta[8] [JF4], Classical Academy Junior High/Candus Muir: “To aerate or not to aerate: That is the question”

Junior Microbiology, Medicine & Health

First Place – Junior Microbiology, Medicine, & Health Sciences

- Natalia Wright[8] [JG9], Classical Academy Junior High/Candus Muir: “Battling bacteria”

Second Place – Junior Microbiology, Medicine, & Health Sciences

- Emily Ciecalone[7] [JG1], Classical Academy Junior High/Candus Muir: “Sleep tight, but not with blue light”

Third Place – Junior Microbiology, Medicine, & Health Sciences

- Marin Masters[8] [JG6], Classical Academy Junior High/Candus Muir: “Back off bacteria”

Junior Chemistry

First Place – Junior Chemistry

- Pearl Soundron[8] [JH10], Classical Conversations/Dayna Armani: “Ions can’t fly”

Second Place – Junior Chemistry

- Radhika Gupta[7] [JH4], Classical Academy Junior High/Candus Muir: “Analyzing the effectiveness of various whiteboard cleaners”

Third Place – Junior Chemistry

- Isabella Garcia[7] [JH3], Classical Academy Junior High/Candus Muir: “Certified cookie monster approved”

Fourth Place – Junior Chemistry

- Kate Mastroia[7] [JH7], Classical Academy Junior High/Candus Muir: “Straighten or shampoo: It’s all up to you”

8th Grade Engineering

First Place – 8th Grade Engineering

- Allison Rose[8] [8C13], Classical Academy Junior High/Dawn Ehresman: “Maxime lingura”

Second Place – 8th Grade Engineering

- Gabriel Wu[8] [8C1], Classical Academy Junior High/Dawn Ehresman: “Magnificent mounted magnetic bearings”

Third Place – 8th Grade Engineering

- Peter Wilson[8] [8C5], Classical Academy Junior High/Dawn Ehresman: “Postal pods”

Fourth Place – 8th Grade Engineering

- Miles Johnston[8] [8C9], Classical Academy Junior High/Dawn Ehresman: “Don’t let charging up run you down: A study on portable power”

Fifth Place – 8th Grade Engineering

- Henry Foisie[8] [8C2], Classical Academy Junior High/Dawn Ehresman: “Weight for it”

Junior Awards – Seventh Grade

Grade 6 & 7 Engineering

First Place – 7th Grade Engineering

- Luke Nielsen[7] [7C9], Classical Academy Junior High/Candus Muir: “Still sitting?”

Second Place – 7th Grade Engineering

- Nicholas Foster[7] [7C1], Classical Academy Junior High/Candus Muir: “Robotic exoskeleton”

Third Place – 7th Grade Engineering

- Austin Cantor[7] [7C6], Classical Academy Junior High/Candus Muir: “It’s all in the movement”

Fourth Place – 7th Grade Engineering

- Norah Quirk[7] [7C15], Classical Academy Junior High/Candus Muir: “Energy down the drain!”

Fifth Place – 7th Grade Engineering

- Chandler Wilburn[7] [7C11], Classical Academy Junior High/Candus Muir: “What’s the deal about two wheels?”

State Fair

State Fair Invitations

State Fair Invitation

- Nicholas Foster[7] [7C1], Classical Academy Junior High/Candus Muir: “Robotic exoskeleton”
- Austin Cantor[7] [7C6], Classical Academy Junior High/Candus Muir: “It’s all in the movement”
- Luke Nielsen[7] [7C9], Classical Academy Junior High/Candus Muir: “Still sitting?”
- Norah Quirk[7] [7C15], Classical Academy Junior High/Candus Muir: “Energy down the drain!”
- Gabriel Wu[8] [8C1], Classical Academy Junior High/Dawn Ehresman: “Magnificent mounted magnetic bearings”
- Peter Wilson[8] [8C5], Classical Academy Junior High/Dawn Ehresman: “Postal pods”
- Allison Rose[8] [8C13], Classical Academy Junior High/Dawn Ehresman: “Maxime lingua”
- Blake Bowshot[7] [JA2], Classical Academy Junior High/Candus Muir: “Nature’s magnificent medicine: Aloe vera”
- Ava Connelly[6] [JA3], Monument Academy/Kris Goodman: “Warmth without the womb”
- Chance Jurkiewicz[8] [JA5], Classical Academy Junior High/Candus Muir: “To pot or not”
- Clare Wiersma[7] [JA10], Classical Academy Junior High/Candus Muir: “The night time to water?”
- Chloe Bennett[7] [JB1], Classical Academy Junior High/Candus Muir: “Zen testing”
- Kate Kaczmarek[8] [JB5], Classical Academy Junior High/Candus Muir: “The effect of classical music tempo on competitive run times”
- Chloe Haerr[7] [JB9], Classical Academy Junior High/Candus Muir: “Stress test”
- Connor Takenaka[7] [JC3], Classical Academy Junior High/Candus Muir: “Energy efficiency: The new curve”
- Joshua Vu[7] [JC5], Classical Academy Junior High/Candus Muir: “Maximizing efficiency when generating clean energy”
- Zakery Snider[8] [JC7], Classical Academy Junior High/Candus Muir: “Your rubbish my joules”
- Gryphon Patlin[8] [JE9], Classical Academy Junior High/Dawn Ehresman: “Drop notice”
- Joshua Snyder[7] [JE11], Classical Academy Junior High/Candus Muir: “Ready, aim, fire!”
- Anna Armani[8] [JE12], Classical Conversations/Dayna Armani: “Dribble it”
- Ethan Gavin[7] [JF1], Classical Academy Junior High/Candus Muir: “A bug’s death: A study of diatomaceous earth and pesticides”
- Alex Huerta[8] [JF4], Classical Academy Junior High/Candus Muir: “To aerate or not to aerate: That is the question”
- Abby Klapp[8] [JF5], Monument Academy/Karl Brown: “Surviving a drought”
- Faith Roberts[7] [JF7], Classical Academy Junior High/Candus Muir: “Mold massacre”
- Emily Ciecalone[7] [JG1], Classical Academy Junior High/Candus Muir: “Sleep tight, but not with blue light”
- Marin Masters[8] [JG6], Classical Academy Junior High/Candus Muir: “Back off bacteria”
- Natalia Wright[8] [JG9], Classical Academy Junior High/Candus Muir: “Battling bacteria”
- Isabella Garcia[7] [JH3], Classical Academy Junior High/Candus Muir: “Certified cookie monster approved”
- Radhika Gupta[7] [JH4], Classical Academy Junior High/Candus Muir: “Analyzing the effectiveness of various whiteboard cleaners”
- Pearl Soundron[8] [JH10], Classical Conversations/Dayna Armani: “Ions can’t fly”
- Jessie Zimmermann[9] [SA3], The Vanguard School/Cheryl Holling: “The best way to disinfect kitchen sponges through household appliances”
- Tyler Nelson[9] [SA7], The Vanguard School/Cheryl Holling: “The temperature effect on a *Physarum polycephalum*’s diet”
- Emma Palmer[9] [SA8], The Vanguard School/Cheryl Holling: “The effect of caffeine versus energy drinks on *daphnia*’s heart rate”
- Katelynn Salmon[11] [SA10], Palmer Ridge High School/Tom Salmon: “Synthesis of perfluorinatedpyridine-acetylene for click-coupled linear polymerization”

- Paige Carlson[9] [SB2], The Vanguard School/Cheryl Holling: “Does music affect the speed of tasks”
- Ariel Bowden[11] [SB3], Miami Yoder Secondary School/Angela Golding: “iStress: A game of phones”
- Mark Bloomfield[10] [SC1], Coronado High School/David Bloomfield: “Heating up: Using phase change materials vs. a thermal battery”
- Eric Bauman[9] [SC2], Classical Academy High School/Jennifer Smith: “In the absence of air revisited”
- Jenna Salvat[11] [SC11], Coronado High School/Lynne Williams: “Geophone Phase 1: Synthesis and characterization of a ZnO NiO P-N type semiconductor junction”
- Kathryn Kummel[9] & Michelle Kummel[12] [SC12], Palmer High School/Geoffrey Lewis & Reed Carlson: “Using 3D drone-based digital models to investigate the fluvial geomorphology of an actively eroding arroyo”

Special Awards

AFCEA Junior 1st

- Peter Wilson[8] [8C5], Classical Academy Junior High/Dawn Ehresman: “Postal pods”

AFCEA Junior 2nd

- Ganin Rodriguez[8] [8C4], Corpus Christi Catholic School/Maxine Hennessey: “Charge your mobile devices while mobile”

AFCEA Junior 3rd

- Norah Quirk[7] [7C15], Classical Academy Junior High/Candus Muir: “Energy down the drain!”

AFCEA Senior 1st

- Katelynn Salmon[11] [SA10], Palmer Ridge High School/Tom Salmon: “Synthesis of perfluorinatedpyridine-acetylene for click-coupled linear polymerization”

AFCEA Senior 2nd

- Mark Bloomfield[10] [SC1], Coronado High School/David Bloomfield: “Heating up: Using phase change materials vs. a thermal battery”

AFCEA Senior 3rd

- Jenna Salvat[11] [SC11], Coronado High School/Lynne Williams: “Geophone Phase 1: Synthesis and characterization of a ZnO NiO P-N type semiconductor junction”

AFCEA Teacher Junior

- Maxine Hennessey, Corpus Christi

AFCEA Teacher Senior

- Angela Golding, Miami Yoder Secondary School

American Association of University Women, Junior

- Hailey Kressin[7] [7C2], Classical Academy Junior High/Candus Muir: “Sayonara tsunami: Reducing a tunami’s damaging impact”

American Association of University Women, Senior

- Jenna Salvat[11] [SC11], Coronado High School/Lynne Williams: “Geophone Phase 1: Synthesis and characterization of a ZnO NiO P-N type semiconductor junction”

American Meteorological Society

- Abby Klapp[8] [JF5], Monument Academy/Karl Brown: “Surviving a drought”
- Manuel Flores[12] [SC4], Miami Yoder Secondary School/Angela Golding: “Purification of water”

American Psychological Association

- Ariel Bowden[11] [SB3], Miami Yoder Secondary School/Angela Golding: “iStress: A game of phones”

American Statistical Association, Jr.

- Lauren Martins[7] [JG5], Classical Academy Junior High/Candus Muir: “UPF swim shirts: Truth or bare”

American Statistical Association, Sr.

- Mark Bloomfield[10] [SC1], Coronado High School/David Bloomfield: “Heating up: Using phase change materials vs. a thermal battery”

Arizona State University Walton Sustainability

- Mark Bloomfield[10] [SC1], Coronado High School/David Bloomfield: “Heating up: Using phase change materials vs. a thermal battery”
- Eric Bauman[9] [SC2], Classical Academy High School/Jennifer Smith: “In the absence of air revisited”

Association for Women Geoscientists

- Kathryn Kummel[9] & Michelle Kummel[12] [SC12], Palmer High School/Geoffrey Lewis & Reed Carlson: “Using 3D drone-based digital models to investigate the fluvial geomorphology of an actively eroding arroyo”

BSCS Senior Award

- Owen Beute[9] [SA2], The Vanguard School/Kimberly Price: “Coliform bacteria in front range water”

Broadcom MASTERS

- Luke Nielsen[7] [7C9], Classical Academy Junior High/Candus Muir: “Still sitting?”
- Chandler Wilburn[7] [7C11], Classical Academy Junior High/Candus Muir: “What’s the deal about two wheels?”
- Gabriel Wu[8] [8C1], Classical Academy Junior High/Dawn Ehresman: “Magnificent mounted magnetic bearings”
- Peter Wilson[8] [8C5], Classical Academy Junior High/Dawn Ehresman: “Postal pods”
- Allison Rose[8] [8C13], Classical Academy Junior High/Dawn Ehresman: “Maxime lingua”
- Chance Jurkiewicz[8] [JA5], Classical Academy Junior High/Candus Muir: “To pot or not”
- Kate Kaczmarek[8] [JB5], Classical Academy Junior High/Candus Muir: “The effect of classical music tempo on competitive run times”
- Gryphon Patlin[8] [JE9], Classical Academy Junior High/Dawn Ehresman: “Drop notice”
- Ethan Gavin[7] [JF1], Classical Academy Junior High/Candus Muir: “A bug’s death: A study of diatomaceous earth and pesticides”
- Natalia Wright[8] [JG9], Classical Academy Junior High/Candus Muir: “Battling bacteria”

Citizens Project

- Nicholas Foster[7] [7C1], Classical Academy Junior High/Candus Muir: “Robotic exoskeleton”
- Chloe Haerr[7] [JB9], Classical Academy Junior High/Candus Muir: “Stress test”

Colorado Associates in Medical Physics

- Ganin Rodriguez[8] [8C4], Corpus Christi Catholic School/Maxine Hennessey: “Charge your mobile devices while mobile”

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

- Eirik Hedges[8] [JF3], Classical Academy Junior High/Dawn Ehresman: “Erosion explosion”

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

- Kyra Shaner[7] [7C14], Classical Academy Junior High/Candus Muir: “Flood prevention device”

Colorado Chapter of the Soil and Water Conservation Society, Senior 1

- Kathryn Kummel[9] & Michelle Kummel[12] [SC12], Palmer High School/Geoffrey Lewis & Reed Carlson: “Using 3D drone-based digital models to investigate the fluvial geomorphology of an actively eroding arroyo”

Colorado Chapter of the Soil and Water Conservation Society, Senior 2

- Cyan Johnson[9] [SA6], The Vanguard School/Kimberly Price: “Angle effects on plants”

Colorado College Excellence in Community and Social Justice First

- Luke Nielsen[7] [7C9], Classical Academy Junior High/Candus Muir: “Still sitting?”

Colorado College Excellence in Community and Social Justice Second

- Zachary Frederic[7] [JB2], Classical Academy Junior High/Candus Muir: “The effect of pet ownership on children’s compassion”

Colorado College Excellence in Field-Based Research First

- Benjamin Rubin[8] [JG8], Cheyenne Mountain Junior High/David Eick: “The medicine in the venom”

Colorado College Excellence in Field-Based Research Second

- Devin Conn[9] [SA11], The Vanguard School/Cheryl Holling: “Canine behavior in clear versus obscured sightline enclosure”

Colorado College Excellence in Rocky Mountain Regional Research First

- Blake Bowshot[7] [JA2], Classical Academy Junior High/Candus Muir: “Nature’s magnificent medicine: Aloe vera”

Colorado College Excellence in Rocky Mountain Regional Research Second

- Owen Beute[9] [SA2], The Vanguard School/Kimberly Price: “Coliform bacteria in front range water”

Colorado College Excellence in Sustainability and Conservation First

- Manuel Flores[12] [SC4], Miami Yoder Secondary School/Angela Golding: “Purification of water”

Colorado College Excellence in Sustainability and Conservation Second

- Connor Takenaka[7] [JC3], Classical Academy Junior High/Candus Muir: “Energy efficiency: The new curve”

Duvall Family Curiosity Award

- Tim Grammer[6] [7C5], Imagine Classical Academy/Robert Rosenberg: “Cardboard bridges falling down”

Economic Impact Award

- Amir Laaraj[7] [JH6], Imagine Classical Academy/Robert Rosenberg: “Shocking electricity from saltwater”

Estes Industries, Sr.

- John Borders[7] [7C8], Home School/Susie King: “Shapes of stealth”
- Kyle Schoonover[9] [SC9], The Vanguard School/Cheryl Holling: “Potato guns”

Flagline.com Young Scientist, Junior 1st Place

- Ava Connelly[6] [JA3], Monument Academy/Kris Goodman: “Warmth without the womb”
- Delilah Williams[6] [JF11], Monument Academy/Kris Goodman: “Plant vs. metal”

Flagline.com Young Scientist, Junior 2nd Place

- Tim Grammer[6] [7C5], Imagine Classical Academy/Robert Rosenberg: “Cardboard bridges falling down”
- Ethyn Ruiz[6] [7C13], Imagine Classical Academy/Robert Rosenberg: “Hydraulic overload”

Flagline.com Young Scientist, Senior 1st Place

- Jessie Zimmermann[9] [SA3], The Vanguard School/Cheryl Holling: “The best way to disinfect kitchen sponges through household appliances”

Flagline.com Young Scientist, Senior 2nd Place

- Kyle Schoonover[9] [SC9], The Vanguard School/Cheryl Holling: “Potato guns”

Georgia & Charlie Matteson Award, Junior

- Eirik Hedges[8] [JF3], Classical Academy Junior High/Dawn Ehresman: “Erosion explosion”

Georgia & Charlie Matteson Award, Senior

- Kathryn Kummel[9] & Michelle Kummel[12] [SC12], Palmer High School/Geoffrey Lewis & Reed Carlson: “Using 3D drone-based digital models to investigate the fluvial geomorphology of an actively eroding arroyo”

Huntington Learning Center, Junior

- Nicholas Foster[7] [7C1], Classical Academy Junior High/Candus Muir: “Robotic exoskeleton”

Huntington Learning Center, Senior

- Mark Bloomfield[10] [SC1], Coronado High School/David Bloomfield: “Heating up: Using phase change materials vs. a thermal battery”

Intel Corp. Excellence in Computer Science

- Kathryn Kummel[9] & Michelle Kummel[12] [SC12], Palmer High School/Geoffrey Lewis & Reed Carlson: “Using 3D drone-based digital models to investigate the fluvial geomorphology of an actively eroding arroyo”

Mu Alpha Theta

- Mark Bloomfield[10] [SC1], Coronado High School/David Bloomfield: “Heating up: Using phase change materials vs. a thermal battery”

NASA EARTH System Science Award

- Kathryn Kummel[9] & Michelle Kummel[12] [SC12], Palmer High School/Geoffrey Lewis & Reed Carlson: “Using 3D drone-based digital models to investigate the fluvial geomorphology of an actively eroding arroyo”

NOAA Award

- Hailey Kressin[7] [7C2], Classical Academy Junior High/Candus Muir: “Sayonara tsunami: Reducing a tsunami’s damaging impact”

National Defense Industrial Association, 6th First

- Ethyn Ruiz[6] [7C13], Imagine Classical Academy/Robert Rosenberg: “Hydraulic overload”

National Defense Industrial Association, 6th Second

- Tim Grammer[6] [7C5], Imagine Classical Academy/Robert Rosenberg: “Cardboard bridges falling down”

National Defense Industrial Association, 7th First

- Nicholas Foster[7] [7C1], Classical Academy Junior High/Candus Muir: “Robotic exoskeleton”

National Defense Industrial Association, 7th Second

- Joshua Snyder[7] [JE11], Classical Academy Junior High/Candus Muir: “Ready, aim, fire!”

National Defense Industrial Association, 8th First

- Gabriel Wu[8] [8C1], Classical Academy Junior High/Dawn Ehresman: “Magnificent mounted magnetic bearings”

National Defense Industrial Association, 8th Second

- Jordan Kitch[8] [JB6], Classical Academy Junior High/Candus Muir: “Cell phone use: The effect on cognitive recall”

Northrop Grumman Excellence in Computer Science

- Peter Wilson[8] [8C5], Classical Academy Junior High/Dawn Ehresman: “Postal pods”

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

- Nicholas Foster[7] [7C1], Classical Academy Junior High/Candus Muir: “Robotic exoskeleton”
- Austin Cantor[7] [7C6], Classical Academy Junior High/Candus Muir: “It’s all in the movement”

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

- Mark Bloomfield[10] [SC1], Coronado High School/David Bloomfield: “Heating up: Using phase change materials vs. a thermal battery”
- Jenna Salvat[11] [SC11], Coronado High School/Lynne Williams: “Geophone Phase 1: Synthesis and characterization of a ZnO NiO P-N type semiconductor junction”

- Kathryn Kummel[9] & Michelle Kummel[12] [SC12], Palmer High School/Geoffrey Lewis & Reed Carlson: “Using 3D drone-based digital models to investigate the fluvial geomorphology of an actively eroding arroyo”

Old Town Bike Shop

- Norah Quirk[7] [7C15], Classical Academy Junior High/Candus Muir: “Energy down the drain!”
- Delilah Williams[6] [JF11], Monument Academy/Kris Goodman: “Plant vs. metal”
- Simon Schultz[7] [JF12], Classical Academy Junior High/Candus Muir: “Sunny side up”

Pikes Peak Justice and Peace Commission

- Abby Klapp[8] [JF5], Monument Academy/Karl Brown: “Surviving a drought”
- Kathryn Kummel[9] & Michelle Kummel[12] [SC12], Palmer High School/Geoffrey Lewis & Reed Carlson: “Using 3D drone-based digital models to investigate the fluvial geomorphology of an actively eroding arroyo”

Ricoh Americas

- Joshua Vu[7] [JC5], Classical Academy Junior High/Candus Muir: “Maximizing efficiency when generating clean energy”

Society for In-Vitro Biology

- Jessie Zimmermann[9] [SA3], The Vanguard School/Cheryl Holling: “The best way to disinfect kitchen sponges through household appliances”

Society of Women Engineers Jr. Division

- Allison Rose[8] [8C13], Classical Academy Junior High/Dawn Ehresman: “Maxime lingura”

Society of Women Engineers Sr. Division

- Jenna Salvat[11] [SC11], Coronado High School/Lynne Williams: “Geophone Phase 1: Synthesis and characterization of a ZnO NiO P-N type semiconductor junction”

Stockholm Water Prize

- Owen Beute[9] [SA2], The Vanguard School/Kimberly Price: “Coliform bacteria in front range water”
- Manuel Flores[12] [SC4], Miami Yoder Secondary School/Angela Golding: “Purification of water”
- Kathryn Kummel[9] & Michelle Kummel[12] [SC12], Palmer High School/Geoffrey Lewis & Reed Carlson: “Using 3D drone-based digital models to investigate the fluvial geomorphology of an actively eroding arroyo”

U. S. Air Force

- John Borders[7] [7C8], Home School/Susie King: “Shapes of stealth”
- Gabriel Wu[8] [8C1], Classical Academy Junior High/Dawn Ehresman: “Magnificent mounted magnetic bearings”
- Katelynn Salmon[11] [SA10], Palmer Ridge High School/Tom Salmon: “Synthesis of perfluorinatedpyridine-acetylene for click-coupled linear polymerization”
- Jenna Salvat[11] [SC11], Coronado High School/Lynne Williams: “Geophone Phase 1: Synthesis and characterization of a ZnO NiO P-N type semiconductor junction”

U. S. Metric Association Certificate of Achievement

- Mark Bloomfield[10] [SC1], Coronado High School/David Bloomfield: “Heating up: Using phase change materials vs. a thermal battery”

U. S. Navy Science Award, Jr.

- Hailey Kressin[7] [7C2], Classical Academy Junior High/Candus Muir: “Sayonara tsunami: Reducing a tsunami’s damaging impact”
- Luke Nielsen[7] [7C9], Classical Academy Junior High/Candus Muir: “Still sitting?”

U. S. Navy Science Award, Sr.

- Will Stone[9] [SA12], The Vanguard School/Cheryl Holling: “Effects of cleaning supplies on *staphococcus epidermis*”
- Jenna Salvat[11] [SC11], Coronado High School/Lynne Williams: “Geophone Phase 1: Synthesis and characterization of a ZnO NiO P-N type semiconductor junction”

UCCS Dept. of Chemistry & Biochemistry

- Jenna Salvat[11] [SC11], Coronado High School/Lynne Williams: “Geophone Phase 1: Synthesis and characterization of a ZnO NiO P-N type semiconductor junction”

Yale Science & Engineering Association

- Katelynn Salmon[11] [SA10], Palmer Ridge High School/Tom Salmon: “Synthesis of perfluorinatedpyridine-acetylene for click-coupled linear polymerization”