Pikes Peak Regional Science Fair 2023 Final Results

Grand Awards

Senior Division Grand Award

• Natalie Muro[9] [SA7], Palmer High School/Nathaniel Lohmann: ‘‘Buoy wave energy converters capture of ocean wave energy’’

Senior Division Grand Award Runner Up

• Vanya Lavu[10] [SA1], The Classical Academy/Alex Chang: ‘‘Am I Effective?’’

• Shrey Rohilla[10] [SC8], The Classical Academy/Jennifer Smith: ‘‘Electrify your step – The next stride: Converting foot traffic into renewable energy using piezoelectric transducers’’

International Science Fair Invitation

• Vanya Lavu[10] [SA1], The Classical Academy/Alex Chang: ‘‘Am I Effective?’’

• Natalie Muro[9] [SA7], Palmer High School/Nathaniel Lohmann: ‘‘Buoy wave energy converters capture of ocean wave energy’’

• Shrey Rohilla[10] [SC8], The Classical Academy/Jennifer Smith: ‘‘Electrify your step – The next stride: Converting foot traffic into renewable energy using piezoelectric transducers’’

Junior Division Grand Award

• Aidan McGuire[7] [JD2], St. Peter Catholic School/Chelsea Kilday: ‘‘How does background clutter affect image recognition’’

Junior Division Grand Award Runner Up

• Helen Wan[8] [JD3], Challenger Middle School/Annie Lynn: ‘‘Measuring the particulate matter in air pollution with Raspberry Pi’’

Senior Division People’s Choice

• Geo Raguraman[11] [SC1], Discovery Canyon High School/Beaulah Aloysius: ‘‘Regeneratus: An adaptive, regenerative protection suit for all law enforcement and armed forces personnel’’

Junior Division People’s Choice

• Arianna Montoya[7] & Lucy Waters[7] [JA5], Eagleview Middle School/Elizabeth Busler: ‘‘Science you can sink your teeth into’’

Category Awards

Sr. Life Science, Earth & Environmental Science

First Place – Sr. Life Science, Earth & Environmental Science

• Natalie Muro[9] [SA7], Palmer High School/Nathaniel Lohmann: ‘‘Buoy wave energy converters capture of ocean wave energy’’

Second Place – Sr. Life Science, Earth & Environmental Science

• Vanya Lavu[10] [SA1], The Classical Academy/Alex Chang: ‘‘Am I Effective?’’

Third Place – Sr. Life Science, Earth & Environmental Science

• Cameron Wolkow[9] [SA4], Palmer High School/Tom Wolkow: ‘‘Isolation of fungi capable of antibiotic bioremediation’’

Sr. Physical Science, Engineering, Math & Computer Science

First Place – Sr. Physical Science, Engineering, Math & Computer Science

• Shrey Rohilla[10] [SC8], The Classical Academy/Jennifer Smith: ‘‘Electrify your step – The next stride: Converting foot traffic into renewable energy using piezoelectric transducers’’

Second Place – Sr. Physical Science, Engineering, Math & Computer Science

• Geo Raguraman[11] [SC1], Discovery Canyon High School/Beaulah Aloysius: ‘‘Regeneratus: An adaptive, regenerative protection suit for all law enforcement and armed forces personnel’’

Third Place – Sr. Physical Science, Engineering, Math & Computer Science

• Natalie Tinoco[10] [SC3], Miami Yoder High School/Angela Grimes: ‘‘Cleaning products and their effects on household surfaces’’

Jr. Life Science

First Place – Jr. Life Science

• Vivian Wolkow[6] [JA1], North Middle School/Tom Wolkow: ‘‘Does the tail remember what the head saw?’’

Second Place – Jr. Life Science

• Samantha Goetz[6] [JA7], St. Peter Catholic School/Chelsea Kilday: ‘‘How childproof are medicine bottles?’’

Third Place – Jr. Life Science

• Cristal Hernandez[8] [JA3], Sabin Middle School/Jeannie Meredith: ‘‘Pig skin’’

Jr. Earth & Environmental Science

First Place – Jr. Earth & Environmental Science

• Ayush Vispute[8] [JB5], Mountain Ridge Middle School/Morgan Keith: ‘‘Investigating alternate treatments of acid rain’’

Second Place – Jr. Earth & Environmental Science

• Angelina Wan[6] [JB8], Challenger Middle School/Selina Webb: ‘‘Predicting Colorado’s future precipitation and its effects on traffic accidents’’

Third Place – Jr. Earth & Environmental Science

• Advait Jadhav[6] [JB10], Chinook Trail Middle School/Sujit Jadhav: ‘‘Sweat it out, the green way!’’

Fourth Place – Jr. Earth & Environmental Science

• Nadia Anderson[6] & Merrak Jagers[6] [JB2], Evangelical Christian Academy/Libby Pinson: ‘‘How does exposure to harsh weather in a plant’s early development affect the resistance of a plant to harsh weather later in life?’’

Fifth Place – Jr. Earth & Environmental Science

• Tyler Wineland[7] [JB7], Schullandheim/Tami Kruse: ‘‘An exploration of the most effective solvents for extraction of raw biofuel from algae’’

Jr. Physical Science

First Place – Jr. Physical Science

• Cameron Carlile[6] [JC1], Lewis Palmer Elementary School/Neva Nardone: ‘‘Observation of sub-atomic particles and their interactions with a self-manufactured cloud chamber’’

Second Place – Jr. Physical Science

• Ian McClure[6] [JC3], Evangelical Christian Academy/Libby Pinson: ‘‘How do the size and shape of a rocket’s fins affect the height it flies?’’

Third Place – Jr. Physical Science

• Delilah Epps[8] [JC4], Sabin Middle School/Jeannie Meredith: ‘‘How can different papers hold up different masses?’’

Jr. Engineering, Math & Computer Science

First Place – Jr. Engineering, Math & Computer Science

• Aidan McGuire[7] [JD2], St. Peter Catholic School/Chelsea Kilday: ‘‘How does background clutter affect image recognition’’

Second Place – Jr. Engineering, Math & Computer Science

• Helen Wan[8] [JD3], Challenger Middle School/Annie Lynn: ‘‘Measuring the particulate matter in air pollution with Raspberry Pi’’

Third Place – Jr. Engineering, Math & Computer Science

• Lucca Tumbush[8] & Seth Wilson[8] [JD4], Eagleview Middle School/Elizabeth Busler: ‘‘Friend/foe light’’

State Fair

State Fair Invitations

State Fair Invitation

- Cameron Carlile[6] [JC1], Lewis Palmer Elementary School/Neva Nardone: ‘‘Observation of sub-atomic particles and their interactions with a self-manufactured cloud chamber’’
- Samantha Goetz[6] [JA7], St. Peter Catholic School/Chelsea Kilday: ‘‘How childproof are medicine bottles?’’
- Advait Jadhav[6] [JB10], Chinook Trail Middle School/Sujit Jadhav: ‘‘Sweat it out, the green way!’’
- David Kent[8] [JD1], Eagleview Middle School/David ‘‘Chip’’ Kent: ‘‘Super speaker: Using digital signal processing to improve low-quality speakers’’
- Naomi Kruse[9] [SA6], Schullandheim/Tami Kruse: ‘‘Finding ferns: Defining the microclimate that enables gametophyte growth in the Santa Monica mountains’’
- Vanya Lavu[10] [SA1], The Classical Academy/Alex Chang: ‘‘Am I Effective?’’
- Ian McClure[6] [JC3], Evangelical Christian Academy/Libby Pinson: ‘‘How do the size and shape of a rocket’s fins affect the height it flies?’’
- Aidan McGuire[7] [JD2], St. Peter Catholic School/Chelsea Kilday: ‘‘How does background clutter affect image recognition’’
- Natalie Muro[9] [SA7], Palmer High School/Nathaniel Lohmann: ‘‘Buoy wave energy converters capture of ocean wave energy’’
- Geo Raguraman[11] [SC1], Discovery Canyon High School/Beaulah Aloysius: ‘‘Regeneratus: An adaptive, regenerative protection suit for all law enforcement and armed forces personnel’’
- Shrey Rohilla[10] [SC8], The Classical Academy/Jennifer Smith: ‘‘Electrify your step – The next stride: Converting foot traffic into renewable energy using piezoelectric transducers’’
- Natalie Tinoco[10] [SC3], Miami Yoder High School/Angela Grimes: ‘‘Cleaning products and their effects on household surfaces’’
- Lucca Tumbush[8] & Seth Wilson[8] [JD4], Eagleview Middle School/Elizabeth Busler: ‘‘Friend/foe light’’
- Ayush Vispute[8] [JB5], Mountain Ridge Middle School/Morgan Keith: ‘‘Investigating alternate treatments of acid rain’’
- Angelina Wan[6] [JB8], Challenger Middle School/Selina Webb: ‘‘Predicting Colorado’s future precipitation and its effects on traffic accidents’’
- Helen Wan[8] [JD3], Challenger Middle School/Annie Lynn: ‘‘Measuring the particulate matter in air pollution with Raspberry Pi’’
- Cameron Wolkow[9] [SA4], Palmer High School/Tom Wolkow: ‘‘Isolation of fungi capable of antibiotic bioremediation’’
- Vivian Wolkow[6] [JA1], North Middle School/Tom Wolkow: ‘‘Does the tail remember what the head saw?’’

Special Awards

AFCEA Junior 1st

• Aidan McGuire[7] [JD2], St. Peter Catholic School/Chelsea Kilday: ‘‘How does background clutter affect image recognition’’

AFCEA Senior 1st

• Geo Raguraman[11] [SC1], Discovery Canyon High School/Beaulah Aloysius: ‘‘Regeneratus: An adaptive, regenerative protection suit for all law enforcement and armed forces personnel’’

AFCEA Teacher

• Angela Grimes, Miami Yoder High School

American Association of University Women, Junior

• Annika Hunyadi[6] [JD8], Eagleview Middle School/Jenine Winslow: ‘‘Hydro powered facility’’

American Association of University Women, Senior

• Natalie Muro[9] [SA7], Palmer High School/Nathaniel Lohmann: ‘‘Buoy wave energy converters capture of ocean wave energy’’

American Institute of Aeronautics and Astronautics – Rocky Mountain Section

• Zachary Canady[7] [JC2], Eagleview Middle School/Debbie Saccoliti: ‘‘Reducing drag: Which wing design is best?’’

• Natalie Muro[9] [SA7], Palmer High School/Nathaniel Lohmann: ‘‘Buoy wave energy converters capture of ocean wave energy’’

American Psychological Association

• Vivian Wolkow[6] [JA1], North Middle School/Tom Wolkow: ‘‘Does the tail remember what the head saw?’’

American Statistical Association, Colorado-Wyoming Chapter Jr.

• Angelina Wan[6] [JB8], Challenger Middle School/Selina Webb: ‘‘Predicting Colorado’s future precipitation and its effects on traffic accidents’’

American Statistical Association, Colorado-Wyoming Chapter Sr.

• Shrey Rohilla[10] [SC8], The Classical Academy/Jennifer Smith: ‘‘Electrify your step – The next stride: Converting foot traffic into renewable energy using piezoelectric transducers’’

Ascension Engineering Group Junior First

• David Kent[8] [JD1], Eagleview Middle School/David ‘‘Chip’’ Kent: ‘‘Super speaker: Using digital signal processing to improve low-quality speakers’’

Ascension Engineering Group Junior Second

• Aidan McGuire[7] [JD2], St. Peter Catholic School/Chelsea Kilday: ‘‘How does background clutter affect image recognition’’

Ascension Engineering Group Senior First

• Shrey Rohilla[10] [SC8], The Classical Academy/Jennifer Smith: ‘‘Electrify your step – The next stride: Converting foot traffic into renewable energy using piezoelectric transducers’’

Ascension Engineering Group Senior Second

• Geo Raguraman[11] [SC1], Discovery Canyon High School/Beaulah Aloysius: ‘‘Regeneratus: An adaptive, regenerative protection suit for all law enforcement and armed forces personnel’’

Association for Women Geoscientists

• Naomi Kruse[9] [SA6], Schullandheim/Tami Kruse: ‘‘Finding ferns: Defining the microclimate that enables gametophyte growth in the Santa Monica mountains’’

BSCS Senior Award

• Vanya Lavu[10] [SA1], The Classical Academy/Alex Chang: ‘‘Am I Effective?’’

Broadcom Award: Coding with Commitment

• David Kent[8] [JD1], Eagleview Middle School/David ‘‘Chip’’ Kent: ‘‘Super speaker: Using digital signal processing to improve low-quality speakers’’

COOL Science Junior Winner

• Helen Wan[8] [JD3], Challenger Middle School/Annie Lynn: ‘‘Measuring the particulate matter in air pollution with Raspberry Pi’’

COOL Science Senior Winner

• Addyson Wright[10] [SC4], Miami Yoder High School/Angela Grimes: ‘‘Stubborn stains – Go away!’’

Citizens Project

• Cameron Wolkow[9] [SA4], Palmer High School/Tom Wolkow: ‘‘Isolation of fungi capable of antibiotic bioremediation’’

Colorado Associates in Medical Physics

• Cameron Carlile[6] [JC1], Lewis Palmer Elementary School/Neva Nardone: ‘‘Observation of sub-atomic particles and their interactions with a self-manufactured cloud chamber’’

• Aidan McGuire[7] [JD2], St. Peter Catholic School/Chelsea Kilday: ‘‘How does background clutter affect image recognition’’

Colorado Association of Science Teachers

• Elizabeth Busler, Eagleview Middle School
• Alex Chang, The Classical Academy
• Christopher Everhart, Edison Secondary School
• Angela Grimes, Miami Yoder High School
• Morgan Keith, Mountain Ridge Middle School
• Chelsea Kilday, St. Peter Catholic School
• Tami Kruse, Schullandheim

• Nathaniel Lohmann, Palmer High School
• Annie Lynn, Challenger Middle School
• Jeannie Meredith, Sabin Middle School
• Neva Nardone, Lewis Palmer Elementary School
• Libby Pinson, Evangelical Christian Academy
• Debbie Saccoliti, Eagleview Middle School
• Jennifer Smith, The Classical Academy
• Selina Webb, Challenger Middle School
• Jenine Winslow, Eagleview Middle School
• Tom Wolkow, Palmer HS/North MS

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

• Angelina Wan[6] [JB8], Challenger Middle School/Selina Webb: ''Predicting Colorado's future precipitation and its effects on traffic accidents''

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

• Ayush Vispute[8] [JB5], Mountain Ridge Middle School/Morgan Keith: ''Investigating alternate treatments of acid rain''

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

• Natalie Muro[9] [SA7], Palmer High School/Nathaniel Lohmann: ''Buoy wave energy converters capture of ocean wave energy''

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

• Trinity-rose Rivera[10] [SA3], Miami Yoder High School/Angela Grimes: ''Effects of grazing on prairie biomass''

Colorado College Excellence in Community and Social Justice First

• Samantha Goetz[6] [JA7], St. Peter Catholic School/Chelsea Kilday: ''How childproof are medicine bottles?''

Colorado College Excellence in Community and Social Justice Second

• Cameron Wolkow[9] [SA4], Palmer High School/Tom Wolkow: ''Isolation of fungi capable of antibiotic bioremediation''

Colorado College Excellence in Field-Based Research First

• Trinity-rose Rivera[10] [SA3], Miami Yoder High School/Angela Grimes: ''Effects of grazing on prairie biomass''

Colorado College Excellence in Field-Based Research Second

• Audrey Olson[6] [JB1], Eagleview Middle School/Jenine Winslow: ‘‘How wolves benefited Yellowstone and how they could benefit Colorado and how it would change populations’’

Colorado College Excellence in Rocky Mountain Regional Research First

• Trinity-rose Rivera[10] [SA3], Miami Yoder High School/Angela Grimes: ‘‘Effects of grazing on prairie biomass’’

Colorado College Excellence in Rocky Mountain Regional Research Second

• Audrey Olson[6] [JB1], Eagleview Middle School/Jenine Winslow: ‘‘How wolves benefited Yellowstone and how they could benefit Colorado and how it would change populations’’

Colorado College Excellence in Sustainability and Conservation First

• Vanya Lavu[10] [SA1], The Classical Academy/Alex Chang: ‘‘Am I Effective?’’

Colorado College Excellence in Sustainability and Conservation Second

• Angelina Wan[6] [JB8], Challenger Middle School/Selina Webb: ‘‘Predicting Colorado’s future precipitation and its effects on traffic accidents’’

Crosson Family Award Junior 1st Place

• Alaena Shipp[6] [JC6], Eagleview Middle School/Jenine Winslow: ‘‘The science behind burning steel wool’’

Crosson Family Award Junior 2nd Place

• Kimzie Emerling[6] [JA6], Edison Secondary School/Christopher Everhart: ‘‘What kills algae’’

Crosson Family Award Senior 1st Place

• Caleb Bernhart[10] [SC2], Miami Yoder High School/Angela Grimes: ‘‘Wind energy adapted for boat propulsion’’

Crosson Family Award Senior 2nd Place

• Natalie Tinoco[10] [SC3], Miami Yoder High School/Angela Grimes: ‘‘Cleaning products and their effects on household surfaces’’

Department of Defense STEM Leadership Prize

• Annika Hunyadi[6] [JD8], Eagleview Middle School/Jenine Winslow: ‘‘Hydro powered facility’’

EPA

• Brynn Allen[6] [JB4], Eagleview Middle School/Jenine Winslow: ‘‘A salty experiment’’

• Nadia Anderson[6] & Merrak Jagers[6] [JB2], Evangelical Christian Academy/Libby Pinson: ‘‘How does exposure to harsh weather in a plant’s early development affect the resistance of a plant to harsh weather later in life?’’

- Cooper Ballard[6] & Gabe Ross[8] [JD9], Edison Secondary School/Christopher Everhart: ‘‘Science bites’’
- Caleb Bernhart[10] [SC2], Miami Yoder High School/Angela Grimes: ‘‘Wind energy adapted for boat propulsion’’
- Kimzie Emerling[6] [JA6], Edison Secondary School/Christopher Everhart: ‘‘What kills algae’’
- Cristal Hernandez[8] [JA3], Sabin Middle School/Jeannie Meredith: ‘‘Pig skin’’
- Annika Hunyadi[6] [JD8], Eagleview Middle School/Jenine Winslow: ‘‘Hydro powered facility’’
- Advait Jadhav[6] [JB10], Chinook Trail Middle School/Sujit Jadhav: ‘‘Sweat it out, the green way!’’
- Naomi Kruse[9] [SA6], Schullandheim/Tami Kruse: ‘‘Finding ferns: Defining the microclimate that enables gametophyte growth in the Santa Monica mountains’’
- Laney LeBLanc[6] [JC5], Eagleview Middle School/Jenine Winslow: ‘‘Why do we use concrete and asphalt pavement?’’
- Kylie McKnight[10] [SA2], Miami Yoder High School/Angela Grimes: ‘‘Effects of agriculture and farming on rural air quality’’
- Natalie Muro[9] [SA7], Palmer High School/Nathaniel Lohmann: ‘‘Buoy wave energy converters capture of ocean wave energy’’
- Audrey Olson[6] [JB1], Eagleview Middle School/Jenine Winslow: ‘‘How wolves benefited Yellowstone and how they could benefit Colorado and how it would change populations’’
- Alan Perez[8] [JB3], Sabin Middle School/Jeannie Meredith: ‘‘Marine microorganisms and the effect of plastics’’
- Trinity-rose Rivera[10] [SA3], Miami Yoder High School/Angela Grimes: ‘‘Effects of grazing on prairie biomass’’
- Shrey Rohilla[10] [SC8], The Classical Academy/Jennifer Smith: ‘‘Electrify your step – The next stride: Converting foot traffic into renewable energy using piezoelectric transducers’’
- Sunia Scheper[6] [JB9], Eagleview Middle School/Steve Scheper: ‘‘The dirt about the Earth’’
- Ayush Vispute[8] [JB5], Mountain Ridge Middle School/Morgan Keith: ‘‘Investigating alternate treatments of acid rain’’
- Angelina Wan[6] [JB8], Challenger Middle School/Selina Webb: ‘‘Predicting Colorado’s future precipitation and its effects on traffic accidents’’
- Helen Wan[8] [JD3], Challenger Middle School/Annie Lynn: ‘‘Measuring the particulate matter in air pollution with Raspberry Pi’’
- Tyler Wineland[7] [JB7], Schullandheim/Tami Kruse: ‘‘An exploration of the most effective solvents for extraction of raw biofuel from algae’’
- Cameron Wolkow[9] [SA4], Palmer High School/Tom Wolkow: ‘‘Isolation of fungi capable of antibiotic bioremediation’’
- Vivian Wolkow[6] [JA1], North Middle School/Tom Wolkow: ‘‘Does the tail remember what the head saw?’’

El Paso County Conservation District, Junior

• Nadia Anderson[6] & Merrak Jagers[6] [JB2], Evangelical Christian Academy/Libby Pinson: ‘‘How does exposure to harsh weather in a plant’s early development affect the resistance of a plant to harsh weather later in life?’’

• Audrey Olson[6] [JB1], Eagleview Middle School/Jenine Winslow: ‘‘How wolves benefited Yellowstone and how they could benefit Colorado and how it would change populations’’

El Paso County Conservation District, Senior

• Kylie McKnight[10] [SA2], Miami Yoder High School/Angela Grimes: ‘‘Effects of agriculture and farming on rural air quality’’

• Trinity-rose Rivera[10] [SA3], Miami Yoder High School/Angela Grimes: ‘‘Effects of grazing on prairie biomass’’

Flagline.com Young Scientist, Junior 1st Place

• Samantha Goetz[6] [JA7], St. Peter Catholic School/Chelsea Kilday: ‘‘How childproof are medicine bottles?’’

Flagline.com Young Scientist, Junior 2nd Place

• Ayush Vispute[8] [JB5], Mountain Ridge Middle School/Morgan Keith: ‘‘Investigating alternate treatments of acid rain’’

Flagline.com Young Scientist, Senior 1st Place

• Naomi Kruse[9] [SA6], Schullandheim/Tami Kruse: ‘‘Finding ferns: Defining the microclimate that enables gametophyte growth in the Santa Monica mountains’’

Flagline.com Young Scientist, Senior 2nd Place

• Vanya Lavu[10] [SA1], The Classical Academy/Alex Chang: ‘‘Am I Effective?’’

Lemelson Early Inventor Prize

• Lucca Tumbush[8] & Seth Wilson[8] [JD4], Eagleview Middle School/Elizabeth Busler: ‘‘Friend/foe light’’

Georgia & Charlie Matteson Award, Junior

• Ayush Vispute[8] [JB5], Mountain Ridge Middle School/Morgan Keith: ‘‘Investigating alternate treatments of acid rain’’

Georgia & Charlie Matteson Award, Senior

• Kylie McKnight[10] [SA2], Miami Yoder High School/Angela Grimes: ‘‘Effects of agriculture and farming on rural air quality’’

NASA EARTH System Science Award

• Ayush Vispute[8] [JB5], Mountain Ridge Middle School/Morgan Keith: ‘‘Investigating alternate treatments of acid rain’’

National Defense Industrial Association, 6th Exceptional

• Cameron Carlile[6] [JC1], Lewis Palmer Elementary School/Neva Nardone: ‘‘Observation of sub-atomic particles and their interactions with a self-manufactured cloud chamber’’

• Ian McClure[6] [JC3], Evangelical Christian Academy/Libby Pinson: ‘‘How do the size and shape of a rocket’s fins affect the height it flies?’’

National Defense Industrial Association, 6th Outstanding

• Advait Jadhav[6] [JB10], Chinook Trail Middle School/Sujit Jadhav: ‘‘Sweat it out, the green way!’’

National Defense Industrial Association, 7th Exceptional

• Zachary Canady[7] [JC2], Eagleview Middle School/Debbie Saccoliti: ‘‘Reducing drag: Which wing design is best?’’

National Defense Industrial Association, 7th Outstanding

• Aidan McGuire[7] [JD2], St. Peter Catholic School/Chelsea Kilday: ‘‘How does background clutter affect image recognition’’

National Defense Industrial Association, 8th Outstanding

• Helen Wan[8] [JD3], Challenger Middle School/Annie Lynn: ‘‘Measuring the particulate matter in air pollution with Raspberry Pi’’

National Geographic Award

• Trinity-rose Rivera[10] [SA3], Miami Yoder High School/Angela Grimes: ‘‘Effects of grazing on prairie biomass’’

National Oceanic and Atmospheric Administration

• Natalie Muro[9] [SA7], Palmer High School/Nathaniel Lohmann: ‘‘Buoy wave energy converters capture of ocean wave energy’’

Northrop Grumman Excellence in Computer Science (Sr. Div.)

• Shrey Rohilla[10] [SC8], The Classical Academy/Jennifer Smith: ‘‘Electrify your step – The next stride: Converting foot traffic into renewable energy using piezoelectric transducers’’

Northrop Grumman Excellence in Science & Engineering (6th Grade)

• Advait Jadhav[6] [JB10], Chinook Trail Middle School/Sujit Jadhav: ‘‘Sweat it out, the green way!’’

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

• Aidan McGuire[7] [JD2], St. Peter Catholic School/Chelsea Kilday: ‘‘How does background clutter affect image recognition’’

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

• Helen Wan[8] [JD3], Challenger Middle School/Annie Lynn: ‘‘Measuring the particulate matter in air pollution with Raspberry Pi’’

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

• Cesar Beltran[11] [SC7], Miami Yoder Secondary School/Angela Grimes: ‘‘Effect of temperature on viscosity of motor oil’’

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

• Geo Raguraman[11] [SC1], Discovery Canyon High School/Beaulah Aloysius: ‘‘Regeneratus: An adaptive, regenerative protection suit for all law enforcement and armed forces personnel’’

Old Town Bike Shop

• Natalie Muro[9] [SA7], Palmer High School/Nathaniel Lohmann: ‘‘Buoy wave energy converters capture of ocean wave energy’’

• Trinity-rose Rivera[10] [SA3], Miami Yoder High School/Angela Grimes: ‘‘Effects of grazing on prairie biomass’’

• Cameron Wolkow[9] [SA4], Palmer High School/Tom Wolkow: ‘‘Isolation of fungi capable of antibiotic bioremediation’’

Pikes Peak Justice and Peace Commission

• Natalie Muro[9] [SA7], Palmer High School/Nathaniel Lohmann: ‘‘Buoy wave energy converters capture of ocean wave energy’’

Planet Walk Colorado Springs

• Annika Hunyadi[6] [JD8], Eagleview Middle School/Jenine Winslow: ‘‘Hydro powered facility’’

Regeneron Biomedical Science Award

• Cameron Wolkow[9] [SA4], Palmer High School/Tom Wolkow: ‘‘Isolation of fungi capable of antibiotic bioremediation’’

Ricoh Americas

• Natalie Muro[9] [SA7], Palmer High School/Nathaniel Lohmann: ‘‘Buoy wave energy converters capture of ocean wave energy’’

Society for In-Vitro Biology

• Cameron Wolkow[9] [SA4], Palmer High School/Tom Wolkow: ‘‘Isolation of fungi capable of antibiotic bioremediation’’

Society of Women Engineers Jr. Division

• Helen Wan[8] [JD3], Challenger Middle School/Annie Lynn: ‘‘Measuring the particulate matter in air pollution with Raspberry Pi’’

Society of Women Engineers Sr. Division

• Natalie Muro[9] [SA7], Palmer High School/Nathaniel Lohmann: ‘‘Buoy wave energy converters capture of ocean wave energy’’

Space Foundation

• Natalie Muro[9] [SA7], Palmer High School/Nathaniel Lohmann: ‘‘Buoy wave energy converters capture of ocean wave energy’’

Thermo Fisher Jr. Innovator

• Aidan McGuire[7] [JD2], St. Peter Catholic School/Chelsea Kilday: ‘‘How does background clutter affect image recognition’’

- Ayush Vispute[8] [JB5], Mountain Ridge Middle School/Morgan Keith: ‘‘Investigating alternate treatments of acid rain’’
- Helen Wan[8] [JD3], Challenger Middle School/Annie Lynn: ‘‘Measuring the particulate matter in air pollution with Raspberry Pi’’

U. S. Agency for International Development

- Nadia Anderson[6] & Merrak Jagers[6] [JB2], Evangelical Christian Academy/Libby Pinson: ‘‘How does exposure to harsh weather in a plant’s early development affect the resistance of a plant to harsh weather later in life?’’

U. S. Air Force

- Zachary Canady[7] [JC2], Eagleview Middle School/Debbie Saccoliti: ‘‘Reducing drag: Which wing design is best?’’
- Geo Raguraman[11] [SC1], Discovery Canyon High School/Beaulah Aloysius: ‘‘Regeneratus: An adaptive, regenerative protection suit for all law enforcement and armed forces personnel’’
- Shrey Rohilla[10] [SC8], The Classical Academy/Jennifer Smith: ‘‘Electrify your step – The next stride: Converting foot traffic into renewable energy using piezoelectric transducers’’
- Cameron Wolkow[9] [SA4], Palmer High School/Tom Wolkow: ‘‘Isolation of fungi capable of antibiotic bioremediation’’

U. S. Metric Association Certificate of Achievement

- Vionica Lin[8] [JA2], Sabin Middle School/Jeannie Meredith: ‘‘Orchestra vs. band – Who rocks the most?’’

U. S. Navy Science Award, Jr.

- Cameron Carlile[6] [JC1], Lewis Palmer Elementary School/Neva Nardone: ‘‘Observation of sub-atomic particles and their interactions with a self-manufactured cloud chamber’’
- Ian McClure[6] [JC3], Evangelical Christian Academy/Libby Pinson: ‘‘How do the size and shape of a rocket’s fins affect the height it flies?’’

U. S. Navy Science Award, Sr.

- Natalie Muro[9] [SA7], Palmer High School/Nathaniel Lohmann: ‘‘Buoy wave energy converters capture of ocean wave energy’’
- Geo Raguraman[11] [SC1], Discovery Canyon High School/Beaulah Aloysius: ‘‘Regeneratus: An adaptive, regenerative protection suit for all law enforcement and armed forces personnel’’

U. S. Stockholm Water Prize

- Natalie Muro[9] [SA7], Palmer High School/Nathaniel Lohmann: ‘‘Buoy wave energy converters capture of ocean wave energy’’

UCCS Dept. of Chemistry & Biochemistry

- Cameron Carlile[6] [JC1], Lewis Palmer Elementary School/Neva Nardone: ‘‘Observation of sub-atomic particles and their interactions with a self-manufactured cloud chamber’’

Yale Science & Engineering Association

• Geo Raguraman[11] [SC1], Discovery Canyon High School/Beaulah Aloysius: ‘‘Regeneratus: An adaptive, regenerative protection suit for all law enforcement and armed forces personnel’’