

# Grand Awards

## Senior High Grand Award

- Volz, Sara[9] [SC7], Cheyenne Mountain HS/David Volz: “Improving algae biofuels: The effects of carbon dioxide and nitrogen limitation on *Nanochloropsis oculata*”

## Senior High Grand Award Runner Up

- Parish, John[11] [SD6], Home School/Maureen Parish: “Closer to where it wasn’t: Estimation and tracking using adaptive filtering”

## Junior High Grand Award

- Muir, Aleesa[6] [6E18], The Classical Academy/Candus Muir: “Developing an awareness of pet stewardship”

## Junior High Grand Award Runner Up

- Matteson, Haley[8] [8A7], North MS/Greg Busby: “Sick plants, well plants – Using plants as biological indicators of pharmaceutical pollution & remediation”

# Senior Awards

## Senior High Biological Science

### First Place – Senior High Biology

- Jasperse-Sjolander, Liam[10] [SA3], Palmer HS/Nancy Hampson: “A study of bacteriostatic agents: Part 2”

### Second Place – Senior High Biology

- Glenn, Harley[11] [SA10], Falcon HS/Jennifer Gray: “Hydroponics for the future”

### Third Place – Senior High Biology

- Turner, Molly[9] [SA5], Palmer HS/Carolyn Derr: “Acid rain repair”

## Senior High Health/Behavioral Science

### First Place – Senior High Health/Behavioral Science

- Shankar, Rahul[10] [SB13], Rampart HS/Regina Miller: “Proteomic method development for the analysis of tissue transglutaminase’s role in cancer progression”

### Second Place – Senior High Health/Behavioral Science

- Hinkle, Ellie[10] [SB2], Palmer HS/Nancy Hampson: “Shut up and drive”

### Third Place – Senior High Health/Behavioral Science

- Wallisch, Maria[10] [SB8], Palmer HS/Nancy Hampson: “Testing for bias in a photo lineup”

## Senior High Physical Science

### First Place – Senior High Physical Science

- Volz, Sara[9] [SC7], Cheyenne Mountain HS/David Volz: “Improving algae biofuels: The effects of carbon dioxide and nitrogen limitation on *Nanochloropsis oculata*”

### Second Place – Senior High Physical Science

- Hahn, Ethan[12] [SC4], The Classical Academy/Linda Cummings: “Nuclear fusion by inertial electrostatic confinement: Increasing efficiency with thermionic emission”

### Third Place – Senior High Physical Science

- Stewart, Jasmine[9] [SC6], Palmer HS/Karen Crosson: “More than light”

## Senior High Engineering/Math/C.S.

### First Place – Senior High Engineering/Mathematics/C.S.

- Parish, John[11] [SD6], Home School/Maureen Parish: “Closer to where it wasn’t: Estimation and tracking using adaptive filtering”

### Second Place – Senior High Engineering/Mathematics/C.S.

- Wise, David[11] [SD4], The Classical Academy/Linda Cummings: “Mathematical analysis of chemical equilibria”

### Third Place – Senior High Engineering/Mathematics/C.S.

- Krause, Christopher[12] [SD9], The Classical Academy/Annette Calabretta: “Microclimates Under the Microscope”

## Senior High Group Projects

### First Place – Senior High Group Projects

- Pavlenko, Tonya[11] & Gudvangen, Laura[11] [SF1], Palmer HS/Greg Busby: “Internal combat with melanoma: Triggering an immune response ...”

### Second Place – Senior High Group Projects

- Muir II, Lorne[10] & Weeks, Nathan[10] [SF2], The Classical Academy/Candus Muir: “The separate toxicity of various engineered nanoparticles by flow cytometry”

### Third Place – Senior High Group Projects

- Curti, Diana[10] & Saenz, Katya[10] [SF4], Palmer HS/Nancy Hampson: “What’s in your water?”

### Fourth Place – Senior High Group Projects

- Moran, Taylor[10] & Anstett, Molly[10] [SF5], Palmer HS/Nancy Hampson: “Flour power”
- Morrison Pibel, Katie[9] & Gardner, Chrissy[9] [SF9], Palmer HS/Carolyn Derr: “Vampire leukemia”

### Fifth Place – Senior High Group Projects

- Henjum, Kate[9] & Plutt, Maren[9] [SF7], Palmer HS/Carolyn Derr: “You best not be a ‘P’ if your in IB!”
- Hibbert, Jessica[9] & Marten, Ashley[9] [SF10], Palmer HS/Martha Alvarez: “To eat or not to eat”

# Junior Awards -- Eighth Grade

## 8th Grade Biological Science

### First Place – 8th Grade Biology

- Matteson, Haley[8] [8A7], North MS/Greg Busby: “Sick plants, well plants – Using plants as biological indicators of pharmaceutical pollution & remediation”

### Second Place – 8th Grade Biology

- Lugo, Alina[8] [8A6], North MS/Greg Busby: “Planaria regeneration and electromagnetism”

### Third Place – 8th Grade Biology

- Gentz, Nick[8] [8A5], North MS/Greg Busby: “Salty algae”

## 8th Grade Health & Behavioral Science

### First Place – 8th Grade Health & Behavioral Science

- Schubert, Marika[8] [8B25], Russell MS/Suzanne Bowes: “Our subconscious and its effect”

### Second Place – 8th Grade Health & Behavioral Science

- McIntyre, Hannah[8] [8B9], North MS/Greg Busby: “Natural vs. antibiotics: Which is more effective on the killing of *e. coli*?”

### Third Place – 8th Grade Health & Behavioral Science

- Negley, Abigail[8] [8B10], North MS/Greg Busby: “Pain killers and planaria – How do they effect the healing process?”
- Fisher, Alissa[8] [8B19], North MS/Greg Busby: “What is the effect of body mass on carbon dioxide output”

### Fourth Place – 8th Grade Health & Behavioral Science

- Bushnell, Jordan[8] [8B1], Russell MS/Suzanne Bowes: “Canine caterwauling”
- Dewey, Madison[8] [8B4], North MS/Greg Busby: “Paranoid”
- White, Courtney[8] [8B5], North MS/Greg Busby: “Mouse maze”

### Fifth Place – 8th Grade Health & Behavioral Science

- Davis, Mia[8] [8B11], North MS/Greg Busby: “Say cheese!”
- Wallisch, Alessandra[8] [8B21], North MS/Greg Busby: “Prize or praise”
- Southcott, Matt[8] [8B24], Russell MS/Suzanne Bowes: “The alligator and the brain”

## **8th Grade Physical Sci., Eng., Math., & C.S.**

### **First Place – 8th Grade Physical Sci., Eng., Math., & C.S.**

- Schneider, Sophia[8] [8C2], North MS/Greg Busby: “Reducing global warming? The effect of microorganisms on geologic sequestration”

### **Second Place – 8th Grade Physical Sci., Eng., Math., & C.S.**

- Mike, Aidan[8] [8C4], North MS/Greg Busby: “What’s the point?”

### **Third Place – 8th Grade Physical Sci., Eng., Math., & C.S.**

- Becar, Natalie[8] [8C14], Russell MS/Suzanne Bowes: “Think before you drink”

### **Fourth Place – 8th Grade Physical Sci., Eng., Math., & C.S.**

- Anderson, Samantha[8] [8C3], North MS/Greg Busby: “Drained juice”

### **Fifth Place – 8th Grade Physical Sci., Eng., Math., & C.S.**

- Everhart, David[8] [8C15], Edison MS/Rachel Kozhevnikova: “Fish fry fuel”

# Junior Awards -- Seventh Grade

## 7th Grade Biological Science

### First Place – 7th Grade Biology

- Smith, Chelsea[7] [7A9], The Classical Academy/Candus Muir: “Ewww! What’s on my shoe?”

### Second Place – 7th Grade Biology

- Mast, Riley[7] [7A20], The Classical Academy/Candus Muir: “Death in a bottle???”

### Third Place – 7th Grade Biology

- Witzel, Marcus[7] [7A11], The Classical Academy/Shawn O’Toole: “Monumental mold”

### Fourth Place – 7th Grade Biology

- Song, Kyung[7] [7A14], Russell MS/Lois Vavra: “Good news: Chlorine destroys germs; Bad news: Is it healthy to drink?”
- Young, Justin[7] [7A17], The Classical Academy/Candus Muir: “The ants are dying 2 by 2... (why?)”

### Fifth Place – 7th Grade Biology

- Hartley, Jenna[7] [7A2], North MS/Caitlin Holt: “Bacterial resistance”
- Fowler, Sydney[7] [7A18], The Classical Academy/Shawn O’Toole: “How does your garden grow”
- Carrese, Dominic[7] [7A19], North MS/Caitlin Holt: “South African raptors: A flight from human development?”

## 7th Grade Health & Behavioral Science

### First Place – 7th Grade Health & Behavioral Science

- Matteson, Sydney[7] [7B1], North MS/Caitlin Holt: “Planaria grow fast or slow to serial dilutions of vit”

### Second Place – 7th Grade Health & Behavioral Science

- Percy, Megan[7] [7B15], The Classical Academy/Candus Muir: “The best thing since fresh fruit”

### Third Place – 7th Grade Health & Behavioral Science

- Merkert, Molly[7] [7B4], North MS/Caitlin Holt: “Television couch-potato rats”

### Fourth Place – 7th Grade Health & Behavioral Science

- Trinidad, Katelynd[7] [7B14], The Classical Academy/Shawn O’Toole: “What stains my teeth?”
- Cameron, Kaitlyn[7] [7B17], The Classical Academy/Shawn O’Toole: “Can you remember?”

### Fifth Place – 7th Grade Health & Behavioral Science

- Reece, Emma[7] [7B11], North MS/Caitlin Holt: “Flower vs. gun: what will you remember?”
- Mareyassich, Polina[7] [7B18], North MS/Michael White: “What did you say?”

## **7th Grade Physical Science**

### **First Place – 7th Grade Physical Science**

- Frieden, Brent[7] [7C28], The Classical Academy/Candus Muir: “Sound effects”

### **Second Place – 7th Grade Physical Science**

- Wilson, Lauren[7] [7C24], The Classical Academy/Candus Muir: “Blaze vs. baking soda”

### **Third Place – 7th Grade Physical Science**

- Walter, Audrey[7] [7C11], The Classical Academy/Candus Muir: “Got purple?”
- Frantz, Emma[7] [7C14], North MS/Michael White: “The effects of magnetic levitation on friction force”

### **Fourth Place – 7th Grade Physical Science**

- Warren, Trent[7] [7C5], The Classical Academy/Candus Muir: “Laser intensity”
- Wilson, Bobby[7] [7C23], Edison MS/Rachel Kozhevnikova: “Making a bio-degradable bullet-proof vest”
- Sommer, Courtney[7] [7C29], The Classical Academy/Candus Muir: “Is the mass or area of toilet paper more important to your bottom line?”

### **Fifth Place – 7th Grade Physical Science**

- Baker, Charles[7] [7C8], The Classical Academy/Shawn O’Toole: “Magnetic cars”
- Klingman, Devon[7] [7C13], North MS/Michael White: “Fiery fresh fabrics”
- Martin, Tara[7] [7C27], The Classical Academy/Shawn O’Toole: “Do you hear what I hear”

## **7th Grade Math & Computer Science**

### **First Place – 7th Grade Mathematics & Computer Science**

- Barrett, Tanner[7] [7E7], The Classical Academy/Candus Muir: “Whatever floats your boat”

### **Second Place – 7th Grade Mathematics & Computer Science**

- Parrish, Ryan[7] [7E8], North MS/Caitlin Holt: “Does size matter – Effects of building size for the wind removal of pollution”

### **Third Place – 7th Grade Mathematics & Computer Science**

- Overton, Aaron[7] [7E3], The Classical Academy/Candus Muir: “It’s a drag”

# Junior Awards -- Sixth Grade

## 6th Grade Biological Science

### First Place – 6th Grade Biology

- Snyder, Kayla[6] [6A11], Falcon MS/Chris Roberts: “Ice is nice”

### Second Place – 6th Grade Biology

- Brasuel, Leo[6] [6A6], North MS/Caitlin Holt: “Capsaicin amounts in parts of the chili”

### Third Place – 6th Grade Biology

- McQueen, Taylor[6] [6A2], North MS/Caitlin Holt: “Growing tulips”

## 6th Grade Health & Behav. Science, Div I

### First Place – 6th Grade Health & Behavioral Science, I

- Carter, Rene[6] [6B5], North MS/Caitlin Holt: “Dandelion root and peppermint leaf vs. penicillin”

### Second Place – 6th Grade Health & Behavioral Science, I

- Foster, Sophie[6] [6B2], North MS/Caitlin Holt: “Color confusions”

### Third Place – 6th Grade Health & Behavioral Science, I

- Hudson, Sylvie[6] [6B1], North MS/Greg Busby: “Touching memories”

### Fourth Place – 6th Grade Health & Behavioral Science, I

- Nillaga, Cassie[6] [6B7], North MS/Caitlin Holt: “How old is that strawberry?!”
- Jennings, Quinn[6] [6B8], North MS/Caitlin Holt: “Is it clean?”

### Fifth Place – 6th Grade Health & Behavioral Science, I

- Leech, Johnny[6] [6B12], North MS/Caitlin Holt: “Contagious currency”
- McWilliams, Leta[6] [6B13], North MS/Caitlin Holt: “The brain’s right side, left side and sound volume”

## **6th Grade Physical Science**

### **First Place – 6th Grade Physical Science**

- Smith, Noah[6] [6C6], North MS/Caitlin Holt: “Traditional or mesh: Speed and accuracy”

### **Second Place – 6th Grade Physical Science**

- Crossley, Zachary[6] [6C15], Falcon MS/Lisa DeHoyos: “Modified nerf gun; distance and velocity”

### **Third Place – 6th Grade Physical Science**

- Camacho, Cedric[6] [6C12], Edison MS/Rachel Kozhevnikova: “Hydropower”

### **Fourth Place – 6th Grade Physical Science**

- Paul, Sydney[6] [6C13], Edison MS/Rachel Kozhevnikova: “Magnetic permeability”

### **Fifth Place – 6th Grade Physical Science**

- Howard, Emma[6] [6C1], North MS/Greg Busby: “The caffeinated radish”

## **6th Grade Health & Behav. Science, Div II**

### **First Place – 6th Grade Health & Behavioral Science, II**

- Muir, Aleesa[6] [6E18], The Classical Academy/Candus Muir: “Developing an awareness of pet stewardship”

### **Second Place – 6th Grade Health & Behavioral Science, II**

- Abineri, Tess[6] [6E3], North MS/Caitlin Holt: “Lefties and righties put to the test”

### **Third Place – 6th Grade Health & Behavioral Science, II**

- Zawacki, Lauren[6] [6E10], North MS/Caitlin Holt: “I’m drinking what?”

### **Fourth Place – 6th Grade Health & Behavioral Science, II**

- McCurry, Kayla[6] [6E13], North MS/Caitlin Holt: “What’s this liquid?”
- Conway, Abigail[6] [6E20], North MS/Caitlin Holt: “Does listening to music help you study, which kind?”

### **Fifth Place – 6th Grade Health & Behavioral Science, II**

- Higgins, Lauren[6] [6E2], North MS/Greg Busby: “Brain teaser memory”
- Albrecht, Amber[6] [6E11], North MS/Caitlin Holt: “Fish tank bacterial blooms”

# Junior Awards -- Junior High Group

## Junior High Group Projects

### First Place – Junior High Group Projects

- Dewey, Lauren[6] & Sullivan, Ellie[6] [JF1], North MS/Greg Busby: “Don’t kiss your ...”

### Second Place – Junior High Group Projects

- Schofield, Levi[8] & Dekker, Luke[8] [JF8], Evangelical Christian/Karen Leidecker: “DWD”

### Third Place – Junior High Group Projects

- Wahlen, Jessica[6] & Padilla, Serena[6] [JF4], North MS/Caitlin Holt: “Bad bacteria”

## State Fair Invitations

# Special Awards

## **AFCEA Junior 1st**

- Rummel, Ethan[6] [6C9], Galileo MS/Michael Anderson: “What is the best design for an ion engine”

## **AFCEA Junior 2nd**

- Wilson, Bobby[7] [7C23], Edison MS/Rachel Kozhevnikova: “Making a bio-degradable bullet-proof vest”

## **AFCEA Junior 3rd**

- Frantz, Emma[7] [7C14], North MS/Michael White: “The effects of magnetic levitation on friction force”

## **AFCEA Senior 1st**

- Hahn, Ethan[12] [SC4], The Classical Academy/Linda Cummings: “Nuclear fusion by inertial electrostatic confinement: Increasing efficiency with thermionic emission”

## **AFCEA Senior 2nd**

- Parish, John[11] [SD6], Home School/Maureen Parish: “Closer to where it wasn’t: Estimation and tracking using adaptive filtering”

## **AFCEA Senior 3rd**

- Volz, Sara[9] [SC7], Cheyenne Mountain HS/David Volz: “Improving algae biofuels: The effects of carbon dioxide and nitrogen limitation on *Nanochloropsis oculata*”

## **American Association of University Women, Junior**

- Smith, Karin[7] [7E2], The Classical Academy/Shawn O’Toole: “Digitally capturing the scene of the crime”

## **American Association of University Women, Senior**

- Morrison Pibel, Katie[9] & Gardner, Chrissy[9] [SF9], Palmer HS/Carolyn Derr: “Vampire leukemia”

## **American Meteorological Society**

- Stegner, Cassidy[7] [7C2], North MS/Caitlin Holt: “Which color light on a foggy night?”
- Reinking, Cleo[8] [8C1], North MS/Greg Busby: “The solar aureole & water vapor”

## **American Psychological Association**

- Kwon, John[12] [SB12], Pine Creek HS/Alisha Donald: “Personality impact on memory”

## **American Society for Materials, International**

- Wilson, Bobby[7] [7C23], Edison MS/Rachel Kozhevnikova: “Making a bio-degradable bullet-proof vest”

## **Association for Women Geoscientists**

- Heier, Caitlin[8] [8C12], Russell MS/Suzanne Bowes: “Underground water flow”

## **Citizen’s Project**

- Matteson, Haley[8] [8A7], North MS/Greg Busby: “Sick plants, well plants – Using plants as biological indicators of pharmaceutical pollution & remediation”
- Hinkle, Ellie[10] [SB2], Palmer HS/Nancy Hampson: “Shut up and drive”

## **Colorado Associates in Medical Physics**

- Gaddipati, Phani[10] [SD5], Discovery Canyon HS/Michael Amundson: “Wireless power”

## **Colorado College Psychology**

- Howard, Tanner[9] [SB1], Palmer HS/Martha Alvarez: “Inter-fear-ance”

## **Colorado Geological Survey**

- Schneider, Sophia[8] [8C2], North MS/Greg Busby: “Reducing global warming? The effect of microorganisms on geologic sequestration”
- Rufenacht, Mattie[8] [8C10], Peyton MS/Jenni Esser: “Mudslide”

## **Colorado Springs Mineralogical Society, First**

- Schneider, Sophia[8] [8C2], North MS/Greg Busby: “Reducing global warming? The effect of microorganisms on geologic sequestration”

## **Colorado Springs Mineralogical Society, Second**

- Kurko, Sara[7] [7C22], Pikes Peak Chr. S./Phil Euken: “The trickle down effect”

## **Colorado Springs Mineralogical Society, Third**

- Heier, Caitlin[8] [8C12], Russell MS/Suzanne Bowes: “Underground water flow”

## **Comfort Zone Jr. High**

- Schneider, Sophia[8] [8C2], North MS/Greg Busby: “Reducing global warming? The effect of microorganisms on geologic sequestration”

## **Comfort Zone Sr. High**

- Volz, Sara[9] [8C7], Cheyenne Mountain HS/David Volz: “Improving algae biofuels: The effects of carbon dioxide and nitrogen limitation on *Nanochloropsis oculata*”

## **Criterium Bicycles**

- Youell, Chelsey[8] [8C16], North MS/Greg Busby: “LED’s: A bright new future!”
- Cranford, Ricky[10] [SD3], Coronado HS/Darin Smith: “Perpetual motion”

## **Estes Industries**

- Crossley, Zachary[6] [6C15], Falcon MS/Lisa DeHoyos: “Modified nerf gun; distance and velocity”
- Craig, Ian[7] [7C25], The Classical Academy/Shawn O’Toole: “Paintball madness”
- Lutton, Courtney[9] [SD2], Palmer HS/Karen Crosson: “Development and evaluation of hydrogen and oxygen rockets”
- Leonard, Joshua R.[9] [SD10], Falcon HS/Jennifer Gray: “Model rocket trajectory project”

## **Fargo Pizza**

- Moody, Matthew[6] [6C11], Falcon MS/Lisa DeHoyos: “Burning calories”
- Jacobsen, Daniel[7] [7C17], The Classical Academy/Shawn O’Toole: “Go milk!”

## **Intel Corp. Excellence in Computer Science**

- Krause, Christopher[12] [SD9], The Classical Academy/Annette Calabretta: “Microclimates Under the Microscope”

## **Mu Alpha Theta**

- Darby-McClure, Rileigh[10] [SB3], Coronado HS/Darin Smith: “Intelligence in our genes”

## **National Oceanic and Atmospheric Administration**

- Stegner, Cassidy[7] [7C2], North MS/Caitlin Holt: “Which color light on a foggy night?”

## **National Society of Professional Engineers**

- King, Hunter[8] & King, Collin[8] [JF7], Evangelical Christian/Karen Leidecker: “Shaking things up”

## **Old Town Bike Shop**

- Matteson, Haley[8] [8A7], North MS/Greg Busby: “Sick plants, well plants – Using plants as biological indicators of pharmaceutical pollution & remediation”

## **PPRSF Best Senior Backboard**

- Volz, Sara[9] [SC7], Cheyenne Mountain HS/David Volz: “Improving algae biofuels: The effects of carbon dioxide and nitrogen limitation on *Nanochloropsis oculata*”

## **PPRSF Best Junior Backboard**

- Frantz, Emma[7] [7C14], North MS/Michael White: “The effects of magnetic levitation on friction force”

## **Pikes Peak Peace and Justice Commission**

- Kinne, Caroline[8] [8B3], Peyton MS/Jenni Esser: “Is your friend lying?”
- Wallisch, Maria[10] [SB8], Palmer HS/Nancy Hampson: “Testing for bias in a photo lineup”

## **Psych Soc of the Pikes Peak Region Senior First Place**

- Howard, Tanner[9] [SB1], Palmer HS/Martha Alvarez: “Inter-fear-ance”

## **Psych Soc of the Pikes Peak Region Senior Second Place**

- Wallisch, Maria[10] [SB8], Palmer HS/Nancy Hampson: “Testing for bias in a photo lineup”

## **Psych Soc of the Pikes Peak Region Junior First Place**

- Hudson, Sylvie[6] [6B1], North MS/Greg Busby: “Touching memories”

## **Psych Soc of the Pikes Peak Region Junior Second Place**

- Griffin, John[6] [6B10], North MS/Caitlin Holt: “Sound vs. scent”

## **Ricoh**

- Waterbury, Quin[6] [6C4], North MS/Caitlin Holt: “Solar energy vs. fossil fuel”

## **Society for In-Vitro Biology**

- Pavlenko, Tonya[11] & Gudvangen, Laura[11] [SF1], Palmer HS/Greg Busby: “Internal combat with melanoma: Triggering an immune response ...”

## **Society of Women Engineers Jr. Division**

- Rufenacht, Mattie[8] [8C10], Peyton MS/Jenni Esser: “Mudslide”

## **Society of Women Engineers Sr. Division**

- Lutton, Courtney[9] [SD2], Palmer HS/Karen Crosson: “Development and evaluation of hydrogen and oxygen rockets”

## **Soil and Water Conservation Society**

- Schneider, Sophia[8] [8C2], North MS/Greg Busby: “Reducing global warming? The effect of microorganisms on geologic sequestration”
- Rufenacht, Mattie[8] [8C10], Peyton MS/Jenni Esser: “Mudslide”
- Turner, Molly[9] [SA5], Palmer HS/Carolyn Derr: “Acid rain repair”
- Volz, Sara[9] [SC7], Cheyenne Mountain HS/David Volz: “Improving algae biofuels: The effects of carbon dioxide and nitrogen limitation on *Nanochloropsis oculata*”

## **Stockholm Water Prize**

- Bukowski, Michael[7] [7E11], Divine Redeemer Cath. Sch./Jeff Klassen: “Can you make water out of thin air?”
- Turner, Molly[9] [SA5], Palmer HS/Carolyn Derr: “Acid rain repair”

## **Ted's Bike Shop**

- Montoya, Maggie[8] [8B18], North MS/Greg Busby: "Running on empty"
- Fisher, Alissa[8] [8B19], North MS/Greg Busby: "What is the effect of body mass on carbon dioxide output"

## **U. S. Air Force**

- Schneider, Isabella[6] [6A3], North MS/Caitlin Holt: "Organic vs. conventional produce: Which is safer?"
- Strait, Noelle[7] [7B13], The Classical Academy/Shawn O'Toole: "Color my memory"
- Percy, Megan[7] [7B15], The Classical Academy/Candus Muir: "The best thing since fresh fruit"
- Everhart, David[8] [8C15], Edison MS/Rachel Kozhevnikova: "Fish fry fuel"

## **U. S. Metric Association Certificate of Achievement**

- Craig, Ian[7] [7C25], The Classical Academy/Shawn O'Toole: "Paintball madness"

## **U. S. Navy & Marines**

- Rummel, Ethan[6] [6C9], Galileo MS/Michael Anderson: "What is the best design for an ion engine"
- Frantz, Emma[7] [7C14], North MS/Michael White: "The effects of magnetic levitation on friction force"
- Malone, Charlie[7] [7E10], The Classical Academy/Shawn O'Toole: "Wind turbine blade pitch efficiency"
- Volz, Sara[9] [SC7], Cheyenne Mountain HS/David Volz: "Improving algae biofuels: The effects of carbon dioxide and nitrogen limitation on *Nanochloropsis oculata*"
- Gaddipati, Ravi[10] [SD1], Discovery Canyon HS/Michael Amundson: "Optimizing low energy railgun systems"
- Lutton, Courtney[9] [SD2], Palmer HS/Karen Crosson: "Development and evaluation of hydrogen and oxygen rockets"

## **Western Museum of Mining and Industry**

- Schneider, Sophia[8] [8C2], North MS/Greg Busby: "Reducing global warming? The effect of microorganisms on geologic sequestration"

## **Yale Science & Engineering Association**

- Parish, John[11] [SD6], Home School/Maureen Parish: "Closer to where it wasn't: Estimation and tracking using adaptive filtering"

## **Most Innovative Senior High**

- Henjum, Kate[9] & Plutt, Maren[9] [SF7], Palmer HS/Carolyn Derr: "You best not be a 'P' if your in IB!"

## **Most innovative Junior High**

- Frantz, Emma[7] [7C14], North MS/Michael White: "The effects of magnetic levitation on friction force"