

March 13-18

Connecticut Science Fair

www.ctsciencefair.org

QUINNIPIAC UNIVERSITY Hamden

69th

Connecticut

Science & Engineering Fair

Quinnipiac University
Hamden

March 13 - 18, 2017

Connecticut Science Fair Association

All-volunteer Connecticut non-profit organization
Affiliate of the Intel International Science and Engineering Fair

Connecticut Science Fair Association

April 2017

69th Connecticut Science & Engineering Fair

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WEB SITES

CSEF	http://www.ctsciencefair.org
ISEF	http://www.societyforscience.org/isef
I-SWEEEP	http://www.isweeep.org
GENIUS Olympiad	http://www.geniusolympiad.org

AWARDS

FORMAT KEY					
Project No.	Category	Title	Teacher	Regional/City Fair	Town
	SchTown	School			
	Student	Hometown	Grade		
	Awards	Honors			
		Sponsor	Sponsor Award		

Life Sciences

- 1001 LT How Sweet Is It?
Stratford, St. Mark School, Teacher - Mrs Olins
Kaitlyn Feliciano, Stratford 8 Jenna Koonitsky Stratford 8
Awards: Honors = 2
- 1002 LT Is “non-toxic” dish detergent safe for the environment?
Stamford, Bi-Cultural Day School, Teacher - Christopher Graseck
Brandon King, Stamford 7 Ori Divon Stamford 7
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 2nd Place- Life Sciences MS Team- \$100 each & trophy and Invite Compete Broadcom MASTERS
 - Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash
- 1003 LT Test Methods
Bethany, Amity Reg Middle School - Bethany Campus, Teacher - Kevin Berean
Juliette Zito, Woodbridge 8 Eesha Acharya Bethany 8
Awards: Honors = 2
- 1004 LT Strawberry vs Aloe
Danbury, St. Gregory the Great School, Teacher - Mrs. Christine Fahey
Gianna Casturani, Brookfield 7 Caroline Merritt Danbury 7 Giovanna Riccio-Weisse Danbury 7
Awards: Honors = 3
- 1005 LT Vulnerability of a Human’s Internal Rhythm
Hartford, Environmental Sciences Magnet School at Mary Hooker, Teacher - Rebecca Hays
Alennie Cosme, Hartford 8 Keegan Miller Bristol 8
Awards: Honors = 2
- 1006 LT The effect of different materials used as a filter on the purity of water
Shelton, St. Joseph School, Teacher - Mr. Hyland
Ana Bushati, Ansonia 8 Jon Cela Shelton 8
Awards: Honors = 3
- 1007 LT Dancing Plants
Meriden, ACES Thomas Edison Middle School, Teacher - Todd Solli
Dominic Ponce, Meriden 8 Elyssa West Meriden 8
Awards: Honors = 3
- 1008 LT Teething you the truth
Shelton, Shelton Intermediate School, Teacher - Timothy Gilson
Hailee Lazaro, Shelton 8 Cathleen Higgings Shelton 8
Awards: Honors = 2
- 1009 LT Seaweed & Tsunamis
New Haven, Worthington Hooker Middle School, Teacher - Douglas Jones
Amelia Cox, New Haven 7 Sage Urban New Haven 7
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 3rd Place- Life Sciences MS Team- trophy and Invite to Compete Broadcom MASTERS
 - National Oceanic and Atmospheric Administration --- Certificate and medallion, ,and \$25 Amazon gift card given by CSEF
 - J.A. Augustine Award --- \$100 for excellence in biology

AWARDS

- 1010 LT Food Energy - Calorimeter
Bethel, St. Mary School, Teacher - Mrs. McDonald
Joseph Campolo, Bethel 8 Anthony Campolo Bethel 8
Awards: Honors = 3
- 1011 LT Which Household or Home-Made Cleaner Best Prevents Bacteria Growth.
Danbury, St. Joseph School, Teacher - Lydia Jabbour
Matthew Riggs, Danbury 8 Steven Soto Danbury 8
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion
- 1012 LT Clean!... Chemical Free!...Protect your family!
Danbury, St. Gregory the Great School, Teacher - Mrs. Christine Fahey
Aiden Coleman, Danbury 7 Joseph Wilson Danbury 7
Awards: Honors = 2
- 1013 LT Acid rain vs. algae
Bridgeport, Park City Prep Charter School, Teacher - Mr. Jaekle
Leanna Hosten, Bridgeport 8 Joy Longwa Bridgeport 8
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion
- 1014 LT Extracting DNA from fruit
Meriden, ACES Thomas Edison Middle School, Teacher - Todd Solli
Brianna Oliveras, Meriden 8 Mikaela Mitchell Meriden 8
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion
- 1015 LT Can You Cope With Your Dish Soap?
Plantsville, J.F. Kennedy Middle School, Teacher - Mrs. Pepin
Adriana Oddo, Plantsville 7 Alexis Mullins Plantsville 7
Awards: Honors = 3
- 1016 LT How do Brine Shrimp Hatch in different Ph?
Stamford, Bi-Cultural Day School, Teacher - Christopher Graseck, Rye NY
Ben Cohen, Westport 7 Joshua Marcus Westport 7
Awards: Honors = 1
• Pfizer Life Sciences Awards --- 1st Place- Life Sciences MS Team- \$100 each & trophy and Invite to Compete Broadcom MASTERS
- 1017 LT Oil Effect On Aquatic Plants
Plantsville, J.F. Kennedy Middle School, Teacher - Mrs. Pepin
Caleigh McDougall, Southington 8 Madison Johnston Southington 8
Awards: Honors = 2
• Environmental Sciences Awards with CACIWC --- 3rd Place MS- \$100, Trophy, CACIWC gifts
- 2001 L7 The Effect of Petroleum Products on the Growth of Ramshorn Snails (Planorbis Rebrum)
Newtown, St. Rose of Lima School, Teacher - John Dalton
Gregory Gargano, Sandy Hook 7
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion
• Alexion Biotechnology Awards --- 5th Place- Biotechnology 7th grade- trophy
• Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- 2002 L7 How many bacteria are on door knobs?
Hartford, Environmental Sciences Magnet School at Mary Hooker, Teacher - Kirsten Devlin
Yanayra Rosa, Newington 7
Awards: Honors = 3

- 2003 L7 Baking Soda Experiment
Danbury, St. Joseph School, Teacher - Lydia Jabbour
Tatiana Amaral, Danbury 7
Awards: Honors = 3
- 2004 L7 Mold? Food? Time
Bridgeport, Park City Prep Charter School, Teacher - Vicky Boudreau
Kourtney Payne, Bridgeport 7
Awards: Honors = 3
- 2005 L7 “Watts” the efficiency of solar cells?
Stratford, St. Mark School, Teacher - Ms. Lynn Olins
Kaitlyn Szczepanski, Stratford 7
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
 - UTC Aerospace Systems Awards for Excellence in Engineering --- 5th Place- Engineering 7th grade- trophy
 - U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate
- 2007 L7 The Effects of X-ray Radiation on Yeast
Danbury, St. Joseph School, Teacher - Ms. Jabbour
Conor O’Keefe, Danbury 7
Awards: Honors = 2
- Alexion Biotechnology Awards --- Finalist - Biotechnology 7th grade - CSF Medallion
 - Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- 2008 L7 What Level of Acidity Is Best for Growing Simple Plants?
Monroe, St. Jude School, Teacher - Mrs. Shea
Mia Sadlouskos, Monroe 7
Awards: Honors = 2
- 2009 L7 Don’t Get Hooked!
Hartford, Environmental Sciences Magnet School at Mary Hooker, Teacher - Becca Hays
Noel Carrasquillo, New Britain 7
Awards: Honors = 3
- 2010 L7 How Does Microwave Radiation Affect Organisms?
Bridgeport, Park City Prep Charter School, Teacher - Ms.Boudreau
Jenifer Bonilla, Bridgeport 7
Awards: Honors = 3
- 2011 L7 How Different Colored Lights Impact Plant Growth
Stamford, Bi-Cultural Day School, Teacher - Christopher Graseck
Aaron Liebskind, Stamford 7
Awards: Honors = 3
- 2012 L7 BITE BRIGHT - A Natural Tooth Paste
Greenwich, Greenwich Catholic School, Teacher - Mrs.Carol Lutz
Monica Marino, Riverside 7
Awards: Honors = 2
- Sister Mary Christine Life Sciences Award --- \$100 for excellence in the life sciences by a catholic middle school project
 - Connecticut Invention Convention “Next Step Inventors” --- \$50 gift certificate & invitation to present at CT Invention Convention as “CIC Next Step Inventors”
- 2013 L7 how age affects memory
Hartford, Environmental Sciences Magnet School at Mary Hooker, Teacher - Kirsten Devlin
Shakiara Levest, Hartford 7
Awards: Honors = 3

AWARDS

- 2014 L7 Which Bioplastic is more Elastic
Cheshire, St. Bridget School, Teacher - Michelle Carroll
Kavin Kathir, Cheshire 7
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 5rd Place- Life Sciences 7th grade- trophy
 - Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
 - Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion
 - United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- 2015 L7 Secret Life of Trees on Sweet Birch Dr.
Meriden, St. Joseph School, Teacher - Tim Coleman
Dylan Gay, Meriden 7
Awards: Honors = 2
- NYUC Pony Club Equine Award --- \$100 Cash Award or excellence in field studies
- 2017 L7 Hitting All the Right Notes: Unlocking the Formula to Oscar-Winning Original Songs
West Hartford, St. Timothy Middle School, Teacher - Danielle Locke
Mia Porcello, West Hartford 7
Awards: Honors = 2
- People's United Bank Mathematics Awards - with ATOMIC --- 2nd Place Middle School- \$100 from ATOMIC, and Trophy, \$200 from People's United Bank
- 2018 L7 Hydroponics - A World Without Dirt
Pawcatuck, St. Michael School, Teacher - Mrs. Anna-Helene Grossomanides
Anne Drago, Pawcatuck 7
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 4th Place- Life Sciences 7th grade- trophy
 - Alexion Biotechnology Awards --- 4th Place- Biotechnology 7th grade- trophy
 - Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF
 - University of Connecticut - Physics Department --- UCONN Early College Experience Program: Life Sciences - Co-Op \$100 Gift Certificate
- 2019 L7 Rethink your drink
New Haven, St. Aedan-St. Brendan School, Teacher - Michael Celentano
Aaron Brogdon-Hill, New Haven 7
Awards: Honors = 3
- Alexion Biotechnology Awards --- Finalist - Biotechnology 7th grade - CSF Medallion
- 2020 L7 pH Filtered Mussels
Hartford, Environmental Sciences Magnet School at Mary Hooker, Teacher - Rebecca Pearson Hays
Nathan Hockley, Burlington 7
Awards: Honors = 2
- CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- Middle School Finalist - Medallion
- 2021 L7 Can Pseudomonas putida purify the air by biodegrading volatile organic compounds ?
Avon, Talcott Mountain Academy, Teacher - Usha Meera
Karan Kothari, Glastonbury 7
Awards: Honors = 2
- Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, air pollution related
- 2022 L7 Green Tea: A Simple Solution for a Bananas Problem?
West Hartford, St. Timothy Middle School, Teacher - Danielle Locke
Grace Flynn, West Hartford 7
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 1st Place- Life Sciences 7th grade- \$200 & trophy and Invitation to Compete Broadcom MASTERS
 - Alexion Biotechnology Awards --- 2nd Place- Biotechnology 7th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS
 - Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School Life Sciences

- 2023 L7 Is That Granite Radioactive?
 Pawcatuck, St. Michael School, Teacher - Mrs. Grossomanides
 Samuel Montalto, Westerly 7
 Awards: Honors = 1
 • Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion
 • Evelyn Brown Award --- Earth Science - Field work with geologic or historic value
- 2024 L7 Artificial Turf
 Bridgeport, Park City Prep Charter School, Teacher - Vasiliki Boudruea
 Alyssa Hall, Bridgeport 7
 Awards: Honors = 3
- 2025 L7 An Analysis of Nitrogen and Phosphate Fertilizer on Algae Growth
 Stamford, Bi-Cultural Day School, Teacher - Christopher Graseck
 Anna Lichtenberg, Stamford 7
 Awards: Honors = 2
 • Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
 • Alexion Biotechnology Awards --- Finalist - Biotechnology 7th grade - CSF Medallion
 • Project Oceanology --- Junior-Identification guide, t-shirt, 1 week residential summer camp
 • Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash
- 2026 L7 The effect of music on memory
 Avon, Talcott Mountain Academy, Teacher - Usha Meera
 Grace Allen, Avon 7
 Awards: Honors = 2
- 2027 L7 The Effect of an Acidic Environment on Flower Seed Germination Relevance to Seed Dispersal by Animals
 Groton, Sacred Heart School, Teacher - Dennis Pelletier
 Rory Pelletier, Gales Ferry 7
 Awards: Honors = 2
- 2028 L7 The Investigation Of Acidity On Zebra Mussel Shells (driessena polymorpha)
 Newtown, St. Rose of Lima School, Teacher - John Dalton
 Katerina Crowe, Southbury 7
 Awards: Honors = 2
 • Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- 2029 L7 The Effects Of Weather On Warblers in Pomfret Ct
 Avon, Talcott Mountain Academy, Teacher - Ms. Finlayson
 Connor Farquhar, West Hartford 7
 Awards: Honors = 2
 • Yale Peabody Museum --- One-Year Family Membership to the Yale Peabody Museum
- 2030 L7 Extracting Carbohydrates From Tubers
 Bridgeport, Multicultural Magnet School, Teacher - Ms. Ciuffea
 Angelica Joyner-Cross, Bridgeport 7
 Awards: Honors = 3
- 2031 L7 Which Healthy Snack Has The Most DNA?
 Groton, Sacred Heart School, Teacher - Mrs. Logan / Mr. Fitzgerald
 Hannah Langer, Groton 7
 Awards: Honors = 2
- 2032 L7 Eco-Friendly Preservation of Vegetables
 Southington, J.A. DePaolo Middle School, Teacher - Ms. Shea
 Bogna Prusak, Southington 7
 Awards: Honors = 2

AWARDS

- 2033 L7 Pharmaceuticals In Our Water: How Can These Hazardous Chemicals Be Filtered?
Danbury, Westside Middle School Academy, Teacher - Jon Neuhausel
Khushi Parikh, Danbury 7
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
 - Alexion Biotechnology Awards --- 1st Place- Biotechnology 7th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS
- 2034 L7 Accelerating Plant Growth
New Haven, Worthington Hooker Middle School, Teacher - Mr. Jones
James Fields, New Haven 7
Awards: Honors = 2
- 2035 L7 Meat Eater
Meriden, ACES Thomas Edison Middle School, Teacher - Todd Solli
Loren Tuck, Waterbury 7
Awards: Honors = 3
- 2037 L7 Earth, Water, Flora: Reducing Soil Erosion
New Haven, Worthington Hooker Middle School, Teacher - Mr. Jones
Alena Gutierrez, New Haven 7
Awards: Honors = 1
- Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion
- 2501 L8 Hydroponics: Floating or Flowing?
Hartford, Environmental Sciences Magnet School at Mary Hooker, Teacher - Kirsten Devlin
Connor Rego, Winsted 8
Awards: Honors = 2
- Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- 2502 L8 The Effects of Smell Loss From Perfume Based on Age
Avon, Talcott Mountain Academy, Teacher - Ms. Merra
Kathleen Casey, Avon 8
Awards: Honors = 2
- 2503 L8 Sodium Polyacrylate's affect on plant growth
New Haven, Engineering Science University Magnet School, Teacher - Roger Rushworth
Akash Cheela, Milford 8
Awards: Honors = 2
- 2504 L8 A Novel Method for Oil Spill Cleanup Using Biomass
Wilton, Middlebrook Middle School, Teacher - Jessica Garcia
Anika Bhagavatula, Wilton 8
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 1st Place- Life Sciences 8th grade- \$300 & trophy and Invite to Compete Broadcom MASTERS
 - Environmental Sciences Awards with CACIWC --- 1st Place MS - \$300, Trophy, CACIWC gifts
 - Sustainable Resources and Practices Awards --- 1st Place Middle School - \$500 Cash and Trophy
 - Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Life Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
 - Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF
 - National Oceanic and Atmospheric Administration --- Certificate and medallion, and \$25 Amazon gift card given by CSEF
 - Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"
- 2505 L8 Ecological Refrigerator
West Hartford, St. Brigid-St. Augustine School, Teacher - Donald Fay
Melanie Grajales, West Hartford 8
Awards: Honors = 1
- Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion
 - Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner

- 2506 L8 Are You Throwing Away Your Money?
Danbury, St. Gregory the Great School, Teacher - Mrs. Fahey
Gianna Fanelli, Danbury 8
Awards: Honors = 2
- 2507 L8 Hydroponics vs Soil Gardening
Bethel, St. Mary School, Teacher - Kate McDonald
Lola Taylor, Bethel 8
Awards: Honors = 3
- 2509 L8 Growin' in the Wind
Hartford, Environmental Sciences Magnet School at Mary Hooker, Teacher - Mr. Clark
Tyler Schloss, Cromwell 8
Awards: Honors = 2
- 2510 L8 How do Different Types of Street Lights Impact Our Environment and What is the Safest Way to Illuminate Our Streets?
New Haven, Engineering Science University Magnet School, Teacher - Roger Rushworth
Eva Heaphy, New Haven 8
Awards: Honors = 2
- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion
 - Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
 - Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
 - Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum
 - Environmental/ Energy Award- Urban Public School Award --- \$100 Award for top environmental or alternative energy project from a New Haven public school
- 2511 L8 How age affects short term memory
Suffield, Suffield Middle School, Teacher - Mitchell Charkiewicz
Akshita Jindal, Suffield 8
Awards: Honors = 2
- American Psychological Association --- Certificate, \$25 gift card to Amazon given by CSEF
- 2512 L8 Digesting Medication
Southington, J.A. DePaolo Middle School, Teacher - D Shea
Allison Guzauckas, Southington 8
Awards: Honors = 2
- 2513 L8 Hydroponics vs. Fogponics
Bridgeport, High Horizons Magnet School, Teacher - Portia Scott-Thiam
Rebecca Abirached, Bridgeport 8
Awards: Honors = 2
- CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- Middle School Finalist - Medallion
 - Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
 - Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner
 - Southeastern New England Marine Educators --- Outstanding project in aquatic Science \$100 award and membership in SENEME - 1st place Junior and t-shirt
- 2514 L8 Bacteria Morphology and Concentration in yogurt
Danbury, Westside Middle School Academy, Teacher - Dr. Frank LaBanca
Jason Campisi, Danbury 8
Awards: Honors = 3
- Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner
- 2516 L8 Homemade RC Plane
Weston, Weston Middle School, Teacher - Darcy Ronan
Matthew Krauss, Weston 8
Awards: Honors = 3
- U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate

AWARDS

- 2517 L8 Will It Decay Or Stay? (The decay of organic matter)
Bridgeport, Park City Prep Charter School, Teacher - Jonathan Jaekle
Monica Cardenas, Bridgeport 8
Awards: Honors = 3
- 2519 L8 Is That Enough Salt for You?
Hartford, Environmental Sciences Magnet School at Mary Hooker, Teacher - Rebecca Hays
Adela Lopez, Hartford 8
Awards: Honors = 3
- 2520 L8 Do the Eyes Have It?
Cheshire, St. Bridget School, Teacher - Mrs Carroll
BriAnna McConnell, Wolcott 8
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion
- 2522 L8 Antacid Potency
Stratford, St. Mark School, Teacher - Mr. Olins
Kaitlyn Grassia, Stratford 8
Awards: Honors = 3
- 2523 L8 Cognitive Tests in Games
Orange, Amity Reg Middle School - Orange Campus, Teacher - Mr. Foley/Dahn
Yujin Kim, Orange 8
Awards: Honors = 3
- 2524 L8 What effect does surface temperature have on fingerprints?
Norwalk, Roton Middle School, Teacher - John Skopp
Sarah Signore, Norwalk 8
Awards: Honors = 1
• Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 8th grade- \$200 & trophy and Invite to Compete Broadcom MASTERS
• Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash
- 2525 L8 How Much Sugar Are You Drinking?
West Hartford, St. Brigid-St. Augustine School, Teacher - Donald Fay
Alexandra Guerrero, West Hartford 8
Awards: Honors = 2
- 2526 L8 Sweet Smarts!
West Hartford, St. Timothy Middle School, Teacher - Danielle Locke
Christopher Baldini, West Hartford 8
Awards: Honors = 2
- 2527 L8 Effects of Commonly Used Fertilizers on Decomposition
Orange, Amity Reg Middle School - Orange Campus, Teacher - Mr. Dahn/Foley
Abigail Bonat, Orange 8
Awards: Honors = 3
- 2528 L8 The affect of Roundup on GMO plants versus wild grown plants
New Haven, Engineering Science University Magnet School, Teacher - Roger Rushworth
Rachna Vipparla, Milford 8
Awards: Honors = 1
• Pfizer Life Sciences Awards --- 4th Place- Life Sciences 8th grade- trophy
- 2529 L8 Conventional v. Organic Fruit
Windsor, St. Gabriel School, Teacher - Meg Rosa
Jeremy Blackwood, Windsor 8
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion

- 2530 L8 Bacterial Growth
 Avon, Talcott Mountain Academy, Teacher - Ms. Meera
 Elise Casey, Avon 8
 Awards: Honors = 2
- 2531 L8 Does Intra-articular Hip Steroid Injection Increase The Rate of Infection With Subsequent Total Hip Replacement Surgery?
 Middlebury, Memorial Middle School, Teacher - Allyson Debe
 Alexander Kennon, Middlebury 8
 Awards: Honors = 3
 • American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF
- 2532 L8 How does the ratio of gala apple DNA to winesap apple DNA increase the speed the plants grow at?
 Danbury, Westside Middle School Academy, Teacher - Jonathan Neuhausel
 Carter Densk, Danbury 8
 Awards: Honors = 2
- 2533 L8 The Effect of Martian Regolith on Vegetable Germination for Extra Terrestrial Colonization
 Trumbull, Christian Heritage School, Teacher - Theresa Miller
 Amanda Shipman, Trumbull 8
 Awards: Honors = 1
 • Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 8th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
 • Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- 2534 L8 The Effects of Food on Breeding Xiphophorus Helleirii
 Hartford, Environmental Sciences Magnet School at Mary Hooker, Teacher - Rebecca Hays
 Natalie Reeves, Southington 8
 Awards: Honors = 1
 • Pfizer Life Sciences Awards --- 5th Place- Life Sciences 8th grade- trophy
 • CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- 4th Place Middle School - Trophy, Medallion
 • Yale Peabody Museum --- Family “six-pack” of free passes to the Yale Peabody Museum
- 2535 L8 The Effects of Music on Memory
 Orange, Amity Reg Middle School - Orange Campus, Teacher - Mr. Dahn/Foley
 Claudia Lihar, Orange 8
 Awards: Honors = 2
- 2536 L8 Love Me Tender
 Wilton, Middlebrook Middle School, Teacher - Debbie Mallozzi
 Ashley Klancko, Wilton 8
 Awards: Honors = 2
- 2537 L8 Testing CNT (Carbon Nanotubes) to filter E. coli Infected Water Samples
 Danbury, Westside Middle School Academy, Teacher - Andrea LaRosa
 Lasyapriya Josyula, Danbury 8
 Awards: Honors = 3
 • Sustainable Resources and Practices Awards --- 3rd Place Middle School - \$200 Cash and Trophy
 • Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$500 & trophy and Invitation Compete in Broadcom MASTERS
- 2538 L8 How does the sugar content of a banana changeover time?
 Danbury, St. Joseph School, Teacher - Miss Lydia Jabbour
 Robert Fontenelli, Danbury 8
 Awards: Honors = 2
- 2539 L8 Phototropism: In Indoor Germinated Seedlings
 Pawcatuck, St. Michael School, Teacher - Mrs. Anna-Helene Grossomanides
 Mary Malloy, Mystic 8
 Awards: Honors = 1
 • Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion

AWARDS

- 2541 L8 Well Water vs Tap Water and its Effect on Plant Growth
Meriden, ACES Thomas Edison Middle School, Teacher - Todd Solli
Shontai Cross, Meriden 8
Awards: Honors = 3
- 2542 L8 Larva -B-Gone: A Safer Way To Eliminate The Threat of Zika and Other Mosquito Borne Diseases
Bridgeport, Park City Prep Charter School, Teacher - Mr. Jonathan Jaekle
Antonios Boudreau, Ansonia 8
Awards: Honors = 1
- Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion
 - CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- Middle School Finalist - Medallion
 - Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Life Science
- 3001 LS Investigating Murine Humoral Responses to Tick-borne Pathogens to Develop a Confirmatory Diagnostic Tool
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Emily Criscuolo, Woodbridge 12
Awards: Honors = 3
- 3002 LS The Effect of Collect Nutrient Powder on Mus Musculus Lewis Lung Carcinoma Cell Confluence, Viability and Growth Rate
Windsor, Greater Hartford Academy of Math and Science, Teacher - Dr. Lili Aramlli
Marissa Guzzo, Suffield 11
Awards: Honors = 2
- Society for In Vitro Biology --- Certificate and \$25 Amazon gift card given by CSEF
- 3003 LS The Investigation of Electrolytes
Bridgeport, Warren Harding High School, Teacher - Dr. V. Gupta
Karim Alveranga, Bridgeport 11
Awards: Honors = 3
- 3004 LS The Ameliorating Effects of Biochar and Fertilizers on the Amount of Organic Matter and Organic Carbon in Native Connecticut Soil
Redding, Joel Barlow High School, Teacher - Dr. Nuzzo
Luca Cerbin, Redding 11
Awards: Honors = 3
- 3005 LS Bioassay investigation of organic and chemical fertilizers with Daphnia and Tardigrades
Fairfield, Notre Dame Catholic High School, Teacher - Kathy Almeida
Benjamin Clark, Bridgeport 10
Awards: Honors = 3
- 3006 LS Dissecting the role of Desmosterol in regulating macrophage immune activation during atherogenesis
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Agrani Dixit, Woodbridge 11
Awards: Honors = 2
- Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- 3007 LS Prevention of Zika Virus Infection and Other Mosquito-Borne Diseases Using Environmentally Sound Control Methods
Danbury, Danbury High School, Teacher - Karen Lamb
Bradley Kerr, Danbury 9
Awards: Honors = 1
- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 - CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- Senior High Finalist - Medallion
 - Environmental Sciences Awards with CACIWC --- 3rd Place HS- \$100, Plaque, CACIWC gifts
 - Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash
- 3008 LS Leg Exoskeleton for Patient With Osteogenesis Imperfecta to Help Prevent Bone Fractures
Sandy Hook, Newtown High School, Teacher - Tim DeJulio
Chloe Kasak, Sandy Hook 12
Awards: Honors = 3

- 3010 LS Rapid Colorimetric Field Monitoring System for Zika Virus in Mosquito Populations via DNAzyme-Functionalized Gold Nanoparticles
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Rahul Subramaniam, Cos Cob 10
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 5th Place- Life Sciences Senior High- Plaque
 - Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
 - Bob Harris Fix It Award --- \$75 and Certificate for ingenuity in using material and tools
- 3011 LS The Effect of Plasmid on the Transformation Efficiency of Component Escherichia Coli (E. coli)
Danbury, Danbury High School, Teacher - Linda Kimble
Sarah Johnson, Danbury 9
Awards: Honors = 2
- 3012 LS Self Defogging Ski Goggles
Suffield, Suffield High School, Teacher - Mitchell Charkiewicz
Ryan Cleaves, Canton 12
Awards: Honors = 3
- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
- 3013 LS Formulation of Gelatin-Hyaluronic Acid Blend Cross-Linked Gels for Potential Tissue Applications: Cost-Effective, Patient Specific, Alternative Treatment of Labral Tears of the Hip
New Haven, Wilbur Cross High School, Teacher - Charlene Woodland
Sophie Edelstein, New Haven 10
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High- \$300 & Plaque, Trip to compete at Intel ISEF
 - CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- 4th Place High School - Plaque, Medallion
 - UTC Aerospace Systems Awards for Excellence in Engineering --- 1st Place- Engineering Senior High- Trip to compete at Intel ISEF, \$500 & plaque,
 - Alexion Biotechnology Awards --- 2nd Place- Biotechnology Senior High- \$500 & plaque
 - Otero Family Award --- The Otero Family Award; \$200 cash
 - Lunch with a Patent Attorney --- Lunch with a Patent Attorney
 - University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Biochemistry
- 3014 LS Examining variation in immunity genes of bananas of different geographic regions through genotyping
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Sebin Park, Woodbridge 11
Awards: Honors = 2
- 3015 LS An Investigation of Natural Alternatives to Chlorine When Treating Microbial-Contaminated Water
Greenwich, Brunswick School, Teacher - Dana Montanez
Asher Porphy, Harrison, NY 10
Awards: Honors = 2
- Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
 - Stockholm Junior Water Prize --- Certificate, \$25 gift card to Amazon given by CSEF, possible advance to further competition
- 3016 LS The Use of Copepods as a Mosquito Control System
Waterford, Waterford High School, Teacher - Michael O'Connor
Sophie Wang, Waterford 11
Awards: Honors = 2
- Environmental Sciences Awards with CACIWC --- 1st Place HS- \$500, Plaque, CACIWC gifts
 - University of Connecticut Academic Excellence Scholarship --- Academic Excellence Scholarship - \$6,500 a year for four academic years- (\$26,000 total)
 - Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Life Sciences
 - Fox Pest Control Award for Environmental Management --- \$150 Cash for Excellence in Environmental management
- 3018 LS IgM Expands Regulatory T Cells and Demonstrates Therapeutic Potential for Type 1 Diabetes
Darien, Darien High School, Teacher - David Lewis
Caleigh Morr, Darien 12
Awards: Honors = 2

AWARDS

- 3020 LS The Comparison of Metal Absorption of Microparticles from Various Face Washes
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Kevin Yanagisawa, Woodbridge 11
Awards: Honors = 2
- 3021 LS The Effect of Different Species of Coprophagous Arthropods on the Reduction of Methane Production from Feces
Redding, Joel Barlow High School, Teacher - Dr. Nuzzo
Daniel Brey, Redding 11
Awards: Honors = 2
• Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- 3022 LS The effects of environmental factors on overexpressed tau genes in *Drosophila Melanogaster* in regards to neurodegeneration
Westport, Staples High School, Teacher - Karen Thompson
Nicole Arellano, Westport 11
Awards: Honors = 2
- 3023 LS Interaction Between HDM2 And The UBL3 Domain Of USP7
Glastonbury, Glastonbury High School, Teacher - Diane Pintavalle
Soham Kale, Glastonbury 12
Awards: Honors = 2
• Biophysical Society --- Biophysics Award- \$100
- 3024 LS The Effects of Blue Light Technology on the Circadian Rhythms of Adolescents
Hamden, Sacred Heart Academy, Teacher - Dr. Sengupta
Amy Ziobron, Cheshire 11
Awards: Honors = 2
- 3025 LS Novel Active Immunization Approach for Preventing Substance Addiction via High Density *Trypanosoma brucei* Variant Surface Glycoprotein Arrays
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Adam Roitman, Greenwich 12
Awards: Honors = 2
- 3026 LS Cognitive Strengths and Weaknesses of Adults with Reading Disabilities
Darien, Darien High School, Teacher - Guy Pratt
Catherine Gorey, Darien 12
Awards: Honors = 3
- 3027 LS Determining Genetic Mutations in Gitelman Syndrome
Woodbridge, Amity Regional High School, Teacher - Ms. Deborah Day
Alicia Chen, Woodbridge 12
Awards: Honors = 3
- 3028 LS The Future of Bio-Sand Filtration Systems: The Incorporation of Water Hyacinths (*Eicchornia Crassipes*) To Remove Arsenic in Contaminated Drinking Water
Hamden, Hamden High School, Teacher - Sophia Michalatos
Rockib Uddin, Hamden 12
Awards: Honors = 2
- 3029 LS Raynaud's Phenomenon Noninvasive Treatment Through Natural Breathing and Meditation Techniques
Bethel, Bethel High School, Teacher - Ray Turek
Jessica MacIntyre, Bethel 12
Awards: Honors = 2
- 3031 LS The Effect of Bezafibrate Treatment on a *Drosophila melanogaster* Model of LCHAD Deficiency
Norwich, Norwich Technical High School, Teacher - Dr. Jesse Morin
Christopher Papotto, Colchester 11
Awards: Honors = 2

- 3032 LS Crowd-Sourced Detection and Mapping of Nitrate Water Pollutants via a Mobile Web-Based Image Analysis System
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Luca Barcelo, Old Greenwich 11
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 4th Place- Life Sciences Senior High- Plaque
 - American Society for Quality - Thames Valley Section --- \$250 Cash Award
 - Project Oceanology --- Senior-Identification guide, t-shirt, 1 week residential summer camp
- 3033 LS Shell Shock: The Effects of Ocean Acidification on Shelled Marine Organisms
Shelton, Shelton High School, Teacher - Mr. Goddard
Hunter Wronski, Shelton 12
Awards: Honors = 3
- 3034 LS What is the Effect of Different Concentrations of Salinity on the Growth of Grass?
New London, Science and Technology Magnet HS, Teacher - Mr. Mulligan
Morgan Slusarz, Connecticut 10
Awards: Honors = 3
- 3035 LS Identifying Small Molecule Translesion Synthesis Pathway Inhibitors Targeting Rev1-Ct Protein-Protein Interaction
Glastonbury, Glastonbury High School, Teacher - Ms. Diane Pintavalle
Samantha Chow, Glastonbury 12
Awards: Honors = 3
- Cell Analysis and Modeling Award -Center for Cell Analysis and Modeling at UCHC --- \$100 monetary prize- and Tour of the Cell and Genome Sciences Institute at UCONN Health Center
- 3036 LS 4,2-Dichlorophenoxyacetic acids influence on production of soft tissue sarcoma within Rodent Skeletal muscle.
Bethel, Bethel High School, Teacher - Mr. Turek
Henry Valle, Bethel 12
Awards: Honors = 3
- 3038 LS An Investigation on the Potency of Sunscreen in Protecting Against UV Rays
Trumbull, Trumbull High School, Teacher - Steffanie Elkins
Victoria Estacio, Trumbull 12
Awards: Honors = 3
- 3040 LS An Investigation of Halophilic Microbes to Bio-remediate Brine Backflow in Soil Adjacent to Hydraulic Fracking Wells
Greenwich, Brunswick School, Teacher - Dana Montanez
Jack Driscoll, Greenwich 11
Awards: Honors = 2
- 3041 LS A Novel Approach to the Ease and Accessibility of Early Detection of Chronic Kidney Disease (CKD) to Prevent Onset of End Stage Renal Disorder Through Examination of Urinalysis
Redding, Joel Barlow High School, Teacher - Dr. Katherine Nuzzo
Sumudu Gunawardana, Easton 11
Awards: Honors = 3
- 3042 LS Genomic Analysis of Osteosarcoma to Identify Novel Key Regulatory Pathways in Tumorigenesis
Glastonbury, Glastonbury High School, Teacher - Diane Pintavalle
Samarth Venkata Menta, Glastonbury 11
Awards: Honors = 3
- Cell Analysis and Modeling Award -Center for Cell Analysis and Modeling at UCHC --- \$100 monetary prize- and Tour of the Cell and Genome Sciences Institute at UCONN Health Center
- 3043 LS Cilantro and plants with ester functional groups purify copper(II) from water
Westport, Staples High School, Teacher - Dr. Tinoco
Virginia Gerig, Westport 12
Awards: Honors = 2

AWARDS

- 3044 LS Patterns in the Overall Performance of Baseball Players at Different Positions
Storrs, EO Smith High School, Teacher - Cheryl Granger
Alexander Chandy, Storrs 10
Awards: Honors = 2
• American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF
- 3046 LS Effective Nutrient Source on Growth of Mint Lettuce
New London, Science and Technology Magnet HS, Teacher - Charles Mulligan
K.D. Spencer Roman, New London 10
Awards: Honors = 3
- 3047 LS The Role of Rigosertib Treatment in the Expression and Localization of RASSF1 in RASSF1 Transfected Cancer Cells
Darien, Darien High School, Teacher - David Lewis
William Brandon, Darien 12
Awards: Honors = 3
• Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
- 3049 LS The Effect of Time on Bacteria Growth on Books
New London, Science and Technology Magnet HS, Teacher - Charles Mulligan
Aidan Desjardins, Stonington 10
Awards: Honors = 3
- 3050 LS The Effect of Sleep Deprivation on Verbal and Visual Memory Retention in High School Adolescents
Greens Farms, Greens Farms Academy, Teacher - Mathieu Freeman
Reed Bingham, Fairfield 12
Awards: Honors = 2
- 3051 LS Starch in leaves.
Windsor, Madina Academy, Teacher - Saqib Chariwala
Fairuza Mikailou, Manchester 10
Awards: Honors = 3
- 3052 LS Flu Induced Alterations In Muscle Cytokine Expression Due To Aging
Glastonbury, Glastonbury High School, Teacher - Diane Pintavalle
Ronak Mahatme, Glastonbury 12
Awards: Honors = 2
• Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- 3054 LS Effects of bromelain on raw ground beef.
New London, Science and Technology Magnet HS, Teacher - Mr. Mulligan
Jack Nye, Lisbon 10
Awards: Honors = 3
- 3055 LS The Effect of Oxidative Stressors on Cultured Epithelial Lung Cells
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Ulada Dubovik, Orange 11
Awards: Honors = 2
- 3056 LS Cellular Cultivation Matrix Created from Collagen Found in Starfish
Greenwich, Brunswick School, Teacher - Dana Montanez
Timothy Saunders, New Canaan 10
Awards: Honors = 3
- 3058 LS An Application that Teaches the Fundamentals of Programming in Java
Suffield, Suffield High School, Teacher - Mitch Charkiewicz
Madison D'Ostuni, Suffield 12
Awards: Honors = 3
- 3059 LS Service Use in Autism Spectrum Disorder: Limits on and Challenges of Health Services and Service Dissatisfaction among Adults with Autism
Darien, Darien High School, Teacher - David Lewis
Claire Borecki, Darien 12
Awards: Honors = 3

- 3060 LS Cost-Effective, Portable Paper-Based Diagnosis of Alzheimer’s Disease: Targeting A β Oligomers Using Curcumin-PLGA-Ceria Nanoconjugates as Artificial Biomarkers
Greenwich, Greenwich High School, Teacher - Mr. Andy Bramante
William Yin, Riverside 12
Awards: Honors = 2
 - UTC Aerospace Systems Awards for Excellence in Engineering --- 5th Place- Engineering Senior High- \$100 & plaque
 - Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- \$100 & plaque
- 3061 LS The Influence of Wildebeest Carcass Inputs on the Diet of Fish in the Mara River
Redding, CT STEM Fair, Teacher - Deborah Day
Katherine Handler, Woodbridge 12
Awards: Honors = 1
 - Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 - Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- 3062 LS The antimicrobial efficacy of probiotics with *Homerus americanus* (American Lobster) exoskeleton fauna to control the impacts related to Shell Rot Disease
Bridgeport, Bridgeport Regional Aquaculture Center - BCF, Teacher - Holly Turner
Simone DiBella, Bridgeport 10
Awards: Honors = 2
- 3063 LS Using Electrical Current as an Antimicrobial
Greenwich, Brunswick School, Teacher - Dana Montanez
Matthew Pillari, Greenwich 10
Awards: Honors = 2
- 3064 LS A New Precipitate Assay relating to Palladium Blood Contaminants for Early Detection of Chagas
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Manuel Lopez, Riverside 11
Awards: Honors = 2
 - Alexion Biotechnology Awards --- 3rd Place- Biotechnology Senior High- \$300 & plaque
- 3065 LS Evaluation of Potential Outer Membrane Protein Candidates for the Serological Diagnostic of Leptospirosis
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Suvasini Balaji, Orange 12
Awards: Honors = 2
- 3066 LS Maximizing Energy Production from MudWatts
Bethel, Bethel High School, Teacher - Raymond Turek
Brynne Bosworth, Bethel 12
Awards: Honors = 1
 - Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 - Energize CT/esmarts Future Sustainability Awards --- High School Finalist - Medallion
- 3067 LS Sex Determination in Ostriches Through the Foramen Magnum and Implications for Dinosaurs
Darien, Darien High School, Teacher - Juri Miyamae
Katherine Cunningham, Darien 12
Awards: Honors = 2
- 3068 LS Predicting the Genomic Pathways of Adaptation In *Spartina alterniflora* Salt Tolerance Proteins LSD1, EDS1, and PAD4 in Response to Sea Level Rises Via Phylogenetic Trees
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk Shadle
Amanda Hernandez, Bridgeport 12
Awards: Honors = 2
 - Yale Peabody Museum --- Family “six-pack” of free passes to the Yale Peabody Museum
- 3069 LS Effect of Regulation of Autophagy on the Hedgehog Signaling Pathway in Paget’s Disease of the Bone
Glastonbury, Glastonbury High School, Teacher - Diane Pintavalle
Reshana Homma, Glastonbury 12
Awards: Honors = 2

AWARDS

- 3070 LS Using a 3-D printed intramuscular auto-injector to minimize costs for administering huBuChE and pharmaceutical grade drugs to counteract nerve agent poisoning
Greens Farms, Greens Farms Academy, Teacher - Mathieu Freeman
Luke Duffy, Wilton 12
Awards: Honors = 2
- 3071 LS Effects of Stimulants on Heart Rate
Trumbull, Trumbull High School, Teacher - Steffanie Elkins
Armand Perez, Trumbull 11
Awards: Honors = 3
- 3072 LS Developing a Minimally Invasive Form of Enhancing In Vitro Cellular Growth via Ultrasonic Frequencies
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk Shadle
Emily Luciano, Stratford 12
Awards: Honors = 2
- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion
- 3073 LS The Effects of Artemisinin and Ferrous Iron on Mouse Lewis Lung Carcinoma Growth
Windsor, Greater Hartford Academy of Math and Science, Teacher - Dr. Lili Aramli
Ashley Shafran, Southington 11
Awards: Honors = 3
- 3074 LS Remediation of Beryllium Heavy Metal via *Phaseolus vulgaris* Hyperaccumulation
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Manuel Carballo, Greenwich 12
Awards: Honors = 1
- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 - Environmental Sciences Awards with CACIWC --- 2nd Place HS- \$200, Plaque, CACIWC gifts
 - GENIUS Olympiad --- GENIUS Olympiad Competition for 2nd Place HS Environmental Project
- 3076 LS The efficacy of topical ascorbic acid as an inhibitor to mold and bacteria growth
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk Shadle
Cassidy Fawcett, Fairfield 12
Awards: Honors = 2
- ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
 - Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to dinner
- 3077 LS Evaluating the Potential of CRISPR gRNA Sequence to Target Patient Isolae Sequency
Woodbridge, Amity Regional High School, Teacher - Ms. Deborah Day
Ananya Kachru, Woodbridge 11
Awards: Honors = 2
- 3078 LS An Investigation on the Effect of the Acidification of Soil on the Growth of *Lolium perenne*
Windsor, Academy of Aerospace and Engineering, Teacher - Dr. Lili Aramli
Spencer Scutt, Enfield 11
Awards: Honors = 3
- 3081 LS Effectiveness of American Beach Grass Restoration
New London, Science and Technology Magnet HS, Teacher - Charles Mulligan
Tessa Rock, New London 11
Awards: Honors = 2
- Energize CT/esmarts Future Sustainability Awards --- High School Finalist - Medallion
 - The Goodwin-Niering Center for the Environment --- \$100 for "Excellence in Environmental Conservation Studies"
 - Alumni Botany Awards --- Alumni High School Botany Award- \$100 Cash
 - Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum

- 3083 LS Analysis of Prey Composition in Ninespine Stickleback (*Pungitius pungitius*) Infected With Cestode Parasite (*Schistocephalus pungitii*)
 Glastonbury, Glastonbury High School, Teacher - Diane Pintavalle
 Mitchell Johnson, Glastonbury 11
 Awards: Honors = 2
 • Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
 • Yale Peabody Museum --- One-Year Family Membership to the Yale Peabody Museum
- 3084 LS The Effects of Global Climate Change on the Production of Oxygen Gas and Chlorophyll Fluorescence in the Chlorophyll f Pigment and with *Chlorogloeopsis fritschii*.
 Redding, Joel Barlow High School, Teacher - Katherine Nuzzo
 Adam Boczar, Easton 11
 Awards: Honors = 2
- 3085 LS Taste Perception in Obesity: Understanding the Role of Physiological State, Macronutrient Intake, and Flavor Preference
 Woodbridge, Amity Regional High School, Teacher - Deborah Day
 Allison Fischman, Woodbridge 10
 Awards: Honors = 2
- 3086 LS Detection of Premalignant Pancreatic Cancer via Computational Analysis of Serum Proteomic Profiles
 Greenwich, Greenwich High School, Teacher - Andrew Bramante
 Shobhita Sundaram, Greenwich 11
 Awards: Honors = 1
 • Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High- \$500 & Plaque, Trip to compete at Intel ISEF
 • People's United Bank Mathematics Awards - with ATOMIC --- 1st Place High School- \$150 from ATOMIC, Plaque, \$500 from People's United Bank
 • Xerox Computer Science Awards --- 2nd Place High School - \$300, Plaque, Medallion
 • H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Life Sci. Senior 1st HS- \$1,000, Solid Silver Medal of Excellence, invite to CASE Annual Mtg
 • American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF
 • Intel Excellence in Computer Science Award --- \$200 & certificate
 • University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Computer Science
- 3087 LS The Effect of a Known Allelopathic Chemicals (Juglone) on Coastal Marine Chlorophytes
 New London, Science and Technology Magnet HS, Teacher - Charles Mulligan
 Renandy Ledoux, New London 10
 Awards: Honors = 3
- 3088 LS Effect of point of view on lasting empathy
 Woodbridge, Amity Regional High School, Teacher - Deborah Day
 Weixin Du, Bethany 11
 Awards: Honors = 3
- 3089 LS The Effect of Added External Chemicals on Inhibiting Population Growth of Cyanobacteria Within a Fertilizer-Runoff Environment
 Trumbull, Trumbull High School, Teacher - Steffanie Elkins
 Arnab Srivastava, Trumbull 10
 Awards: Honors = 2
 • Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- 3091 LS Utilization of Q-2 Pressure System in Preventing Pressure Ulcers for In and Out-Patient Therapies
 Woodbridge, Amity Regional High School, Teacher - Deborah Day
 Rohan Patel, Orange 12
 Awards: Honors = 2
- 3092 LS Caffeine's Effect on Anxiety in Teens
 Hamden, Hamden High School, Teacher - Sophia Michalatos
 Zoe Bassett, Hamden 10
 Awards: Honors = 3
 • American Psychological Association --- Certificate, \$25 gift card to Amazon given by CSEF

AWARDS

- 3094 LS The Application of Pyrethrin as an Organic Systemic Insecticide for *Acheta domestica*
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk Shadle
Brian Tormey, Fairfield 12
Awards: Honors = 2
- 3095 LS The effect of elevated atmospheric carbon dioxide levels on body size in *Drosophila melanogaster*
Darien, Darien High School, Teacher - Mr. David Lewis
Ari Singer-Freeman, Darien 11
Awards: Honors = 3
- 3096 LS The Effect of Mutations on *C. elegans* Resistance to Intoxication
Norwich, Norwich Technical High School, Teacher - Dr. Jesse Morin
Ryan Stollman, Colchester 11
Awards: Honors = 2
- 3097 LS The Effect of Rising Water Temperature and Decreasing pH on *Vibrio Cholerae* Cases
Redding, Joel Barlow High School, Teacher - Dr. Katherine Nuzzo
Samantha Ballas, Easton 11
Awards: Honors = 3
- 3098 LS Developing a Spatial Model of Invasive Spread in Response to Climate Change
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk Shadle
Tomas Koeck, Fairfield 12
Awards: Honors = 2
• Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- 3099 LS The Effects of Natural Organic Compounds on the Inhibition of *Bacillus Subtilis* Biofilm Growth
West Hartford, Hebrew High School of New England, Teacher - Matthew Camarata
Batya Koenigsberg, New Haven 10
Awards: Honors = 2
- 3100 LS Natural antimicrobials: Alternatives to antibiotics in the control of ear infections
Glastonbury, Glastonbury High School, Teacher - Mr. Jerome Maas
Athulya Narayanan, Glastonbury 10
Awards: Honors = 3
• Connecticut Academy of Audiology --- \$200 Award HS- For Excellence in Audiology and Acoustics, opport. to shadow an audiologist
- 3101 LS Evaluation of *Caenorhabditis elegans* as a Bioindicator of Soil Toxicity via Chemotaxis Assay of Anthronilic Acid
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk Shadle
Connor Anderson, Stratford 12
Awards: Honors = 2
- 3102 LS Influence of Climate on the Decline of *Fraxinus americana*
Redding, Joel Barlow High School, Teacher - Katherine Nuzzo
Sean Mullin, Redding 10
Awards: Honors = 2
- 3103 LS Implicating the Tolerance of Glyphosate on *Artemisia Vulgaris*
New London, Science and Technology Magnet HS, Teacher - Mr. Mulligan
Tori Johnston, Waterford 11
Awards: Honors = 2
• Banning Family Life Science Award --- For excellence in invasive species research, \$100 cash
- 3104 LS Using Connectivity Data to Remap the Mouse Brain
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Jacob Gross, Woodbridge 11
Awards: Honors = 2

- 3106 LS Reactivity and Stability Analysis of Metal Organic Frameworks(MOFs)
Watertown, The Taft School, Teacher - Richard Kyung
Yejin Kim, Watertown 11
Awards: Honors = 2
- 3107 LS Measuring the Effect of Stock Market Closing Prices on Performance of Incumbent or Incumbent Party Presidential Candidates
(2004, 2008, & 2012 Elections) Using Time Series Analysis
Darien, Darien High School, Teacher - Mrs. Christine Leventhal
Johnathan Stimpson, Darien 12
Awards: Honors = 3
- 3108 LS Heat from Global Warming Affecting Bioluminescence in *Pyrocystis fusiformis*
Hamden, Sacred Heart Academy, Teacher - Mrs. Susan Nelson
Julianna Milidantri, Durham 9
Awards: Honors = 2
 - Sister Mary Christine Life Sciences Award --- \$150 for excellence in the life sciences by a catholic high school project
 - Yale Peabody Museum --- Family “six-pack” of free passes to the Yale Peabody Museum
- 3109 LS Platelet Membrane Coating Bio-interfacing of Pravastatin to Increase Removal of Arterial Plaque
Greenwich, Greenwich High School, Teacher - Mr. Bramante
Haley Stober, Old Greenwich 11
Awards: Honors = 1
 - Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 - UTC Aerospace Systems Awards for Excellence in Engineering --- Finalist - Engineering Senior High - CSF Medallion
 - Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- 3110 LS Effects of Feces Deposition in Natural Refuges on Common Bed Bug
Woodbridge, Amity Regional High School, Teacher - Ms. Deborah Day
Sarah Saxe, Woodbridge 12
Awards: Honors = 3
- 3111 LS Effects of Climate Change and pH Change on *Daphnia* Population Size and in turn Complete Freshwater Aquatic Ecosystems
Redding, Joel Barlow High School, Teacher - Dr. Katherine Nuzzo
Jenna Ledbetter, Redding 12
Awards: Honors = 2
- 3112 LS Determining the Most Distracting of the Five Traditional Senses from Feelings of Pain
West Hartford, Hebrew High School of New England, Teacher - Mr. Camarata
Ariella Snyder, West Hartford 10
Awards: Honors = 2
- 3113 LS Anticorrosive Coatings on AZ31 Magnesium Alloy to Reduce Degradation Rate for Metallic Medical Implants
Greens Farms, Greens Farms Academy, Teacher - Mathieu Freeman
Anish Kosanam, Stamford 12
Awards: Honors = 2
 - U.S. Metric Association --- Certificate & \$25 Amazon gift card given by CSEF
 - American Society for Metals - Hartford Chapter --- \$100 Check
- 3114 LS A Novel Study on the Membrane Interactions of Bovine Alpha-Lactalbumin and Oleic Acid Complex on Tumor Cells to Induce
Lysosomal Cell Apoptosis
New Haven, Engineering Science University Magnet School, Teacher - Roger Rushworth
Prastik Mohanraj, Ansonia 10
Awards: Honors = 3
 - CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- 5th Place High School - Plaque, Medallion
- 3115 LS Can Video Games Boost Intelligence in Children?
Suffield, Suffield High School, Teacher - Mitchell Charkiewicz
Leroy Lawson, West Suffield 10
Awards: Honors = 3

AWARDS

- 3116 LS Studying Picture Quality: Evaluation of Pixels in Pictures Taken on the iPhone 7+ Camera, iPhone 6+ Camera and Snapchat Camera.
Bridgeport, Fairchild Wheeler Magnet High School, Teacher - Ms. Warner
Jordan Chisholm, Bridgeport 11
Awards: Honors = 3
- 3117 LS Targeted Anticancer Properties of Honey Bee Melittin via Cell Surface Lipid Disruption
Greenwich, Greenwich High School, Teacher - Mr. Bramante
Dante Grace Minichetti, Greenwich 11
Awards: Honors = 1
- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 - Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
 - University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Cell and Molecular Biology
- 3118 LS Limiting our Exposure to Radio Frequency Radiation
Trumbull, Trumbull High School, Teacher - Steffanie Elkins
Srishti Pithadia, Trumbull 10
Awards: Honors = 3
- 3119 LS PAD4 Inhibition: A Novel Treatment for Rheumatoid Arthritis
Hamden, Hamden High School, Teacher - Mr. Danny Martins
Akshar Agarwal, Hamden 10
Awards: Honors = 2
- 3120 LS Determining Ideal Management Strategy for Controlling Varroa Mite Levels
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Thomas Livesay, Woodbridge 10
Awards: Honors = 2
- 3121 LS Enzymatic Reactions at Nanoparticle surfaces: Studying the dependence of substrate accessibility on the efficiency of enzymatic ligation
Glastonbury, Glastonbury High School, Teacher - Ms. Diane Pintavalle
Jamie Cheung, Glastonbury 12
Awards: Honors = 3
- 3122 LS The Effect of Acid Rain on the Regeneration of Nematostella Vectensis
Windsor, Academy of Aerospace and Engineering, Teacher - Dr. Aramli
Kyla Thomas, Hartford 11
Awards: Honors = 3
- 3123 LS Bacterial Analysis of Kefir Products
New London, Science and Technology Magnet HS, Teacher - David Brown
Yasmin Aguilar, New London 11
Awards: Honors = 2
- Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to dinner
- 3124 LS The Effect of Asparagus cochinchinensis Root on Mouse Lewis Lung Carcinoma Growth
Windsor, Greater Hartford Academy of Math and Science, Teacher - Dr. Lili Aramli
Brianna Mailloux, Suffield 11
Awards: Honors = 3
- 3125 LS PDE-4 Inhibitor-Assisted Antibiotic Suppression of Borrelia Biofilm Growth for Treatment of Chronic Lyme
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Sophia Chow, Old Greenwich 11
Awards: Honors = 1
- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 - Alexion Biotechnology Awards --- 4th Place- Biotechnology Senior High- \$200 & plaque
 - Society for In Vitro Biology --- Certificate and \$25 Amazon gift card given by CSEF

- 3126 LS An investigation into the use of fruit peel filters to reduce the level of water contamination.
Fairfield, Fairfield College Preparatory School, Teacher - Ms. Kiel
Jonathan Siveyer, Monroe 12
Awards: Honors = 1
- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 - Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
 - Energize CT/eesmarts Future Sustainability Awards --- 2nd Place High School - \$300 Cash and Plaque
 - GENIUS Olympiad --- GENIUS Olympiad Competition for 2nd Place HS Future Sustainability
- 3127 LS A customizable, 9DB1 Deoxyribozyme based system for the controlled production of proteins via artificial logic on the molecular scale
Greenwich, Greenwich High school, Teacher - Andrew Bramante
Collin Marino, Greenwich 10
Awards: Honors = 2
- 3128 LS The Effect of Culturing Conditions on Lipid Production in Marine Microalgae
New London, Science and Technology Magnet HS, Teacher - Charles Mulligan
Chloe Sherman-Watson, New London 12
Awards: Honors = 3
- 3129 LS Utilizing a Freshwater Bioreactor as an Effective Carbon Dioxide Sequestration Technique
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk Shadle
Daniel Schaefer, Stratford 12
Awards: Honors = 2
- Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
 - Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, air pollution related
- 3130 LS The Role of Acidity in Phosphorus Fixation of Phaseolus Vulgaris through Induced Systemic Resistance by Inoculation of Azospirillum Brasilense
Redding, Joel Barlow High School, Teacher - Dr. Katherine Nuzzo
Melani Zuckerman, Redding 11
Awards: Honors = 3
- 3131 LS Viability of Cloud-Bacteria Transportation
Windsor, Greater Hartford Academy of Math and Science, Teacher - Dr. Lili Aramli
Jason Vailionis, Rocky Hill 12
Awards: Honors = 3
- Mu Alpha Theta --- Certificate, \$25 Amazon gift card given by CSEF
- 3132 LS Improving Cardiac Motion Correction in Cardiac SPECT
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Kevin Zhao, Woodbridge 11
Awards: Honors = 3
- 3133 LS The Effect of Sun vs. Shade on the Decomposition Rate of Meat Through Carbon Dioxide Levels
New London, Science and Technology Magnet HS, Teacher - David Brown
Sydney Ford, Taftville 11
Awards: Honors = 3
- 3134 LS The Effect of Music on Reading Comprehension and Mathematical Calculations
Hamden, Hamden High School, Teacher - Sophia Michalatos
Linnea Sirch, Hamden 10
Awards: Honors = 3
- 3135 LS Correlations Between Specific Gut Flora and Different Body Mass Type Changes
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Jacob Feuerstein, Woodbridge 10
Awards: Honors = 2
- Mu Alpha Theta --- Certificate, \$25 Amazon gift card given by CSEF

AWARDS

- 3136 LS Improvements on design of biologically inspired modular prosthetics for general use.
Greens Farms, Greens Farms Academy, Teacher - Mathieu Freeman
Robert Marcus, New Canaan 12
Awards: Honors = 3
• Barnes Aerospace Applied Technology Awards --- 3rd Place High School - \$ 200 and Plaque, Medallion
- 3137 LS The Use of a Hydroxybenzene Group Variant, Grapefruit Seed Extract, as an Alternative Natural Pesticide for Contemporary Chemicals in Modern Agriculture
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk Shadle
Kyle Rosenfeld, Fairfield 12
Awards: Honors = 2
• Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
• ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
- 3138 LS The Relationship Between Intelligence Quotient, Phonological Awareness, and Reading Cognition: A Behavioral and Neuroimaging Analysis
Redding, CT STEM Fair, Teacher - Deborah Day
James He, Woodbridge 12
Awards: Honors = 2
- 3139 LS Does the bacteria in the *Drosophila melanogaster* gut affect the severity of Type 2 Diabetes symptoms?
Norwich, Norwich Technical High School, Teacher - Dr. Morin
Gianpierre Roche, Willimantic 11
Awards: Honors = 3
- 3140 LS Developing a Robust Phylogeny of Xyridaceae and Closely Related Families
Darien, Darien High School, Teacher - Mrs. Leventhal
Will Granath, Darien 12
Awards: Honors = 3
- 3142 LS Adherence Rates of *Escherichia coli* to Mono-filament, Multi-filament, and Barbed Sutures
Hamden, Sacred Heart Academy, Teacher - Dr. Sibani Sengupta
Adalyn Schommer, Cheshire 9
Awards: Honors = 2
• Society for In Vitro Biology --- Certificate and \$25 Amazon gift card given by CSEF
- 3143 LS Investigation of Effectiveness of Bowel Preparations and Physician Rating for Maximum Visibility in Colonoscopy Procedures to Increase the Detection Rate of Colorectal Cancer
Westport, Staples High School, Teacher - Ms. Thompson
Sarah Barnett, Westport 12
Awards: Honors = 2
- 3144 LS Gender Identity Disorder
Norwich, Norwich Technical High School, Teacher - Lisa Elliott
Arkady Bibeau, Lebanon 12
Awards: Honors = 3
- 3146 LS Analyzing Rhythmic Processing Abilities in Children Ages Five to Fifteen
Ridgefield, Ridgefield High School, Teacher - Ryan Gleason
Nora Maerean, Ridgefield 11
Awards: Honors = 2
• American Psychological Association --- Certificate, \$25 gift card to Amazon given by CSEF
- 3147 LS Cloning of the IRES Gene for Targeted Viral Therapy
Darien, Darien High School, Teacher - David Lewis
Colin Banks, Darien 12
Awards: Honors = 2
- 3148 LS An Athlete's Guide to Picking a Marker to Write on Their Skin with
Hamden, Sacred Heart Academy, Teacher - Mrs. Nelson
Brisa Mendoza, Hamden 9
Awards: Honors = 3

- 3149 LS Permanent Inactivation of the HIV Provirus via CRISPR Gene-Editing
Hamden, Hamden High School, Teacher - Sophia Michalatos
Aakshi Agarwal, Hamden 12
Awards: Honors = 1
 - Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 - CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- 3rd Place High School - \$ 300 and Plaque, Medallion
- 3150 LS A New Solution for Prevention of Symptoms of Lactose Intolerance
Glastonbury, Glastonbury High School, Teacher - Diane Pintavalle
Katherine Vartenigian, Glastonbury 12
Awards: Honors = 2
- 3151 LS A study of circadian genetics and abiotic stress towards sustainable agriculture
New Haven, Wilbur Cross High School, Teacher - Prof. Joshua Gendron
Maya Geradi, New Haven 11
Awards: Honors = 1
 - Pfizer Life Sciences Awards --- 3rd Place- Life Sciences Senior High- \$200 & Plaque
 - CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- 1st Place High School - \$500 and Plaque, Medallion and trip to compete at Intel Int. Sci. & Eng. Fair
 - H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Urban School Challenge 1st HS- \$1,000, Silver Medal of Excellence, Invite to CASE Annual Mtg & \$500 cash award to School Science Department for equipment/supplies
 - University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Microbiology
 - Connecticut Nurserymen's Foundation, Inc. --- \$200 Cash Award & paid registration to the CT Nursery and Landscape Summer Meeting
- 3501 LST Depressions Not A Choice, End The Stigma
Norwich, Norwich Technical High School, Teacher - Lisa Elliott
Brittany Cassidy, Norwich 12 Faith Stimson Moosup 12
Awards: Honors = 2
- 3503 LST Panic Disorder
Norwich, Norwich Technical High School, Teacher - Lisa Elliott
Miranda Marriott, Griswold 12 Neely Henderson Oakdale 12
Awards: Honors = 2
- 3504 LST An Evaluation of Varying Reaction Times from Mobile Phones and Its Practical Application
Suffield, Suffield High School, Teacher - Mitchell Charkiewicz
Aidan Werenski, Suffield 10 John Dion Suffield 10 Ziad Hassan Suffield 10
Awards: Honors = 3
- 3505 LST The survivability of the salt marsh *Melampus bidentatus* snails
New London, Science and Technology Magnet HS, Teacher - Mr. Brown
Giselle Malloy, New London 11 Trent Matteau Ledyard 11
Awards: Honors = 3
- 3506 LST Exploration of Intermittent Explosive Disorder and Stigmas
Norwich, Norwich Technical High School, Teacher - Lisa Elliott
Alexis Verrette, Danielson 12 Krystal Reyes Norwich 12
Awards: Honors = 2
- 3507 LST The Investigation of the Effectiveness of Triclocarban as an Antibacterial Agent
Windsor, Greater Hartford Academy of Math and Science, Teacher - Dr.Lili Aramli
Alexa Wilson, Rocky Hill 11 Arshad Bhura Rocky Hill 11 Malavika Madan South Windsor 11
Awards: Honors = 1
 - Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion
- 3508 LST Investigation of the Tenascin-X Protein and its Role in Ehlers-Danlos Syndrome
Norwich, Norwich Technical High School, Teacher - Dr. Jesse Morin
Brianna Dziekan, Baltic 11 Athena Missios Uncasville 11
Awards: Honors = 2

AWARDS

- 3509 LST Effect of Popular Acidic Drinks on Human Tooth Enamel and Use of Common Chemical Additives to Reduce Enamel Erosion
Trumbull, St. Joseph High School, Teacher - Daniel T. Walsh, PhD
Cheng Chang, Stratford 11 Hao Zhang Bridgeport 12
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion
- 3510 LST Biorock: Calcium Carbonate Deposition and Oyster growth in the Fishers Island Sound
Fishers Island, Fishers Island School, Teacher - Carol Giles
Charles Snyder, Stonington 12 Thaddeus Allen New London 12
Awards: Honors = 2
- 3511 LST The Effect of Enzyme Treatment on Soil Bacterial Growth
Norwich, Norwich Technical High School, Teacher - Aleatha Pelloni
Samantha Grott, Bozrah 10 Hailey Bill Baltic 10 Emerald Haller Preston 10
Awards: Honors = 2
- 3513 LST Analysis of Environmental Stress: The effect on Restriction Enzyme Analysis of Asterina DNA
Greenwich, Brunswick School, Teacher - Dana Montanez
Chris Burdick, Riverside 11 Greyson Wolfram Riverside 11 Matt Restieri Riverside 11
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion
- 3514 LST The Effect of Livestock Supplements on Soil Microbes
Norwich, Norwich Technical High School, Teacher - Aleatha Palloni
Ashley Czech, Colchester 10 Gabrielle Martin North Stonington 10
Awards: Honors = 3
- 3515 LST Environmental Stresses on the Rate of Evolution of Escherichia coli to Antibiotics
Windsor, Greater Hartford Academy of Math and Science, Teacher - Lili Aramli
Preksha Gupta, Rocky Hill 11 Artem Boyko Manchester 11 Zirui Hao Rocky Hill 11
Awards: Honors = 3
- 3516 LST The effects of salinity on marsh grass
New London, Science and Technology Magnet HS, Teacher - Charles Mulligan
Efrain Santiago III, New London 12 Aimee Riddick New London 12
Awards: Honors = 2
- 3517 LST Testing Drosophila melanogaster Flies as a Model to Study Alcohol Addiction
Norwich, Norwich Technical High School, Teacher - Jesse Morin
Kassidy Stackpole, Uncasville 11 Travis Nordgren Griswold 11
Awards: Honors = 3
- 3518 LST A Statistical Analysis of the Inflation of Atmospheric CO₂ Levels and the Correlation Between Sea Ice Concentration and Aptenodytes Forsteri Breeding Patterns
Redding, Joel Barlow High School, Teacher - Dr. Nuzzo
Ella Gaspar, Redding 11 Taylor Macchia Wilton 11
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion
- 3520 LST An investigation of Nannochloropsis oculata / Yeast Biofuel Efficiency
Suffield, Suffield High School, Teacher - Mitchell Charkiewicz
Jason Werenski, Suffield 12 Yash Mehta Suffield 12 Tristan Evans Suffield 12
Awards: Honors = 2
• Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion
- 3521 LST The Effects of Fertilizers on Soil Bacteria
Norwich, Norwich Technical High School, Teacher - Mrs. Pelloni
Aaron Toof, Voluntown 10 John Coleman Norwich 10
Awards: Honors = 2

- 3522 LST The effects climate change variables have on genetic inheritance of butterfly wing patterns
Windsor, Greater Hartford Academy of Math and Science, Teacher - Dr. Aramli
Alexandra Smith, Suffield 11 Sreenidhi Nair West Hartford 11
Awards: Honors = 2
- 3523 LST The Effect of Different Solid Medias on the Amount of Antibiotic-Producing Bacteria Isolated from Soil Samples
Norwich, Norwich Technical High School, Teacher - Aleatha Pelloni
Nathanael Padgett, Lebanon 10 Edward Russell Colchester 10
Awards: Honors = 2
- 3524 LST The Effect of Predation and Availibility of Resouces on Habitat Selection of Oniscus asellus
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Joseph Benedetti, Bethany 10 Austin Gilbride Woodbridge 10
Awards: Honors = 3
- 3525 LST Methylmercury concentrations in Fish Tissue: A comparative analysis of Long Island Sound v. the Atlantic Ocean
Greenwich, Brunswick School, Teacher - Dana Montanez
Alberto Delgado, Riverside 10 Ryan Mulshine Greenwich 10
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 3rd Place - Life Sciences Senior High Team - Plaque
 - Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- 3526 LST Changing Attitudes Towards Panic Disorders
Norwich, Norwich Technical High School, Teacher - Lisa Elliott
Ashley Roch, Gales Ferry 12 Qameron Mendez-Neff Quaker Hill 12
Awards: Honors = 2
- 3529 LST The Effect of Soil Moisture Content on the Isolation of Motile Bacteria
Norwich, Norwich Technical High School, Teacher - Aleatha Pelloni
Kelsey Williams, Gales Ferry 10 Douglas Rediger Gales Ferry 10 Joshua McConnell Baltic 10
Awards: Honors = 2
- 3530 LST Analysis of the Effects of Selenastrum capricornutum on the pH of Freshwater Marine Environments
Redding, Joel Barlow High School, Teacher - Dr. Katherine Nuzzo
Alex Palvinski, Redding 11 Michael Klein Wassink Redding 11
Awards: Honors = 1
- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion
- 3532 LST The construction of an LCHAD Deficiency Model System and tagging of the HADHA enzyme using C. elegans
Norwich, Norwich Technical High School, Teacher - Jesse Morin
Courtney Michaud, Norwich 11 Kyle Tempesta Uncasville 11
Awards: Honors = 2
- 3533 LST A Novel Approach Using Biochar in Sand Reactors to Accelerate Biodegradation of Naphthenic Acids in the Process of Bitumen Extraction via Oil Sands
New Haven, Engineering Science University Magnet School, Teacher - Roger Rushworth
Sumanth Kondapalli, Milford 10 Tirth Patel New Haven 11
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High Team- \$300 (split) & Plaque
 - CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- Senior High Finalist - Medallion
 - Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- 3534 LST Does Makeup Grow on Bacteria?
Bridgeport, Bridgeport Military Academy, Teacher - Samantha Lasko
Kiara Corporan, Bridgeport 9 Suany Ulloa Bridgeport 9
Awards: Honors = 3
- 3535 LST Stomping the Stigma of Schizophrenia
Norwich, Norwich Technical High School, Teacher - Lisa Elliott
Kimaela Estelan, Norwich 12 Anjoli Kamuda Oakdale 12
Awards: Honors = 2

AWARDS

- 3536 LST How much do we need to dilute the solution for it to still perm eyelashes?
Danbury, Abbott Technical High School, Teacher - Andrew Ipkovich
Kayla Ludovicy, New Milford 10 Cicily Telesco Southbury 10
Awards: Honors = 3
- 3537 LST The Effects of Different Fertilizer Levels on the Development and Chlorophyll Density in Solanum Lycopersicum var. Cerasiforme (Cherry Tomato).
New London, Science and Technology Magnet HS, Teacher - Charles Mulligan
Leon Bolle, Groton 12 Aries Santiago New London 11
Awards: Honors = 3
- 3538 LST PTSD Stigma in Veterans
Norwich, Norwich Technical High school, Teacher - Lisa Elliott
Zachariah Meuse, Ledyard 12 Owen Reynolds Uncasville 12
Awards: Honors = 2
- 3539 LST Passive Solar Heating
Hartford, Prince Technical High School, Teacher - Paula Butterfield
Zukora Burke, Hartford 10 Fernanda Hernandez Hartford 10
Awards: Honors = 3
- 3540 LST Determination of light Wave Length Effect on Gracilaria tikvahiae Growth Rate
Bridgeport, Bridgeport Regional Aquaculture Center - BCF, Teacher - Holly Turner
Damon Sherwood, Bridgeport 10 Juan Alvarez Bridgeport 10
Awards: Honors = 3
- 3541 LST The Effect Half and Full Day Illumination Periods Have On Aquaponical and Conventional Methods
New London, Science and Technology Magnet HS, Teacher - Mr. Mulligan
Xaryia Melendez, Colchester 10 Bria Fielding New London 10
Awards: Honors = 3
- Connecticut Science Supervisors Association --- \$125 for a high school project
- 3542 LST Human fingerprints and Gecko Setae: A fusion of configurations to create a super-grip, non-slip surface
Greenwich, Brunswick School, Teacher - Dana Montanez
Thacher Scannell, Stamford 11 Avi Mukherjee Stamford 11
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High Team- \$500 (split) & Plaque
 - Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion

Physical Sciences

- 4001 PT Using Flocculation to Extract Chromium 6 From Water
Bethany, Amity Reg Middle School - Bethany Campus, Teacher - Kevin Berean
Wendy Zhang, Woodbridge 8 Claire Yuan Woodbridge 8
Awards: Honors = 2
- Barnes Aerospace Applied Technology Awards --- 2nd Place Middle School - \$200 and Trophy, Medallion
 - Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
 - Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion
- 4002 PT Future of Filtration
New Canaan, St. Aloysius School, Teacher - Mrs. Phillips
Molly McAndrew, Stamford 8 Veronica Butler South Salem 8 Helen Mahoney Stamford 8
Awards: Honors = 2
- 4003 PT Apple Oxidation
Danbury, St. Joseph School, Teacher - Lydia Jabbour
Nora Yastremski, Danbury 8 Abby Giansiracusa Danbury 8
Awards: Honors = 2

- 4004 PT Water Turbine
Bethany, Amity Reg Middle School - Bethany Campus, Teacher - Kevin Berean
Christopher Hill, Woodbridge 8 Benjamin Lee Woodbridge 8
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion
 - Energize CT/eesmarts Alternative/Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy
 - UTC Aerospace Systems Awards for Excellence in Engineering --- Finalist - Engineering 8th grade - CSF Medallion
 - Dreams Unlimited Award --- \$200 Cash Award + Certificate
- 4005 PT Paper Towel Strength
Meriden, ACES Thomas Edison Middle School, Teacher - Todd Solli
Tyler Curtiss, Middletown 8 Garrett Kronenberger Middletown 8
Awards: Honors = 3
- 4007 PT Plantaid
Bethany, Amity Reg Middle School - Bethany Campus, Teacher - Kevin Berean
Evan Gorelick, Woodbridge 8 Peter Savelyev Woodbridge 8
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- 3rd Place- Physical Sciences MS Team- trophy, invite to compete Broadcom MASTERS
 - Xerox Computer Science Awards --- 2nd Place Middle School - \$200, Trophy and Medallion
- 4008 PT Energizing Electrolytes
Danbury, St. Gregory the Great School, Teacher - Mrs. Christine Fahey
Lindsay Ward, Danbury 8 Olivia Halas Danbury 8
Awards: Honors = 2
- 4009 PT Take Cover
Greenwich, Greenwich Catholic School, Teacher - Mrs. Lutz
Joshua DeSouza, Stamford 8 William Catalani Greenwich 8
Awards: Honors = 2
- 4010 PT Using Nanotechnology to Clean Oil Spills
Bethany, Amity Reg Middle School - Bethany Campus, Teacher - Kevin Berean
Aannah Malik, Woodbridge 8 Kathleen Inclima Woodbridge 8
Awards: Honors = 2
- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion
 - Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
 - National Oceanic and Atmospheric Administration --- Certificate and medallion, and \$25 Amazon gift card given by CSEF
- 4011 PT To Sensor or Not to Sensor
Meriden, ACES Thomas Edison Middle School, Teacher - Todd Solli
Madison Ehmka, Meriden 8 Chloe DiChello Meriden 8
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion
- 4012 PT “Got Plastic?”
Plantsville, J.F. Kennedy Middle School, Teacher - Mrs. Pepin
Lillian Eaccarino, Southington 7 Abigail Mullins Plantsville 7
Awards: Honors = 3
- 4013 PT Light Intensity and Photosynthesis: How different colors of light and their intensities affect photosynthesis?
Windsor, Madina Academy, Teacher - Saqib Chariwala
Sakinah Caesar, Simsbury 7 Sheza Chaudhry Windsor Locks 7
Awards: Honors = 2
- Alexion Biotechnology Awards --- Finalist - Biotechnology 7th grade - CSF Medallion
 - Association for Women Geoscientists --- Certificate & \$25 gift card to Amazon given by CSEF
- 4014 PT Fats In Cooking Oils
Meriden, ACES Thomas Edison Middle School, Teacher - Todd Solli
Ariana Alston, Meriden 7 Selena Galvan Meriden 7
Awards: Honors = 3
- Alexion Biotechnology Awards --- Finalist - Biotechnology 7th grade - CSF Medallion
 - Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner

AWARDS

- 4015 PT The Effect of Temperature on Solar Cells
Danbury, St. Gregory the Great School, Teacher - Mrs. Christine Fahey
Thomas Fahey, Danbury 8 Eric McNamara Danbury 8
Awards: Honors = 2
• Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- 4016 PT How Does Temperature Affect the Elasticity of Rubber Bands?
Norwalk, Roton Middle School, Teacher - Stephanie Tom
Juan Urresta, Norwalk 7 Max Ginsberg Norwalk 7
Awards: Honors = 3
- 4017 PT The Heat Is On!
Meriden, ACES Thomas Edison Middle School, Teacher - Todd Solli
Adriana Aponte, Meriden 8 Majda Adnane Meriden 8
Awards: Honors = 3
- 4018 PT Strength of Bridges
Plantsville, J.F. Kennedy Middle School, Teacher - Mrs. Pepin
Kajetan Naworol, Milldale 8 Pio Castellano Plantsville 8
Awards: Honors = 3
- 4019 PT Can you hear what the sound polluting?
Bridgeport, High Horizons Magnet School, Teacher - Portia Scott-Thiam
Joshua Green, Bridgeport 8 Jada Daley Bridgeport 8
Awards: Honors = 3
- 4020 PT Investigating Novel Methods of Generating Electricity Using a Double Plated Magnetic Generator with Springs Compared to a Miniature Axial Rounded Tip Tidal Stream Generator
Windsor, Madina Academy, Teacher - Saqib Chariwala
AlYaman Zoghol, Enfield 8 Ahmad Mohammed Windsor 8
Awards: Honors = 1
• Pepsico Physical Sciences Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion
• Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion
• UTC Aerospace Systems Awards for Excellence in Engineering --- 5th Place- Engineering 8th grade- trophy
• United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
• Constellation, an Exelon Company --- 1st: \$100.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
- 4021 PT The Energy Band
Bethany, Amity Reg Middle School - Bethany Campus, Teacher - Mr. Kevin Berean
Kabir Khwaja, Woodbridge 8 Samuel Green Bethany 8
Awards: Honors = 1 • Pepsico Physical Sciences Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion
• Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion
• Energize CT/esmarts Alternative/Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- 4022 PT Do Antennas Love Geometry?
Danbury, St. Gregory the Great School, Teacher - Mrs. Christine Fahey
Stephanie Antonios, Danbury 7 Courtney- Rae McCormack Danbury 7 Cassandra Logan New Milford 7
Awards: Honors = 3
- 4023 PT How Does the Temperature of a Tennis Ball Affect the Height of It's Bounce?
Bridgeport, Blackham School, Teacher - Christine Kasten
Guilherme Pinto, Bridgeport 7 Christopher Schramm Bridgeport 7
Awards: Honors = 3
- 4024 PT Sturdiest of Them All
Bridgeport, High Horizons Magnet School, Teacher - Portia Scott-Thiam
Kayla Keddo, Bridgeport 8 Dea'ja Jones Bridgeport 8
Awards: Honors = 2
• Ct Architecture Foundation Award Name: The William M. Mack, AIA Award --- \$250 Gift Certificate to Barnes and Noble from the Connecticut Architecture Foundation, William M. Mack, AIA Award.

- 4025 PT The Clean Drain
Bethany, Amity Reg Middle School - Bethany Campus, Teacher - Kevin Berean
William Livesay, Woodbridge 8 Joshua Feuerstein Woodbridge 8 Arnav Paliwal Woodbridge 8
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion
 - Barnes Aerospace Applied Technology Awards --- 1st Place Middle School - \$300 and Trophy, Medallion
 - Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
 - UTC Aerospace Systems Awards for Excellence in Engineering --- 4th Place- Engineering 8th grade- trophy
 - TurnKey Compliance Solutions Environmental Awards --- \$200 Cash Award Middle School- For excellence in environmental sciences
- 4026 PT Can U(V) See the Light
Stratford, St. Mark School, Teacher - Mrs. Lynn Olins
Liam Millott, Milford 8 Matthew Morales Stratford 8
Awards: Honors = 2
- 4027 PT Mars Exploration
New Canaan, St. Aloysius School, Teacher - Deborah Phillips
Kaloyan Dimitrov, Norwalk 7 Andrew Tully Norwalk 7 Alex Lanzillotti Stamford 7
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- 1st Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
 - UTC Aerospace Systems Awards for Excellence in Engineering --- 3rd Place- Engineering 7th grade- \$100 & trophy and Invitation Compete in Broadcom MASTERS
 - ISA - International Society for Automation - Ct. Valley Section --- 1st - \$125 award
- 4028 PT A Helping Hand
Greenwich, Greenwich Catholic School, Teacher - Mrs. Lutz
Gianna Saviano, Stamford 8 Sofina Tillman Singh Stamford 8
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- 2nd Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
 - IEEE, Connecticut Section --- \$250 Honors Award -Junior
 - John S. Kendall Memorial Awards --- \$300 John S. Kendall Award for Excellence In Mechanical Engineering - Middle School
- 5001 P7 Building Tesla Coils
Bozrah, Fields Memorial School, Teacher - Mrs. Brown
Lucas Santo, Bozrah 7
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion
 - UTC Aerospace Systems Awards for Excellence in Engineering --- 2nd Place- Engineering 7th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS
 - The Children's Museum --- 1 family 4-Pack of Admission Passes to the Children's Museum
 - Wisner Award --- \$250 cash and plaque
- 5002 P7 Mass Maglev Manufacturing
Greenwich, Greenwich Catholic School, Teacher - Carol Lutz
Patrick McHugh, Stamford 7
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- 1st Place- Physical Sciences 7th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
 - Energize CT/eesmarts Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion
- 5003 P7 Wind Energy? I'm a Big Fan!
Danbury, St. Gregory the Great School, Teacher - Mrs. Christine Fahey
Anna Flaherty, New Fairfield 7
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- 2nd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS
 - Energize CT/eesmarts Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion
 - Stanley Lessoff Award for Excellence In Analytical Technique --- \$100 Cash and Plaque

AWARDS

- 5004 P7 Environmental Monitoring System for Dog Safety
Bozrah, Fields Memorial School, Teacher - Mrs. Brown
Morgan Tainter, Gilman 7
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion
 - Xerox Computer Science Awards --- 3rd Place Middle School- \$100, Trophy, Medallion
 - UTC Aerospace Systems Awards for Excellence in Engineering --- Finalist - Engineering 7th grade - CSF Medallion
 - Society of Women Engineers - Hartford Section --- Scientific Calculator
 - Connecticut Science Supervisors Association --- \$125 for a middle school project
 - John B. Trevor Award in Electrical Engineering --- \$500 cash award for an innovative electronic or electrical project
- 5005 P7 Gravity and Air Resistance
Meriden, ACES Thomas Edison Middle School, Teacher - Todd Solli
Nicole Grabinski, Middletown 7
Awards: Honors = 3
- 5006 P7 What's Blocking Your Wi-Fi Signal?
West Hartford, St. Timothy Middle School, Teacher - Danielle Locke
Alex Rosenthal, West Hartford 7
Awards: Honors = 2
- 5007 P7 Cleaning Coins
Bridgeport, Park City Prep Charter School, Teacher - Vicky Boudreau
Parker Savo, Bridgeport 7
Awards: Honors = 3
- 5008 P7 Orb Characteristics and Containment
Bozrah, Fields Memorial School, Teacher - Mrs. E. Brown
Elijah Ramthun, Bozrah 7
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- 5th Place- Physical Sciences 7th Grade Individual - trophy
 - People's United Bank Mathematics Awards - with ATOMIC --- 1st Place Middle School- \$150 from ATOMIC, and Trophy, \$300 from People's United Bank
 - UTC Aerospace Systems Awards for Excellence in Engineering --- 4th Place- Engineering 7th grade- trophy
 - Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & trophy and Invitation Compete in Broadcom MASTERS
 - Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Phys Science
- 5009 P7 Brownie Points: The effect of flours on brownies
West Hartford, Solomon Schechter Day School, Teacher - Gilah Barker
Harry Gold, West Simsbury 7
Awards: Honors = 2
- 5010 P7 Do Video Game Players Have Faster Reaction Times Than Non-Players?
Suffield, Suffield Middle School, Teacher - Mitchell Charkiewicz
Ayush Mehta, Suffield 7
Awards: Honors = 3
- 5011 P7 Bombs
Groton, Sacred Heart School, Teacher - Mrs. Rosha
Emma Reilly, Gales Ferry 7
Awards: Honors = 3
- 5012 P7 It is Rocket Science
Kensington, St. Paul School, Teacher - Ms. Michalak
Jack Szeghy, Southington 7
Awards: Honors = 2
- American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate

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- 5013 P7 The Amazing Magnetic Glove
Shelton, St. Joseph School, Teacher - Kieran Hyland
Kenny McGovern, Shelton 7
Awards: Honors = 3
- 5015 P7 Shapes of Parachutes
Bethel, St. Mary School, Teacher - Kate McDonald
Ricky Lawlor, Bethel 7
Awards: Honors = 3
- 5016 P7 Insulation Wars
Shelton, St. Joseph School, Teacher - Kieran Hyland
Mark MacDaniel, Derby 7
Awards: Honors = 2
- 5017 P7 Bisphenol A content in BPA free water bottles, canned food items, children's plastic connectable beads and plastic pen caps
Newtown, St. Rose of Lima School, Teacher - Mr Dalton
Irena Komninakas, Shelton 7
Awards: Honors = 1
• Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion
- 5018 P7 Building A Smarter Gutter
Bethel, St. Mary School, Teacher - Kate McDonald
Caroline Tucker, Danbury 7
Awards: Honors = 2
- 5019 P7 Eggceptional Geodes: An Eggsperiment
Danbury, St. Joseph School, Teacher - Lydia Jabbour
Bronwyn Hyland, New Fairfield 7
Awards: Honors = 1
• Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion
- 5020 P7 What's Your Boiling Point?
New London, St. Joseph School, Teacher - Tamara Hower
Isabella Pero, New London 7
Awards: Honors = 3
- 5021 P7 Greasy Times and Triple Enzymes
Meriden, St. Joseph School, Teacher - Mr. Timoty Coleman
Jake Ryder, Meriden 7
Awards: Honors = 2
- 5022 P7 Strength of Electromagnets
Groton, Sacred Heart School, Teacher - Larry Fitzgerald
Samuel Hammond, New London 7
Awards: Honors = 3
• UTC Aerospace Systems Awards for Excellence in Engineering --- Finalist - Engineering 7th grade - CSF Medallion
- 5023 P7 Sneaker Feature
Shelton, Shelton Intermediate School, Teacher - Denise Fix
Sofia Gasbarro, Shelton 7
Awards: Honors = 1
• Pepsico Physical Sciences Awards --- 3rd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS
• Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School, Physical Sciences
- 5024 P7 What Recyclable Material Makes the Best Insulator?
Southington, Southington Catholic School, Teacher - Pauline Pelczar
John Byrne, Southington 7
Awards: Honors = 2
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AWARDS

- 5025 P7 A study on soil product following bio degradation of Styrofoam by tenebrio
Danbury, Westside Middle School Academy, Teacher - Mr. Neuhausel
Cassandra Plank Pinho, Danbury 7
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- 4th Place- Physical Sciences 7th Grade Ind. - trophy
 - CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- 3rd Place Middle School - \$100 and Trophy, Medallion
 - Environmental Sciences Awards with CACIWC --- 2nd Place MS- \$200, Trophy, CACIWC gifts • Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion
 - Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp
- 5026 P7 Snap Crackle Pop
Southington, J.A. DePaolo Middle School, Teacher - Ms. Shea
Morgan Birdsey, Southington 7
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion
 - Henderson Award --- Certificate and \$25 Amazon Gift Card given by CSF
- 5028 P7 The Plentiful Popcorn Project
Woodbridge, Ezra Academy, Teacher - Dr. Tishkoff
Rachel Logue, Fairfield 7
Awards: Honors = 3
- 5029 P7 How Safe Is Your Water?
Stratford, St. Mark School, Teacher - Lynn Olins
Mya Zayas, Bridgeport 7
Awards: Honors = 2
- 5031 P7 The Unspillable Table Setting
Kensington, St. Paul School, Teacher - Miss Michalak
Meaghan Bertolami, Berlin 7
Awards: Honors = 2
- 5032 P7 Natural Power
Bridgeport, Multicultural Magnet School, Teacher - Ms. Ciuflea
John Paul Atehortua, Bridgeport 7
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion
 - Energize CT/eesmarts Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion
 - U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate
- 5033 P7 The IRON-ic Truth About Cereal
New London, St. Joseph School, Teacher - Tamara Howes
Liam Peters, East Lyme 7
Awards: Honors = 3
- 5034 P7 Ready, Set, Blast Off!
Bridgeport, John Winthrop School, Teacher - Susan Beres
Amanda Teixeira, Bridgeport 7
Awards: Honors = 2
- 5035 P7 Making Tie Dye Milk
Stratford, St. Mark School, Teacher - Lynn Olins
Michael LaMonica IV, Stratford 7
Awards: Honors = 3
- 5036 P7 What kind of water is the purest?
Meriden, St. Joseph School, Teacher - Timothy Coleman
Ryan Killeen, Meriden 7
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion

- 5037 P7 Going The Distance
Plantsville, J.F. Kennedy Middle School, Teacher - Mrs. Pepin
Vincent Fioriello, Plantsville 7
Awards: Honors = 3
- 5038 P7 Slip Hazard Alarm Robot--H2OhNobot
West Hartford, King Philip Middle School, Teacher - Robert Felekey
Theodore Zhang, West Hartford 7
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion
 - UTC Aerospace Systems Awards for Excellence in Engineering --- 1st Place- Engineering 7th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS
 - American Society of Safety Engineers, CT Valley Chapter --- \$100 grade 7-8 project
 - Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"
- 5039 P7 A Battery That Makes Cents
Bridgeport, Park City Prep Charter School, Teacher - Mrs. Boudreau
Emily Ramirez, Bridgeport 7
Awards: Honors = 2
- 5040 P7 What quantity of dimples on a golf ball best contributes to flight distance.
Plantsville, J.F. Kennedy Middle School, Teacher - Mrs. Pepin
Ethan Lebo, Southington 7
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion
- 5041 P7 Wave Generated Beach Erosion
Baltic, Sayles School, Teacher - Miss Roy
Abigail Staggs, Baltic 7
Awards: Honors = 3
- Association for Women Geoscientists --- Certificate & \$25 gift card to Amazon given by CSEF
- 5501 P8 Baking Vanilla Cupcakes with Different Ratios of Ingredients at Different Temperatures
Weston, Weston Middle School, Teacher - David Rosvally
Sophia Balotescu, Weston 8
Awards: Honors = 3
- 5502 P8 Rusty Steel: How Acids Affect the Rate of Corrosion
East Hartford, St. Christopher School, Teacher - Dr. James Tanguay
Isaiah Albert, East Hartford 8
Awards: Honors = 2
- 5503 P8 Examining the impact of window moisture on the strength of a wifi signal.
Danbury, Westside Middle School Academy, Teacher - Jon Nehausel
Jordan Lema, Danbury 8
Awards: Honors = 2
- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion
- 5504 P8 Trash to Gas!
Southington, Southington Catholic School, Teacher - Pauline Pelczar
Victoria Gomez, Southington 8
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
 - Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion
- 5505 P8 The Fastest Manicure
Pawcatuck, St. Michael School, Teacher - Mrs. Grossomanides
Hazel Allik, Pawcatuck 8
Awards: Honors = 3

AWARDS

- 5506 P8 Solar Cells
Bethel, St. Mary School, Teacher - Kate McDonald
Grace Garvey, Bethel 8
Awards: Honors = 2
• Energize CT/eesmarts Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion
- 5507 P8 Battle of the Bridges
Shelton, St. Joseph School, Teacher - Kieran Hyland
Alexandra Coleman, Shelton 8
Awards: Honors = 2
- 5508 P8 Natural Plastic: Milk Plastic Biodegradation vs. Commercial Plastic Degradation
Hartford, Sport and Medical Sciences Academy, Teacher - Christine Demusz
Madison Lee, Rocky Hill 8
Awards: Honors = 1
• Pepsico Physical Sciences Awards --- 5th Place- Physical Sciences 8th Grade Ind. - trophy
• CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- 1st Place Middle School - \$300 and Trophy, Medallion
• Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion
• UTC Aerospace Systems Awards for Excellence in Engineering --- 1st Place- Engineering 8th grade- \$500 & trophy and Invitation Compete in Broadcom MASTERS
• Connecticut Academy of Science and Engineering Middle School Urban School Challenge Award --- Urban School Challenge 1st MS- \$250 Cash Award, Invite to attend CASE's Annual Mtg & \$500 to School Science Department for Equipment/Supplies
• Alexion Biotechnology Awards --- 2nd Place- Biotechnology 8th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS
• NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
• Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related
• Urban School Challenge 1st Place Middle School Awards --- Highest Placing 8th grader- GENIUS-Olympiad Competition-\$500 travel stipend
• GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project
- 5509 P8 The Effect of Heat on Static Electricity
Trumbull, Christian Heritage School, Teacher - Theresa Miller
Ymonie Humphries, West Haven 8
Awards: Honors = 2
- 5510 P8 Inexpensive & Lightweight Alternatives for Expensive Bulky Jackets
Orange, Amity Reg Middle Scool - Orange Campus, Teacher - Mr. Dahn/Foley
Adarsh Kongani, Orange 8
Awards: Honors = 2
- 5511 P8 A Battery That Makes "Cents"
West Hartford, St. Brigid-St. Augustine School, Teacher - Mr. D. Fay
Angel Nooks, Hartford 8
Awards: Honors = 3
- 5512 P8 What water bottle brand will keep water the coolest.
Meriden, St. Joseph School, Teacher - Mr. Coleman
Khalia Hunt, Meriden 8
Awards: Honors = 3
• Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- 5515 P8 Efficient Non-Toxic Dye-Sensitized Solar Cells
Danbury, St. Joseph School, Teacher - Miss. Lydia Jabbour
Elias Haddad, Danbury 8
Awards: Honors = 2
- 5516 P8 Toothpaste (Does Brand Matter?)
Bridgeport, Park City Prep Charter School, Teacher - Jonathan Jaekle
Danney Gibbs, Stratford 8
Awards: Honors = 3

- 5517 P8 Crystallization Creations
 Bridgeport, Roosevelt School, Teacher - Ms. Simon
 Nicolas Daniels, Bridgeport 8
 Awards: Honors = 3
- 5518 P8 Magnetic Power
 Monroe, St. Jude School, Teacher - Mrs. Shea
 Francesco Thomas, Monroe 8
 Awards: Honors = 3
 • Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion
- 5519 P8 Extinguish-Bot
 Bethany, Amity Reg Middle School - Bethany Campus, Teacher - Kevin Berean
 Weiss Yuan, Woodbridge 8
 Awards: Honors = 1
 • Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
 • Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion
 • UTC Aerospace Systems Awards for Excellence in Engineering --- Finalist - Engineering 8th grade - CSF Medallion
 • Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
 • Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF
 • American Society of Safety Engineers, CT Valley Chapter --- \$100 grade 7-8 project
- 5520 P8 Does the Surface Really Matter?
 Southington, J.A. DePaolo Middle School, Teacher - Mrs. Shea
 Faith Kosior, Southington 8
 Awards: Honors = 2
- 5521 P8 Silicone-Filled Drumsticks can Reduce Vibration Impact in a Drummer's Hand
 Orange, Amity Reg Middle School - Orange Campus, Teacher - Mr. Dahn/Foley
 Sebastian Todeasa, Orange 8
 Awards: Honors = 2
 • American Society of Safety Engineers, CT Valley Chapter --- \$100 grade 7-8 project
- 5522 P8 Tidal Times
 New London, St. Joseph School, Teacher - Amanda Lakowsky
 Martin Arvidson, New London 8
 Awards: Honors = 3
- 5523 P8 Tracking the movements of a human being.
 Woodbridge, Ezra Academy, Teacher - Rebecca Tishkoff
 Ethan Lavi, Woodbridge 8
 Awards: Honors = 1
 • Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
 • Jon Stone Memorial Award --- \$150 cash for Innovative Engineering
- 5524 P8 Oobleck
 Hamden, Hamden Middle School, Teacher - Daniel Sgrigneri
 Christina Macci, Hamden 8
 Awards: Honors = 2
- 5525 P8 Waterbot
 Bethany, Amity Reg Middle School - Bethany Campus, Teacher - Kevin Berean
 Jonathan Fischman, Woodbridge 8
 Awards: Honors = 1
 • Pepsico Physical Sciences Awards --- 3rd Place- Physical Sciences 8th Grade Ind, - \$100 & trophy, invite to compete Broadcom MASTERS
 • Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion

AWARDS

- 5526 P8 Getting the most out of your batter
Meriden, St. Joseph School, Teacher - Mr. Coleman
Colin Ivers, Meriden 8
Awards: Honors = 3
- 5527 P8 Hoverboards
Bridgeport, Park City Magnet School, Teacher - Mrs. Simon
Amir Alibali, Bridgeport 8
Awards: Honors = 2
- 5528 P8 Is There a Tapiolite Vein in Connecticut?
Woodbridge, Ezra Academy, Teacher - Rebecca Tishkoff
Gideon Reiter, Woodbridge 8
Awards: Honors = 3
- 5529 P8 Soiled Soil
Windsor, St. Gabriel School, Teacher - Ms. Rosa
Jessica Akin, Windsor 8
Awards: Honors = 2
- 5530 P8 Making concrete more energy efficient and lightweight.
Farmington, Irving A. Robbins Middle School, Teacher - Kerry Visone
Angela Sadlowski, Unionville 8
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
 - UTC Aerospace Systems Awards for Excellence in Engineering --- 3rd Place- Engineering 8th grade- \$100 & trophy and Invitation Compete in Broadcom MASTERS
 - Alexion Biotechnology Awards --- 5th Place- Biotechnology 8th grade- trophy
 - Society of Women Engineers - Hartford Section --- Scientific Calculator
 - GCS Award for Excellence in Transportation Engineering --- \$250 cash and plaque
- 5531 P8 The Effects of Different Flours on the Breaking Point and Decomposition Rate of an Edible Spoon.
Danbury, Westside Middle School Academy, Teacher - Jonathan Neuhausel
Sahana Chinthak, Danbury 8
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- 4th Place- Physical Sciences 8th Grade Ind. - trophy
 - CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- 2nd Place Middle School - \$200 and Trophy, Medal lion
 - Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
 - Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
 - Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre
- 5532 P8 Is Biuret Test a reliable reagent to indicate the presence of egg proteins in raw, cooked, and baked egg that can trigger an allergic reaction?
Trumbull, Christian Heritage School, Teacher - Theresa Miller
Andrea Piraneque, Trumbull 8
Awards: Honors = 3
- 5533 P8 The Best Conductor
New Haven, Worthington Hooker Middle School, Teacher - Douglas Jones
Lily Walton, New Haven 8
Awards: Honors = 3
- 5535 P8 Password Security; How Easily Can Your Password Be Hacked? What Can You Do to Make it Safer?
Bozrah, Fields Memorial School, Teacher - Mrs. E. Brown
Kyra Adcock, Bozrah 8
Awards: Honors = 2
- Xerox Computer Science Awards --- Middle School Finalist - Medallion

- 5536 P8 Induced Levitation And Movement Applying Lenz's Law
Groton, Sacred Heart School, Teacher - Larry Fitzgerald, Principal
Michael Luzzio, Groton 8
Awards: Honors = 2
- UTC Aerospace Systems Awards for Excellence in Engineering --- Finalist - Engineering 8th grade - CSF Medallion
 - IEEE, Connecticut Section --- \$100 Honorable Mention
 - Barker Mohandas Awards for Transportation Research --- \$100 Cash & Plaque for Excellence in Transportation Related Research- Middle School
 - Bob Harris Fix It Award --- \$75 and Certificate for ingenuity in using material and tools
- 5537 P8 Developing a Prototype Atmospheric Water Generator System as a Clean, Safe and Sustainable Water Source
Hebron, Oei Homeschool, Teacher - Ellen McHugh
John Oei, Hebron 8
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & trophy, invite to compete Broadcom MASTERS
 - Barnes Aerospace Applied Technology Awards --- 3rd Place Middle School - \$100 and Trophy, Medallion
 - Sustainable Resources and Practices Awards --- 2nd Place Middle School - \$300 Cash and Trophy
 - United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
 - Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
 - NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
 - Ct Architecture Foundation Award Name: The William M. Mack, AIA Award --- \$250 Gift Certificate to Barnes and Noble from the Connecticut Architecture Foundation, William M. Mack, AIA Award.
 - Society of Women Engineers - Hartford Section --- Scientific Calculator
- 5538 P8 Creating an Affordable Homemade Meter to Measure Outdoor Levels of Carbon Dioxide
Danbury, Westside Middle School Academy, Teacher - Mr. Neuhausel
Nicholas Raslavsky, Danbury 8
Awards: Honors = 2
- NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- 5539 P8 Unsupervised Machine Learning for Text Categorization
Avon, Talcott Mountain Academy, Teacher - Lydia Gibb
Aresh Pourkavoos, Avon 8
Awards: Honors = 2
- Xerox Computer Science Awards --- 1st Place Middle School - \$300, Trophy and Medallion
 - Leask/Francoeur Family Awards --- 1st Place Middle School- For innovation electrical engineering or computer science - \$200 cash
- 5540 P8 How does the fill density of a 3D printed flying disc effect how far it flies?
Weston, Weston Middle School, Teacher - Mr. Rosvally
Brian Nordlinger, Weston 8
Awards: Honors = 2
- 5541 P8 How To Make A Water Filter That Will Be More Efficient
New Haven, Engineering Science University Magnet School, Teacher - Rodger Rushworth
Shankara Abbineni, Milford 8
Awards: Honors = 2
- 5542 P8 Wind Turbines
Bethel, St. Mary School, Teacher - Mrs. Kate McDonald
Anna Meehan, Bethel 8
Awards: Honors = 3
- 5543 P8 How does weather vary across the city?
Shelton, Shelton Intermediate School, Teacher - Tina Genova
Jules Cayer, Shelton 8
Awards: Honors = 3

AWARDS

- 5544 P8 Challenges of Creating a 2-d Platformer Game Level
Weston, Weston Middle School, Teacher - Allison Kovac
Byron Hart, Weston 8
Awards: Honors = 3
- 5545 P8 Constructing a CoreXY Dual Extrusion Fused Filament Fabrication Apparatus
Hamden, Hamden Middle School, Teacher - Michelle DeLucia
Conner Larocque, Hamden 8
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
 - CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- 5th Place Middle School - Trophy, Medallion
 - Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion
 - UTC Aerospace Systems Awards for Excellence in Engineering --- 2nd Place- Engineering 8th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS
 - United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
 - U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate
 - IEEE, Connecticut Section --- \$100 Honorable Mention
- 5546 P8 Multi-Purpose Home Automated Motion Sensor
Wilton, Middlebrook Middle School, Teacher - Carol Festa
Rohan Vaddiraju, Wilton 8
Awards: Honors = 3
- 5547 P8 Creating a Cosmetics Foundation with Natural Ingredients
Weston, Weston Middle School, Teacher - David Rosvally
Julia Gregory, Weston 8
Awards: Honors = 2
- 5548 P8 What's you signal?
Woodbridge, Ezra Academy, Teacher - Rebecca Tishkoff
Noah Sapire, Woodbridge 8
Awards: Honors = 2
- 5549 P8 Great Balls of Fire Astrophotography Experiments
New Haven, Worthington Hooker Middle School, Teacher - Douglas Jones
Alexandra Northrup, New Haven 8
Awards: Honors = 2
- 5550 P8 Suspense of the Popcorn
Meriden, St. Joseph School, Teacher - Mr. Tim Coleman
Natalie Camera, Meriden 8
Awards: Honors = 3
- 5551 P8 Hot Socks
Kensington, St. Paul School, Teacher - Ms. Michalak
MacKenzie Van Buren, New Britain 8
Awards: Honors = 3
- 5552 P8 Name Brand vs. Value Brand vs. Homemade
Bethel, St. Mary School, Teacher - Kate McDonald
Judith Apotheker, Bethel 8
Awards: Honors = 3
- 5553 P8 Fruits vs Vegetables
New London, St. Joseph School, Teacher - Ms. Lakowsky
Samantha Salas, New London 8
Awards: Honors = 3

- 5554 P8 The Relationship Between Aerodynamic Shape and Wind Drag
Meriden, ACES Thomas Edison Middle School, Teacher - Todd Solli
Kaya Cook, Middletown 8
Awards: Honors = 2
- CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- Middle School Finalist - Medallion
 - Constellation, an Exelon Company --- 2nd: \$50.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
 - Connecticut College-Physics, Astronomy, & Geophysics Dept. --- \$150 and certificate, Junior Physics & teeshirt
- 5555 P8 The fabrication and testing of various fruit juice dye-sensitized solar cells with the addition of preservatives
Trumbull, Christian Heritage School, Teacher - Theresa Miller
Rachel Brooks, Trumbull 8
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
 - Energize CT/eesmarts Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
 - United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
 - Alexion Biotechnology Awards --- 3rd Place- Biotechnology 8th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS
 - MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, middle school, \$100 cash award
 - Demos R Us Award --- \$150 Cash Award- Clear Execution of Research
- 5556 P8 A Change In the Winds
New Haven, Worthington Hooker Middle School, Teacher - Douglas Jones
Taivan Jargalan, New Haven 8
Awards: Honors = 3
- 5557 P8 Air Engine : Can it be an alternative to a gasoline engine?
Wilton, Middlebrook Middle School, Teacher - Carol Festa
Rahul Vallabhajosula, Wilton 8
Awards: Honors = 3
- 5558 P8 Where is the paper airplane?
Bridgeport, Park City Prep Charter School, Teacher - Jonathan Jaekle
Hairo Vivas-Nava, Bridgeport 8
Awards: Honors = 2
- American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate
- 5559 P8 Vision Shoe
Bethany, Amity Reg Middle School - Bethany Campus, Teacher - Kevin Berean
Shyam Viswanathan, Woodbridge 8
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
 - Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion
 - Xerox Computer Science Awards --- Middle School Finalist - Medallion
 - American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF
 - IEEE, Connecticut Section --- \$100 Honorable Mention
 - ISA - International Society for Automation - Ct. Valley Section --- 2nd - \$75 award
 - Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"
 - The Karen J. Howell Middle School Award for "Learning and Serving" --- The Karen J. Howell Middle School Award for "Learning and Serving" - \$1000
- 5560 P8 How does fabric softener affect the flammability of different fabrics
Danbury, St. Gregory the Great School, Teacher - Mrs. Fahey
Christopher Mezzetta, Danbury 8
Awards: Honors = 3

AWARDS

- 5561 P8 Singing Wine Glasses And Bottles
Danbury, St. Joseph School, Teacher - Miss Jabbour
Shelby Weed, Danbury 8
Awards: Honors = 3
 - Connecticut Academy of Audiology --- \$150 Award MS- For Excellence in Audiology and Acoustics, opport. to shadow an audiologist
- 5562 P8 Depth vs. Velocity
Plantsville, J.F. Kennedy Middle School, Teacher - Mrs. Pepin
Dylan Sandow, Plantsville 8
Awards: Honors = 2
- 5564 P8 Pen-nik
Bethany, Amity Reg Middle School - Bethany Campus, Teacher - Kevin Berean
Nikhil Mali, Woodbridge 8
Awards: Honors = 1
 - Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
 - Alexion Biotechnology Awards --- 4th Place- Biotechnology 8th grade- trophy
- 5565 P8 How Does Fabric Softener Affect The Flammability Of Different Fabrics?
Bridgeport, Read School, Teacher - Nita Chai
Brian Luna, Bridgeport 8
Awards: Honors = 2
- 5566 P8 Stains Away!
Groton, Sacred Heart School, Teacher - Kelli Hammond
Ariana Timmerman, Groton 8
Awards: Honors = 3
- 5567 P8 Battery Power
East Hartford, St. Christopher School, Teacher - Dr. James Tanguay
Alexander Notis, East Hartford 8
Awards: Honors = 2
- 5568 P8 Optimizing Fin Design For Compressed Air Water Rockets
Danbury, Westside Middle School Academy, Teacher - Jonathan Neuhausel
Gryffin Syme, Danbury 8
Awards: Honors = 1
 - Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
 - CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- Middle School Finalist - Medallion
- 5569 P8 Injur-knee
Bethany, Amity Reg Middle School - Bethany Campus, Teacher - Kevin Berean
Cameron Luciano, Woodbridge 8
Awards: Honors = 3
 - Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion
- 5570 P8 "Organic Waste : A Renewable Source of a Energy"
Cheshire, Dodd Middle School, Teacher - Mr. Brian Lopez
Medha Illindala, Cheshire 8
Awards: Honors = 2
 - Association for Women Geoscientists --- Certificate, \$25 gift card to Amazon given by CSEF, possible advance to further competition
- 5571 P8 Multi-color CCD photometry of the variable star Delta Cephei using a home-built six inch reflecting telescope
Madison, Walter Polson Middle School, Teacher - Anna Chang
Aimee Chang, Madison 8
Awards: Honors = 2
 - Astronomical Society of Greater Hartford --- Junior Project-\$100, subscription to Sky and Telescope magazine and ASGH meeting invitation

- 5572 P8 How Far Will It Stretch?
Bridgeport, Black Rock School, Teacher - Helena Coatsworth
Jayvyn Kerr, Bridgeport 8
Awards: Honors = 3
- 5573 P8 Solar Producing in the Polar
Enfield, St. Martha School, Teacher - Lorry Potvin
Matthew Emerson, Broad Brook 8
Awards: Honors = 2
- 5574 P8 How WiFi Affects the Growth of Plants
Bethany, Amity Reg Middle School - Bethany Campus, Teacher - Kevin Berean
Hanna Skiba, Woodbridge 8
Awards: Honors = 2
- 5575 P8 Got Sugar?
Plantsville, J.F. Kennedy Middle School, Teacher - Mrs. Pepin
Margaret Coyle, Southington 8
Awards: Honors = 3
- 6002 PS Hot Glass
Shelton, Shelton High School, Teacher - Lucia Dunham
Jacob Zuklie, Shelton 11
Awards: Honors = 3
- Connecticut Invention Convention “Next Step Inventors” --- \$50 gift certificate & invitation to present at CT Invention Convention as “CIC Next Step Inventors”
- 6003 PS An Investigation Into The Capability Of Graphene To Produce Electricity During Rainstorms As An Addition To A Traditional Solar Panel
Bridgeport, Fairchild Wheeler Magnet High School, Teacher - Ms. Warner
Steven Siveyer, Monroe 10
Awards: Honors = 2
- CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- 2nd Place High School - \$400 and Plaque, Medallion
 - Energize CT/eesmarts Future Sustainability Awards --- 1st Place High School - \$500 Cash, Plaque, and Trip to Compete I-SWEEEP, Houston
 - UTC Aerospace Systems Awards for Excellence in Engineering --- Finalist - Engineering Senior High - CSF Medallion
- 6004 PS Analysis of Mercury Content in Sediments of New Haven Harbor
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Kate Yuan, Woodbridge 10
Awards: Honors = 2
- 6005 PS A Novel Rapid Diagnostic Test for Zika Virus NS1 Protein using Nanoribbon Microfluidics
New Haven, Engineering Science University Magnet School, Teacher - Heather Toothaker
Lauren Low, Hamden 12
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- 4th Place- Physical Sciences Senior High Individual - Plaque
 - CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- Senior High Finalist - Medallion
 - Barnes Aerospace Applied Technology Awards --- 1st Place High School - \$500 and Plaque, Medallion
 - UTC Aerospace Systems Awards for Excellence in Engineering --- 2nd Place- Engineering Senior High- \$500 & plaque
 - Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash
 - IEEE, Connecticut Section --- \$100 Honorable Mention
 - Arthur Mensing Award --- \$1000 cash award for excellence in the physical sciences
- 6006 PS Decreasing Energy Loss in the Flow of Electricity
Trumbull, Trumbull High School, Teacher - Steffanie Elkins
Neal Keklik, Trumbull 12
Awards: Honors = 3

AWARDS

- 6007 PS Harnessing Magnetic Motion to Generate Energy
New London, Science and Technology Magnet HS, Teacher - Charles Mulligan
Sean Flynn, Waterford 11
Awards: Honors = 3
- 6008 PS “ I’m just saying you can do ‘beta’ “
Bridgeport, Fairchild Wheeler Magnet High School, Teacher - Mr.Apgar
Natanael Garcia, Stratford 11
Awards: Honors = 3
- 6009 PS The Efficacy of Lichens as Bioindicators of Air Pollution
Darien, Darien High School, Teacher - Mr. Pratt
Ariel Gianukakis, Darien 12
Awards: Honors = 2
- 6010 PS Novel Low-Temperature Carbon Capture Using Aqueous Ammonia and Organic Solvents
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Ethan Novek, Greenwich 12
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- 1st Place - Physical Sciences Senior High Individual - \$500 & Plaque, trip to compete at Intel ISEF
 - Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
 - Energize CT/eemarks Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Plaque, compete at GENIUS Olympiad
 - United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
 - H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Physical Sciences 1st HS \$1,000, Solid Silver Medal of Excellence, invite to CASE Annual Mtg
 - ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
 - MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, high school, \$100 cash award
- 6011 PS A Novel Approach for Assessing Alzheimer’s Disease Risk through Natural Language Processing-Based Analysis of Aphasic Patterns
Danbury, Wooster School, Teacher - Shumin Guo
Daniel Michael, Danbury 11
Awards: Honors = 2
- 6012 PS Properties Of Potential Regulated Ion Channels
Glastonbury, Glastonbury High School, Teacher - Diane Pintavalle
Thomas Ersevim, Glastonbury 11
Awards: Honors = 2
- 6013 PS Optimization of Vertically Aligned Boron Nitride Nanotube Membranes via Magnetic Arrangement in a Lyotropic Precursor for Water Transport Applications
Redding, CT STEM Fair, Teacher - Andrew Bramante
Connor Li, Cos Cob 12
Awards: Honors = 2
- UTC Aerospace Systems Awards for Excellence in Engineering --- 4th Place- Engineering Senior High- \$200 & plaque
 - Connecticut Association of Physics Teachers --- \$100 Senior project
- 6014 PS The Performance of a Graphene anode battery in a Remote Control Car
Bethel, Bethel High School, Teacher - Raymond Turek
Daniel Islam, Bethel 12
Awards: Honors = 3

- 6015 PS Development of a CNT/ZnO/TiO₂ membrane for visible-light induced photocatalytic filtration of water-borne organic and bacterial pollutants
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Michelle Xiong, Riverside 11
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- 5th Place- Physical Sciences Senior High Individual - Plaque
 - Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
 - UTC Aerospace Systems Awards for Excellence in Engineering --- Finalist - Engineering Senior High - CSF Medallion
 - Alexion Biotechnology Awards --- 1st Place- Biotechnology Senior High- Trip to compete at Intel ISEF, \$1000 & plaque
 - Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
 - Stockholm Junior Water Prize --- Certificate, \$25 gift card to Amazon given by CSEF, possible advance to further competition
 - Society of Women Engineers - Hartford Section --- Scientific Calculator
 - Coherent, Inc. Richard Hart Award for Excellence in Photonics --- \$300 cash, plaque, invitation to lunch and tour Coherent factory
- 6016 PS Ideal Printing Conditions for Fused Deposition Modeling with ABS Filament
New London, Science and Technology Magnet HS, Teacher - Charles Mulligan
Jacqueline Kral, Lisbon 12
Awards: Honors = 2
- 6017 PS An Investigation of Factors Affecting Catalytic Functions
Bolton, Bolton High School, Teacher - Kevin Hartmann
Elizabeth Sansevero, East Hartford 12
Awards: Honors = 2
- 6018 PS The Design and Fabrication of a Zero Carbon Emissions Compressed Air Engine Eliminating Batteries and Other Associated Environmental Impacts
Trumbull, Christian Heritage School, Teacher - Daniel Cote
Judah Immanuel, Woodbridge 11
Awards: Honors = 2
- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion
- 6019 PS The effect of adding a second polymer to polyethylene terephthalate on the mechanical properties and morphology of the polymer blend systems
Windsor, Academy of Aerospace and Engineering, Teacher - Dr. Michelle Bellinger
Nikhil Bhat, Rocky Hill 12
Awards: Honors = 2
- Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre
- 6020 PS Fluorescent Nanofiber Matrices as Extracellular Matrix Tissue Substitutes
Avon, Avon High School, Teacher - Andrea Galuska
Humza Zaidi, Avon 11
Awards: Honors = 2
- 6021 PS Lending a Hand to Those Who Need it Most.
Canton, Canton High School, Teacher - Stephen Riley
Devin Kadis, Canton 12
Awards: Honors = 3
- 6023 PS Biodegradable Plastic Study to Prevent Oceanic Pollution
Shelton, Shelton High School, Teacher - Christine McNamara
Marissa Peck, Shelton 12
Awards: Honors = 3
- ASM Materials Education Foundation --- Certificate & \$25 gift card to Amazon given by CSEF
 - Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
 - Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related

AWARDS

- 6024 PS Investigating the Efficacy of Magnesium Nitrate as a Viable Solvent in the Synthesis of 2,5-Dimethylfuran Biofuel
Bridgeport, Bridgeport Regional Aquaculture Center - BCF, Teacher - Kirk Shadle
Cole Stearns, Fairfield 12
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
 - United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
 - U.S. Metric Association --- Certificate & \$25 Amazon gift card given by CSEF
 - Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
 - Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a High School student, \$200 cash
- 6025 PS Capturing and Converting CO₂ to High Value Chemicals via Renewable Energy
Madison, Daniel Hand High School, Teacher - Madhuparna Roychoudhury
Ankita Roychoudhury, Madison 12
Awards: Honors = 2
- 6027 PS A Novel Approach to Measuring Reaction Times in a Simulated Driving Environment
Suffield, Suffield High School, Teacher - Mitchell Charkiewicz
Caitlin Kirschbaum, Suffield 12
Awards: Honors = 3
- Barnes Aerospace Applied Technology Awards --- 2nd Place High School - \$300 and Plaque Medallion
 - American Society of Safety Engineers, CT Valley Chapter --- \$150 grade 9-12 project
- 6028 PS Development of an Economical Single Stream Recovery Protocol of LiCoO₂ Via Biological Sequestration
Bridgeport, Bridgeport Regional Aquaculture Center - BCF, Teacher - Kirk Shadle
Zachary Gottlieb, Stratford 12
Awards: Honors = 2
- 6029 PS The Synthesis of Silica X-Aerogels through the Sub-Critical Process
Sandy Hook, Newtown High School, Teacher - Tim DeJulio
William LeMay, Newtown 12
Awards: Honors = 3
- 6030 PS A New Fast Algorithm for Finding Eigenvalues in Vibrating Structures
Lakeville, The Hotchkiss School, Teacher - Richard Kyung
Seouk Jun Kim, Lakeville 11
Awards: Honors = 2
- People's United Bank Mathematics Awards - with ATOMIC --- 3rd Place High School - Plaque, \$200 from People's United Bank
 - United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
 - ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
 - Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics
- 6031 PS Determining the Optimal Implementation for Secure Multiparty Computation of the Logistic Function
Darien, Darien High School, Teacher - Christine Leventhal
Andrew Benz, Darien 12
Awards: Honors = 2
- Xerox Computer Science Awards --- Senior High Finalist - Medallion
- 6032 PS Using Octadecanol to Limit Freshwater Evaporation in Areas of Droughts
Sandy Hook, Newtown High School, Teacher - Tim DeJulio
Kelsey O'Connor, Newtown 12
Awards: Honors = 3

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- 6033 PS A Novel N-Doped Carbon Nanotube/Copper Electrode for the Reduction of CO₂ to Biofuel
Greenwich, Greenwich High School, Teacher - Mr. Andrew Bramante
Michelle Woo, Riverside 11
Awards: Honors = 2
- Energize CT/eesmarts Alternative/Renewable Energy Awards --- 2nd Place High School - \$300 Cash and Plaque,
 - UTC Aerospace Systems Awards for Excellence in Engineering --- Finalist - Engineering Senior High - CSF Medallion
 - The Connecticut Technology Council Young Woman Innovation Award --- \$150 Cash Award for Technological Innovation
 - GENIUS Olympiad --- GENIUS Olympiad Competition for 2nd Place HS Alternative/Renewable Energy Project
- 6034 PS The Concept of Foiling
Greenwich, Brunswick School, Teacher - Dana Montanez
William George, Greenwich 10
Awards: Honors = 2
- 6035 PS A Radio Transceiver-Based Wearable Device to Help Visually Impaired Users Avoid Vehicles
Darien, Darien High School, Teacher - Aruna Balasubramanian
Escher Campanella, Darien 12
Awards: Honors = 3
- 6036 PS Does Industry Concentration Affect Variability of Human Capital Investment?
Fairfield, Fairfield Ludlowe High School, Teacher - Mr. Mirror
Srihita Mediboina, Fairfield 11
Awards: Honors = 3
- 6037 PS Study on the Roles of Reactive Oxygen Species(ROS) and Nano Scaled Biochemical Molecules Treating Tumor Cells
Pomfret, Pomfret School, Teacher - Richard Kyung
YongWoo Lim, Pomfret 10
Awards: Honors = 2
- 6038 PS The Application of Ferrofluid paired with Neodymium Rare Earth Magnets to Reduce Friction.
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk Shadle
Paul Santandrea, Fairfield 12
Awards: Honors = 2
- University of Connecticut - Physics Department --- UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificate
- 6039 PS Bioluminescent Pyrocystis Fusiformis in a Changing Environment
Fishers Island, Fishers Island School, Teacher - Carol Giles
Caroline Toldo, Fishers Island 11
Awards: Honors = 3
- 6040 PS Application of flexible PVDF nanofibrous membrane coated carbon fiber filter for tunable low cost solvent recycling
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Alex Araki, Greenwich 11
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
 - TurnKey Compliance Solutions Environmental Awards --- \$300 Cash Award High School- For excellence in environmental sciences
- 6041 PS Development of New and Efficient Metamaterials
Simsbury, Westminster School, Teacher - Richard Kyung
Dong Ju Lee, Simsbury 11
Awards: Honors = 2
- 6042 PS Cheap Heat
Shelton, Shelton High School, Teacher - Mrs. McNamara
Gregorio Corsale, Derby 12
Awards: Honors = 3
- Energize CT/eesmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion
 - Energize CT/eesmarts Future Sustainability Awards --- 3rd Place High School - \$200 Cash and Plaque

AWARDS

- 6043 PS The Fabrication of a Graphene Supercapacitor
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Jacob Silliman, Woodbridge 11
Awards: Honors = 3
- 6044 PS Optimizing Efficiency of Long Distance Tube-And-Pod-Based Low Friction Transportation Systems
Greenwich, Brunswick School, Teacher - Dana Montanez
Wesley Peisch, Greenwich 11
Awards: Honors = 3
- Xerox Computer Science Awards --- 1st Place High School - \$400, Plaque, Medallion
 - Intel Excellence in Computer Science Award --- \$200 & certificate
 - Barker Mohandas Awards for Transportation Research --- \$200 Cash & Plaque for Excellence in Transportation Related Research- High School
- 6045 PS Deciphering emotions through a voice's physical characteristics
Fairfield, Fairfield College Preparatory School, Teacher - Ms. Kiel
Haoxiang Zhang, Fairfield 11
Awards: Honors = 3
- 6046 PS Cycling Assisted Brake
Shelton, Shelton High School, Teacher - Dr. Rivera
Kyle Young, Shelton 9
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
 - Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion
 - University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Engineering: Mechanical
- 6047 PS A Weather-Based Autonomous Rainwater Irrigation System
Bristol, St. Paul Catholic High School, Teacher - Mr. Aliberti
Kamila Krawczuk, New Britain 11
Awards: Honors = 2
- Xerox Computer Science Awards --- Senior High Finalist - Medallion
 - Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion
 - Leask/Francoeur Family Awards --- 1st Place High School- For innovation electrical engineering or computer science - \$200 cash
 - Connecticut Nurserymen's Foundation, Inc. --- \$200 Cash Award & paid registration to the CT Nursery and Landscape Summer Meeting
 - Southeastern New England Marine Educators --- Outstanding project in aquatic Science \$100 award and membership in SENEME - 1st place Senior and t-shirt
- 6048 PS Efficient Wind Turbine Blade Design Using Computational and Numerical Analysis
Simsbury, Westminster School, Teacher - Mr. Griffith
Seung Ki Lee, Simsbury 11
Awards: Honors = 2
- 6049 PS Improving the Outbrain Click Prediction Algorithm
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Jimmy Bi, Woodbridge 12
Awards: Honors = 3
- Xerox Computer Science Awards --- Senior High Finalist - Medallion
- 6050 PS Liquid Reflectiveness and its effect on temperature
Danbury, Immaculate High School, Teacher - Bridget Henry
Nolan Ames, Danbury 11
Awards: Honors = 3

- 6051 PS Design, build, and code a cellular/WiFi enabled smart thermostat using a microcontroller and a custom Android app to increase energy efficiency for homes and workplaces.
 New Haven, Bruder Homeschool, Teacher - John Bruder
 Ben Bruder, New Haven 10
 Awards: Honors = 2
- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion
 - ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
 - Zepke Award --- \$200 - For the Best Use of Electronic Circuitry
 - University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Engineering: Electrical
- 6052 PS Adaptive Boosting - A Study on Machine Learning
 Simsbury, Westminster School, Teacher - Mr. Tony Griffith
 Nicholas Wee, Simsbury 11
 Awards: Honors = 3
- Xerox Computer Science Awards --- Senior High Finalist - Medallion
- 6053 PS Renewable Energy Generation of a Hybridized Saltwater Electrochemical and Hydrokinetic Energy System
 Greenwich, Greenwich High School, Teacher - Mr. Bramante
 Bennett Hawley, Cos Cob 10
 Awards: Honors = 2
- Energize CT/esmarts Future Sustainability Awards --- High School Finalist - Medallion
 - UTC Aerospace Systems Awards for Excellence in Engineering --- 3rd Place- Engineering Senior High- \$300 & plaque
 - Constellation, an Exelon Company --- 1st: \$150.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy
 - IEEE, Connecticut Section --- \$100 Honorable Mention
 - Mystic Aquarium - Sea Research Foundation --- \$100 and 4 Admission Tickets to Mystic Aquarium
- 6054 PS The Application of Object Tracking in Surgery Robotics
 Fairfield, Fairfield College Preparatory School, Teacher - Deborah Kiel
 Hanxuan Mo, Fairfield 12
 Awards: Honors = 2
- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion
 - U.S. Metric Association --- Certificate & \$25 Amazon gift card given by CSEF
- 6055 PS So You Want to be a Rock Climber?
 Canton, Canton High School, Teacher - Stephen Riley
 Noah O'Leary, Avon 12
 Awards: Honors = 3
- 6057 PS AprilTrack: A Particle-Filter based AprilTag Tracker
 Redding, CT STEM Fair, Teacher - David Lewis
 Daniel Pfrommer, Darien 11
 Awards: Honors = 2
- 6058 PS The Efficient Application of Resonant Energy
 Shelton, Shelton High School, Teacher - Tosca Rivera
 Michael Kichar, Shelton 10
 Awards: Honors = 3
- 6059 PS Most Powerful Wind Turbine Blades
 Bridgeport, Fairchild Wheeler Magnet High School, Teacher - Lucas Fatsy
 Ezekiel Cruz, Trumbull 9
 Awards: Honors = 3
- 6060 PS Perpetual Wind Energy
 Suffield, Suffield High School, Teacher - Mitchell Charkiewicz
 Samatar Wehelie, Suffield 11
 Awards: Honors = 3

AWARDS

- 6061 PS Comparative Study of Self-Designed Direct Access Formic Acid Fuel Cell (DFAFC) vs Hydrogen Fuel Cell
Greens Farms, Greens Farms Academy, Teacher - Mathieu Freeman
Edward Lopez-Wortman, Stamford 12
Awards: Honors = 1
• Pepsico Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- 6062 PS An investigation of the structural integrity of wood species used for the tops of acoustic guitars.
Canton, Canton High School, Teacher - Stephen Riley
Ethan Porter, Canton 12
Awards: Honors = 3
- 6063 PS Carbon Capture and Storage via Silver Nanoparticle Catalyzed Hydration of Carbon Dioxide
Greenwich, Greenwich High School, Teacher - Andy Bramante
Agustina Stefani, Greenwich 12
Awards: Honors = 1
• Pepsico Physical Sciences Awards --- 3rd Place- Physical Sciences Senior High Individual - \$200 & Plaque
• University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Chemistry
- 6064 PS An Engineering Approach to Developing Sustainable Technology: Piezoelectric-Powered Shoe Inserts
Shelton, Shelton High School, Teacher - Christine McNamara
Lauren Pawlowski, Shelton 11
Awards: Honors = 2
• Energize CT/esmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- 6065 PS The Impact of Methyl Ester in Oil on Swimsuit Speed
Hamden, Sacred Heart Academy, Teacher - Elizabeth Christophy
Katie Gray, Oxford 10
Awards: Honors = 3
- 6066 PS Correlation of CTNNB1 Gene and Ossifying Fibroma (OF)
Glastonbury, Glastonbury High School, Teacher - Diane Pintavalle
Niyati Hora, Glastonbury 11
Awards: Honors = 2
- 6067 PS Computer-Aided Bleeding Detection in Wireless Capsule Endoscopy Images Using Deep Convolutional Neural Networks
Hamden, Sacred Heart Academy, Teacher - Elizabeth Christophy
Eunji Lee, Trumbull 11
Awards: Honors = 1
• Pepsico Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & Plaque, trip to compete at Intel ISEF
• People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion
• Xerox Computer Science Awards --- 3rd Place High School- \$200, Plaque, Medallion
• Intel Excellence in Computer Science Award --- \$200 & certificate
• Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics
- 6068 PS Fire Resistance
Bridgeport, Bridgeport Military Academy, Teacher - Evanna Dias
Evanna Dias, Bridgeport 12
Awards: Honors = 3
• American Society of Safety Engineers, CT Valley Chapter --- \$150 grade 9-12 project
- 6069 PS The Design And Synthesis Of $[\text{Ru}(\text{tBu}_3\text{-tpy})(5\text{-methyl-2-(pyridin-2-yl)-4,5-dihydrooxazole})\text{Cl}]\text{PF}_6$ And Its Effect On CO_2 Reduction
Glastonbury, Glastonbury High School, Teacher - Diane Pintavalle
Tamashi Hettiarachchi, Glastonbury 11
Awards: Honors = 3
- 6070 PS Feasibility of Radio Frequency Technology To Potentially Create a Wearable Distance-Sensitive Device to Help Young Adults Avoid Forgetting Epi-Pen.
Trumbull, Christian Heritage School, Teacher - Daniel Cote
Cristian Piraneque, Trumbull 11
Awards: Honors = 2

- 6071 PS Is It More Effective to Get Surgery or Use Physical Therapy After a Ruptured Heel Cord?
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Henry Molot, Woodbridge 11
Awards: Honors = 3
- 6072 PS Finding An Efficient Scalable Gray Water Bioremediation Treatment System
Darien, Darien High School, Teacher - Mr. Pratt
Courtney Lowe, Darien 12
Awards: Honors = 2
- Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
 - Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Physical Sciences
 - University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Environmental Science
- 6073 PS A Small Spectrometer to Find Peanut Ingredients in Food
Suffield, Suffield High School, Teacher - Mitchell Charkiewicz
Zachariah Service, Suffield 11
Awards: Honors = 3
- ISA - International Society for Automation - Ct. Valley Section --- 3rd - \$50 award
- 6074 PS Reliably Jammed Disk Packing: A Novel Feature of a Classic Geometry Problem
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Steven Ma, Greenwich 11
Awards: Honors = 3
- People's United Bank Mathematics Awards - with ATOMIC --- 2nd Place High School- \$100 from ATOMIC, Plaque, \$300 from People's United Bank
 - Mu Alpha Theta --- Certificate, \$25 Amazon gift card given by CSEF
 - University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Mathematics
- 6075 PS The Gravitational Effect Of The Galilean Satellites On The Shrinkage Of The Great Red Spot
Canton, Canton High School, Teacher - Stephen Riley
Adeline Obrzut, Canton 12
Awards: Honors = 2
- 6076 PS Designing and Implementing a Flexible Support System for the Finger Injury Prevention in High-Impact Sports and Applications
Greens Farms, Greens Farms Academy, Teacher - Mathieu Freeman
Charles Thompson, Southport 12
Awards: Honors = 2
- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion
 - Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"
- 6077 PS Synthesis and Improvement of Mechanical Robustness Within Photonic Crystals
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Vince Li, Orange 11
Awards: Honors = 3
- 6078 PS Evaluation of BMG via tensile strength and hardness after exposure to acidic, basic, and saline conditions
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk Shadle
Koe Tsutsumi, Stratford 12
Awards: Honors = 2
- ASM Materials Education Foundation --- Certificate & \$25 gift card to Amazon given by CSEF
- 6079 PS Experimentally determining the total lasting albedo effect of aerosol-seeded clouds based on aerosol particle type
Redding, Joel Barlow High School, Teacher - Dr. Katherine Nuzzo
Jonathan Lam, Easton 11
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion

AWARDS

- 6080 PS Comparing the efficiency of water-filtering materials and developing an affordable, effective, water filtration system for the developing world
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Julia Todeasa, Orange 10
Awards: Honors = 2
• J.A. Augustine Award --- \$100 for excellence in physical sciences
- 6081 PS Wine Glasses and What Affects Their Resonant Frequency
Fishers Island, Fishers Island School, Teacher - Carol Giles
Natalie Vail, Mystic 11
Awards: Honors = 3
- 6082 PS The Reutilization of Plastic as a Home Insulation System
Suffield, Suffield High School, Teacher - Mitchell Charkiewicz
Katherine Baker, Suffield 12
Awards: Honors = 3
- 6083 PS Flow Rate vs. Hydroelectric Kilowatts Produced: A novel approach using Pelton wheels and land-based turbines in an effort to preserve surrounding ecosystems
Greenwich, Brunswick School, Teacher - Dana Montanez
Edward Camel, Greenwich 11
Awards: Honors = 2
• Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
• Yale Science & Engineering Association, Inc. --- Certificate, \$25 gift card to Amazon given by CSEF
- 6084 PS The Effect of Different Textures of Coconut-Based Activated Carbon on the Adsorption of Dyes
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Keri Tenerowicz, Bethany 10
Awards: Honors = 2
- 6085 PS Functionalization of Gold Nanoparticles with various Amino Acids under Different pH Environment
Glastonbury, Glastonbury High School, Teacher - Diane Pintavalle
Danielle Cai, Glastonbury 11
Awards: Honors = 1
• Pepsico Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- 6086 PS Synthetic Turf Infill Engineering
Bethel, Bethel High School, Teacher - Ray Turek
Rachel Salvador, Bethel 12
Awards: Honors = 2
• American Society for Metals - Hartford Chapter --- \$100 Check
- 6087 PS Determining Salient Control Decisions of the Actuated Spring Loaded Inverted Pendulum Traversing Slippery Terrain Using a Sliding Mass Model
Darien, Darien High School, Teacher - Guy Pratt
Samuel Pfrommer, Darien 12
Awards: Honors = 2
- 6088 PS The Effect of Center of Mass and Center of Pressure Locations of Model Rocket Performance
Shelton, Shelton High School, Teacher - Dr. Rivera
Siddharth Jain, Shelton 9
Awards: Honors = 2
• UTC Aerospace Systems Awards for Excellence in Engineering --- Finalist - Engineering Senior High - CSF Medallion
• John S. Kendall Memorial Awards --- \$500 John S. Kendall Award for Excellence In Mechanical Engineering - High School
- 6089 PS Study of Size Separation of Sub-Millimeter Sizes Granular Material Using Vibro-Fluidization
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Jethin Gowda, Orange 12
Awards: Honors = 1
• Pepsico Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
• UTC Aerospace Systems Awards for Excellence in Engineering --- Finalist - Engineering Senior High - CSF Medallion

- 6090 PS Correlation of Elbow Kinetics and Ball Velocity to UCL Strain/ Injury in Baseball Pitchers
Oxford, Oxford High School, Teacher - Adrian Poffenberger
Michael Kashuba, Oxford 11
Awards: Honors = 2
- 6092 PS Methane Reduction in Hydropower Plants
Bethel, Bethel High School, Teacher - Ray Turek
Pavitra Rao Makarla, Bethel 12
Awards: Honors = 3
- 6093 PS Designing a Protective Cap To Reduce Impact Force and Head Trauma
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Quinnlan Burke, Woodbridge 11
Awards: Honors = 2
- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion
 - American Society of Safety Engineers, CT Valley Chapter --- \$150 grade 9-12 project
- 6094 PS Analyzing the Accuracy of a Two Queue Simulation of a Polling Station in Modeling Voter Wait Times
Darien, Darien High School, Teacher - Guy Pratt
Brendan Berrigan, Darien 12
Awards: Honors = 3
- 6095 PS The Fabrication and Testing of a Personal Air Quality Monitoring System
Trumbull, Christian Heritage School, Teacher - Daniel Cote
Chiharu Taniguchi, Seymour 11
Awards: Honors = 2
- 6096 PS Determining Orbital Properties of Eclipsing Binary Stars Through Visual Observations of Variable Brightness
Trumbull, St. Joseph High School, Teacher - Kevin Green
James Bove, Trumbull 11
Awards: Honors = 2
- Connecticut College-Physics, Astronomy, & Geophysics Dept. --- \$150 and certificate, Senior Physics & teeshirt
- 6097 PS Developing a Novel Energy Harvesting Device using Paint-on Fabrication Techniques with Mosz and use of Discardable Materials
New Haven, Engineering Science University Magnet School, Teacher - Roger Rushworth
Arya Bairat, Milford 9
Awards: Honors = 2
- Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion
 - ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
 - IEEE, Connecticut Section --- \$250 Honors Award -Senior
- 6098 PS Effects of Concentration and Cooling Rate on Microstructural and Macroscopic Properties of Tin-Zinc Binary Alloys
Windsor, Academy of Aerospace and Engineering, Teacher - Michelle Bellinger
Jay Aindow, Tolland 12
Awards: Honors = 1
- Pepsico Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
 - CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- Senior High Finalist - Medallion
 - ASM Materials Education Foundation --- Certificate & \$25 gift card to Amazon given by CSEF
 - American Society for Metals - Hartford Chapter --- \$100 Check
- 6099 PS Residential Oil Tank Risk Prediction
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Howard Ding, Woodbridge 11
Awards: Honors = 3
- 6100 PS A Closer Look At Petroleum: Our World's Energy
Canton, Canton High School, Teacher - Stephen Riley
Gabriel Ortiz, Canton 12
Awards: Honors = 3
- Energize CT/eesmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion

AWARDS

- 6101 PS Producing bioethanol from cellulose
New Britain, CREC Academy of Science and Innovation, Teacher - Peter Wik
Hardhik Kummamuru, Windsor Locks 10
Awards: Honors = 2
- 6102 PS An Investigation of Similarities Between Light Curves of Intrinsic Variable Stars
Greenwich, Brunswick School, Teacher - Dana Montanez
Thomas Kimberlin, Greenwich 10
Awards: Honors = 2
• Astronomical Society of Greater Hartford --- Senior Project-\$150, subscription to Sky and Telescope magazine and ASGH meeting invitation
- 6501 PST Levitating and propelling objects.
Suffield, Suffield High School, Teacher - Mitchell Charkiewicz
Zachary Rossignol, Suffield 9 Dylan Reilly Suffield 9
Awards: Honors = 2
- 6502 PST An Investigation of Conductive Graphene Dispersion: optimizing heat retention, water resistance, strength and durability of fabrics
Greenwich, Brunswick School, Teacher - Dana Montanez
Matthew Jacobson, Greenwich 11 Nick Saah Darien 11
Awards: Honors = 2
- 6503 PST Bamboo brick
Hartford, Prince Technical High School, Teacher - Marie Ditaranto
Mariely Rodriguez, Hartford 10 Jeremy Montalvo Hartford 10
Awards: Honors = 3
- 6504 PST Today's Invisible Threats: the Concentration of Radon According to Geological and Geographical Components
Trumbull, St. Joseph High School, Teacher - Dr. Walsh
Abigail Cloud, Bridgeport 10 Anna Argulian Stratford 10
Awards: Honors = 1
• Pepsico Physical Sciences Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion
- 6505 PST Using Piezoelectricity to Harness Energy into a Battery
Greenwich, Brunswick School, Teacher - Dana Montanez
Harold Barringer, Greenwich 10 Thomas Foley Greenwich 10
Awards: Honors = 1
• Pepsico Physical Sciences Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion
• UTC Aerospace Systems Awards for Excellence in Engineering --- Finalist - Engineering Senior High - CSF Medallion
- 6507 PST Tail-Pipe Turbine
New Milford, New Milford High School, Teacher - Brad Jones
Cesar Gavilano, New Milford 12 Kurt Jonke New Milford 12
Awards: Honors = 3
- 6508 PST Role of Ambient Environmental Chemical Composition in the Creation of Precursors to Life
New London, Science and Technology Magnet HS, Teacher - Charles Mulligan
Thomas Statchen, Stonington 10 Zack Skrabacz New London 10
Awards: Honors = 1
• Pepsico Physical Sciences Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion
- 6510 PST Analysis and Proving of "Cycloid" Universe Using Friedmann Equations and Torsion Cosmology
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Kelsey McCormack, Orange 12 Himay Dharani Orange 12
Awards: Honors = 2
• People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion
• American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF
- 6511 PST Will the type of Acidic Liquid Mix With Milk change the Durability of Plastic
Bridgeport, Fairchild Wheeler Magnet High School, Teacher - Ms. Ma
Cecilia Merlo, Bridgeport 10 Praneeth Sundararajan Milford 10
Awards: Honors = 2

- 6512 PST The U-Desk
New Milford, New Milford High School, Teacher - Brad Jones
Matthew Adamou, New Milford 12 Thomas Schneider New Milford 12
Awards: Honors = 2
- 6513 PST The Effect of Adding a Second Polymer to Bombyx mori silk fibroin on the Mechanical Properties and Morphology of The Polymer Blends
Windsor, Academy of Aerospace and Engineering, Teacher - Michelle Bellinger
Chandni Patel, Southington 12 Janine Albert Windsor 12
Awards: Honors = 1
 - Pepsico Physical Sciences Awards --- 3rd Place - Physical Sciences Senior High Team - Plaque
- 6514 PST Charge Your Devices Using a Portable Thermoelectric Generator Harnessing Wasted Heat Energy
Windsor, Madina Academy, Teacher - Saqib Chariwala
Ayman ElSherbini, Windsor 10 Alina Mohammed Windsor 10
Awards: Honors = 2
 - Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion
- 6516 PST Converting Grass into Cellulosic Ethanol to Generate Energy as a Heating System
Windsor, Madina Academy, Teacher - Saqib Chariwala
Radeyah Ahmed, Bloomfield 10 Jareen Choudhury Bloomfield 11
Awards: Honors = 1
 - Pepsico Physical Sciences Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion
 - Energize CT/eesmarts Alternative/Renewable Energy Awards --- 3rd Place High School - \$200 Cash and Plaque
 - University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Energy & Transportation
- 6517 PST A Novel High Performance Liquid Chromatography Protocol to Investigate the Analgesic Role of Salicylic Acid and Other Bioactive Components found in Traditional Chinese Medicine
Bridgeport, Bridgeport Regional Aquaculture Center - BCF, Teacher - Kirk Shadle
Rachel Roca, Trumbull 12 Julia Lawlor Southport 12
Awards: Honors = 1
 - Pepsico Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Team- \$300(split) & Plaque
- 6519 PST The Optimization of a Polycrystalline and Monocrystalline Solar Cell through Effective Cooling in the Form of a Heatsink Transfer System
New London, Science and Technology Magnet HS, Teacher - Charles Mulligan
John Burnett, Ledyard 11 Austin Huang Uncasville 11
Awards: Honors = 2
 - Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion
 - Constellation, an Exelon Company --- 2nd: \$100.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy
- 6520 PST The Effect of Bio-inspired Textures on Friction
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Rosie Du, New Haven 10 Courtney Greifenberger Orange 11
Awards: Honors = 2
- 6522 PST Project W- Domestic water recovery system
Milford, Platt Technical High School, Teacher - Mrs. Hart
Christian Haupt, West Haven 10 Christian Ramos Stratford 10
Awards: Honors = 3
 - Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion
 - University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Sustainability
- 6523 PST Effect of Aerodynamic Leaf Design on Electrical Power Generation via a Network of Vertically Aligned Micro Wind Turbines
Windsor, Academy of Aerospace and Engineering, Teacher - Dr. Bellinger
Chris Rinaldi, Enfield 10 Vishakh Talanki South Windsor 10 Jean Pasato Middletown 10
Awards: Honors = 1
 - Pepsico Physical Sciences Awards --- 1st Place- Physical Sciences Senior High Team- \$500 (split) & Plaque
 - People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion
 - CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- Senior High Finalist - Medallion
 - Energize CT/eesmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion

AWARDS

- 6524 PST The LD T.E.P System
New Britain, Goodwin Technical High School, Teacher - Mr. Menard
Dante Marrone, Bristol 10 Lukas Schneider Farmington 10
Awards: Honors = 3
- 6525 PST Energy conservation street lamp
Fairfield, Fairfield College Preparatory School, Teacher - Ms. Kiel
Haochen He, Fairfield 10 Daqin Lin Fairfield 11 Shu Guo Fairfield 10
Awards: Honors = 3
- 6526 PST Using Programming to Solve Math Problems My Calculus Teacher Couldn't Solve
Bridgeport, Fairchild Wheeler Magnet High School, Teacher - Mr. Nilan
Kenneth Wright, Milford 11 Jada Worthy Bridgeport 11
Awards: Honors = 3
- 6527 PST Impacts of Ocean Acidification on Phytoplankton
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Summer Schaaf, Woodbridge 10 Neha Sudhir Woodbridge 10
Awards: Honors = 2
- 6528 PST Solar powered survival Jacket with a organic type battery back up. to recharge or power a cell phone or LED lights.
New Britain, Goodwin Technical High School, Teacher - Steve Donaghy
Daniel Garcia, New Britain 10 Juan Ospina New Britain 10 Daneirys Rivera Bristol 10
Awards: Honors = 2
- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion
- 6529 PST Virtual Forensics Chemical Lab Simulation App (for Liquids, Metals, and Nonmetal Solids)
Avon, Avon High School, Teacher - Mrs. Andrea Galuska
Jaya Hari, Avon 9 Dheepa Hari Avon 9
Awards: Honors = 3
- American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF
-

Top Winners Advancing To International Competitions

Intel ISEF

CSEF Life Sciences

- 3086 LS Detection of Premalignant Pancreatic Cancer via Computational Analysis of Serum Proteomic Profiles
Shobhita Sundaram Greenwich, Greenwich High School Teacher - Andrew Bramante
- 3013 LS Formulation of Gelatin-Hyaluronic Acid Blend Cross-Linked Gels for Potential Tissue Applications:
 Cost-Effective, Patient Specific, Alternative Treatment of Labral Tears of the Hip
Sophie Edelstein New Haven, Wilbur Cross High School Teacher - Charlene Woodland

CSEF Physical Sciences

- 6010 PS Novel Low-Temperature Carbon Capture Using Aqueous Ammonia and Organic Solvents
Ethan Novek Greenwich, Greenwich High School Teacher - Andrew Bramante
- 6067 PS Computer-Aided Bleeding Detection in Wireless Capsule Endoscopy Images Using Deep Convolutional Neural Networks
Eunji Lee Hamden, Sacred Heart Academy Teacher - Elizabeth Christophy

Alexion Biotechnology

- 6015 PS Development of a CNT/ZnO/TiO₂ membrane for visible-light induced photocatalytic filtration of water-borne organic and bacterial pollutants
Michelle Xiong Greenwich, Greenwich High School Teacher - Andrew Bramante

Urban School Challenge

- 3151 LS A study of circadian genetics and abiotic stress towards sustainable agriculture
Maya Geradi New Haven, Wilbur Cross High School Teacher - Prof. Joshua Gendron

UTAS Engineering

- 3013 LS Formulation of Gelatin-Hyaluronic Acid Blend Cross-Linked Gels for Potential Tissue Applications:
 Cost-Effective, Patient Specific, Alternative Treatment of Labral Tears of the Hip
Sophie Edelstein New Haven, Wilbur Cross High School Teacher - Charlene Woodland

CT STEM Fair (Regional fair of CSEF)

- 3086 LS Detection of Premalignant Pancreatic Cancer via Computational Analysis of Serum Proteomic Profiles
Shobhita Sundaram Greenwich, Greenwich High School Teacher - Andrew Bramante

I-SWEEEP

- 6003 PS An Investigation Into The Capability Of Graphene To Produce Electricity During Rainstorms As An Addition To A Traditional Solar Panel
Steven Siveyer Bridgeport, Fairchild Wheeler Magnet High School Teacher - Ms. Warner
- 3016 LS The Use of Copepods as a Mosquito Control System
Sophie Wang Waterford, Waterford High School, Teacher - Michael O'Connor
- 6519 PST The Optimization of a Polycrystalline and Monocrystalline Solar Cell through Effective Cooling in the Form of a Heatsink Transfer System
John Burnett and Austin Huang (team) New London, Science and Technology Magnet HS Teacher - Charles Mulligan

GENIUS Olympiad

- 3074 LS Remediation of Beryllium Heavy Metal via Phaseolus vulgaris Hyperaccumulation
Manuel Carballo Greenwich, Greenwich High School Teacher - Andrew Bramante
- 3126 LS An investigation into the use of fruit peel filters to reduce the level of water contamination.
Jonathan Siveyer Fairfield, Fairfield College Preparatory School Teacher - Ms. Kiel
- 5508 P8 Natural Plastic: Milk Plastic Biodegradation vs. Commercial Plastic Degradation
Madison Lee Hartford, Sport and Medical Sciences Academy Teacher - Christine Demusz
- 6033 PS A Novel N-Doped Carbon Nanotube/Copper Electrode for the Reduction of CO₂ to Biofuel
Michelle Woo Greenwich, Greenwich High School Teacher - Mr. Andrew Bramante

AWARDS

Winning Projects of Regular Categories

Award	CSEF – Life Sciences					CSEF – Physical Sciences				
	LT	L7	L8	LS	LST	PT	P7	P8	PS	PST
1	1016	2022	2504	3086	3542	4027	5002	5537	6010	6523
2	1002	2005	2524	3013	3533	4028	5003	5545	6067	6517
3	1009	2033	2533	3151	3525	4007	5023	5525	6063	6513
4		2018	2528	3032			5025	5531	6005	
5		2014	2534	3010			5008	5508	6015	
M	1011	2001	2505	3007	3507	4004	5001	5504	6024	6504
M	1013	2023	2520	3061	3509	4011	5004	5519	6040	6505
M	1014	2037	2529	3066	3513	4020	5017	5523	6046	6508
M			2539	3074	3518	4021	5019	5530	6061	6516
M			2542	3109	3530	4025	5026	5555	6079	
M				3117			5032	5559	6085	
M				3125			5036	5564	6089	
M				3126			5038	5568	6098	
M				3149			5040			
M										
M										
M										
M										
M										
M										

Winning Projects of Special Categories

Award	Biotechnology			Urban Challenge		UTAS Engineering		
	7th grade	8th grade	9-12th gr	Middle	High	7th grade	8th grade	9-12 gr
1	2033	2537	6015	5508	3151	5038	5508	3013
2	2022	5508	3013	5531	6003	5001	5545	6005
3	5008	5555	3064	5025	3149	4027	5530	6053
4	2018	5564	3125	2534	3013	5008	4025	6013
5	2001	5530	3060	5545	3114	2005	4020	3060
M	2007	2501	3006	2020	3007	5004	4004	3109
M	2019	2513	3010	2513	3533	5022	5519	6003
M	2025	2533	3052	2542	6005		5536	6015
M	4013	4010	3109	5554	6098			6033
M	4014	5531	3117	5568	6523			6088
M								6089
M								6505
M								
M								

Winning Projects of Special Categories

Award	Computer Science		Mathematics		Applied Tech		Envir Science		
	Middle	High	Middle	High	Middle	High	Middle	High	
1	5539	6044	5008	3086	4025	6005	2504	3016	
2	4007	3086	2017	6074	4001	6027	5025	3074	
3	5004	6067		6030	5537	3136	1017	3007	
M	5535	6031		6067	2510	3072	2014	3015	3137
M	5559	6047		6510	4010	3542	2025	3021	3525
M		6049		6523	4021	6018	2510	3061	3533
M		6052			5503	6046	4001	3089	6010
M					5519	6051	4015	3098	6015
M					5525	6054	4025	3126	6072
M					5545	6076	5531	3129	6083
M					5559	6093			
M					5569	6528			
M									

Award	Energy		Sust Res	Fut Sust
	Middle	High	Middle	High
1	5555	6010	2504	6003
2	4021	6033	5537	3126
3	4004	6516	2537	6042
M	5002	6042	2014	3066
M	5003	6064	4001	3081
M	5032	6100	4020	3520
M	5506	6523	5025	6047
M			5504	6053
M			5508	6097
M			5518	6514
M				6519
M				6522
M				
M				

ISEF		Beyond CSEF	
Sponsor	Project	I-SWP	Genius
CSEF	3086	6003	3074
CSEF	3013	3016	3126
CSEF	6010	6519	5508
CSEF	6067		6033
Alexion	6015		
UTAS	3013		
USC	3151		

UTC		CSTA	CASE	QU	
Middle	High	Middle	High	Middle	High
2014	6010	2504	3086		3007
4020	6024	5537	3151		6005
5537	6030		6010		
5545					
5555					

STATS PLUS

Projects

Project Category	JrTm	7th	8th	Sr	SrTm	Total	%
Life Sciences	17	34	37	132	36	256	50%
Physical Sciences	27	38	71	97	24	257	50%
Total	44	72	108	229	60	513	
Percent	9%	14%	21%	45%	12%		

Project Grade	7	8	9	10	11	12	Total
Life Sciences	40	48	6	42	57	63	256
2Physical Sciences	45	91	6	26	44	45	257
Total	85	139	12	68	101	108	513
Percent	17%	27%	2%	13%	20%	21%	100%

Project Gender	7	8	9	10	11	12	Total
Male	39	62	6	39	52	58	256
Female	44	77	6	29	45	50	251
Not Given	2	0	0	0	4	0	6
Total	85	139	12	68	101	108	513

Students

Student Category	JrTm	7th	8th	Sr	SrTm	Total	%
Life Sciences	35	34	37	132	79	317	50%
Physical Sciences	58	38	71	97	51	315	50%
Total	93	72	108	229	130	632	
Percent	15%	11%	17%	36%	21%		100%

Student Grade	7	8	9	10	11	12	Total
Life Sciences	47	59	7	57	73	74	317
Physical Sciences	54	113	8	40	50	50	315
Total	101	172	15	97	123	124	632
Percent	16%	27%	2%	15%	19%	20%	100%

Student Gender	7	8	9	10	11	12	Total
Male	46	77	7	58	67	66	321
Female	53	95	8	39	52	58	305
Not Given	2	0	0	0	4	0	6
Total	101	172	15	97	123	124	632

Summary

Category	Students			Student Gender			Schools		
	Jr	Sr	Total	Male	Fem	Total	Jr	Sr	Total
Life Sciences	106	211	317	141	172	317			
Physical Sciences	167	148	315	180	133	315			
Total	273	359	632	321	305	632	61	58	116
Percent	43%	57%		51%	48%		Not to be totaled		

Category	Projects			Individual Projects			Team Projects		
	Jr	Sr	Total	Jr	Sr	Total	Jr	Sr	Total
Life Sciences	88	168	256	71	132	203	17	36	53
Physical Sciences	136	121	257	109	97	205	27	24	51
Total	224	289	513	180	229	409	44	60	104
Percent	44%	56%		44%	56%		42%	58%	

Awards

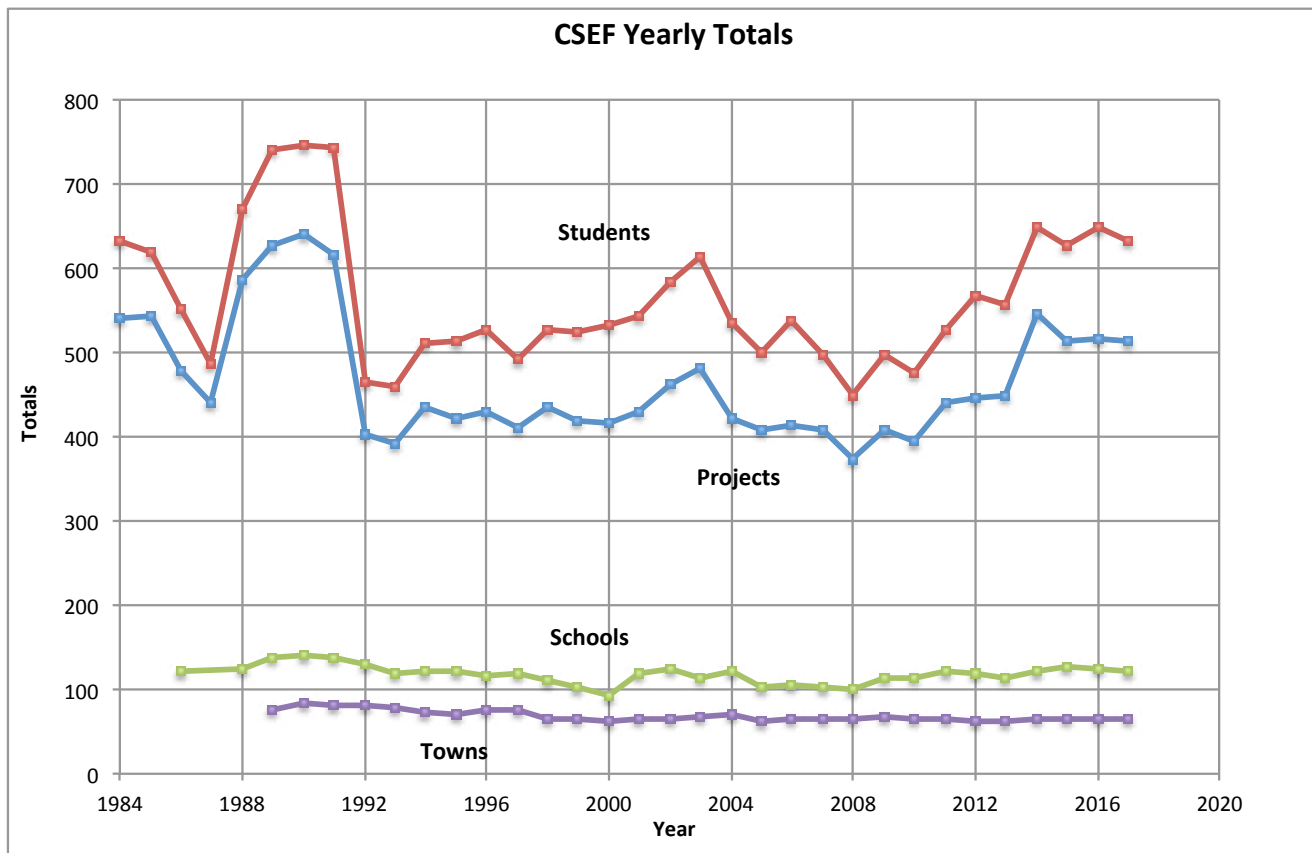
Regular = Reg + SpCat

Projects -->	Regular Awards			Special Awards			All Awards		
Category	Jr	Sr	Total	Jr	Sr	Total	Jr	Sr	Total
Life Sciences	34	37	71	25	35	60	43	58	101
Physical Sciences	49	49	98	39	41	80	59	61	120
Total	83	86	169	64	76	140	102	119	221
Percent	49%	51%		46%	54%		46%	54%	

Honors

Category	Hon	Projects				Students			
		Jr	Sr	Total	%	Jr	Sr	Total	%
Life Sciences	1	24	22	46		30	32	62	
Physical Sciences		35	20	55		45	28	73	
Sub Total		59	42	101	20%	75	60	135	21%
Life Sciences	2	37	82	119		43	101	144	
Physical Sciences		51	56	107		62	67	129	
Sub Total		88	138	226	44%	105	168	273	43%
Life Sciences	3	27	64	91		33	78	111	
Physical Sciences		50	45	95		60	63	113	
Sub Total		77	109	186	36%	93	131	224	35%
Total				513				632	

April 2017



Graph Note (also see pages 66 and 67) -

1988 - Junior Individuals (LJ, PJ) were separated into L7, L8 and P7, P8 to reduce size of categories for judging process.

1991- Senior Teams (LST, PST) were added to the fair categories.

1992 - Maximum reservations for middle schools was changed from 6 to 3 projects per school.

1993 - Maximum reservations for middle schools was changed to 4 projects per school by request of teachers.

2014 - Maximum reservations for middle schools was changed to 6 projects and high schools to 15 projects.

2016 - Maximum reservations for middle schools was changed to 10 projects and high schools to 15 projects.

General Data Totals by Year

Year	Location	Proj	Stu	Sch	Twn
1984	University of Connecticut, Storrs	540	634	----	---
1985	Quinnipiac College, Hamden	544	619	----	---
1986	Quinnipiac College, Hamden	478	552	121	---
1987	Connecticut College, New London	441	487	----	---
1988	Connecticut College, New London	587	671	124	---
1989	Trinity College, Hartford	627	740	138	75
1990	Trinity College, Hartford	642	746	142	85
1991	Quinnipiac College, Hamden	617	743	138	82
1992	Quinnipiac College, Hamden	403	465	130	81
1993	U.S. Coast Guard Academy, New London	393	461	119	78
1994	U.S. Coast Guard Academy, New London	435	511	123	72
1995	University of Connecticut, Storrs	421	513	121	70
1996	Connecticut College, New London	430	527	116	77
1997	Connecticut College, New London	410	491	119	75
1998	Quinnipiac College, Hamden	435	527	110	64
1999	Quinnipiac College, Hamden	419	525	102	65
2000	Quinnipiac College, Hamden	416	533	93	61
2001	Quinnipiac University, Hamden	430	543	118	65
2002	Quinnipiac University, Hamden	463	583	124	64
2003	Quinnipiac University, Hamden	482	613	114	68
2004	Quinnipiac University, Hamden	421	536	121	70
2005	Quinnipiac University, Hamden	407	501	103	63
2006	Quinnipiac University, Hamden	415	538	105	66
2007	Quinnipiac University, Hamden	407	498	103	65
2008	Quinnipiac University, Hamden	374	450	101	64
2009	Quinnipiac University, Hamden	409	498	114	68
2010	Quinnipiac University, Hamden	395	476	114	66
2011	Quinnipiac University, Hamden	442	526	122	66
2012	Quinnipiac University, Hamden	446	568	120	61
2013	Quinnipiac University, Hamden	448	557	113	61
2014	Quinnipiac University, Hamden	545	648	121	64
2015	Quinnipiac University, Hamden	514	628	127	66
2016	Quinnipiac University, Hamden	517	648	125	66
2017	Quinnipiac University, Hamden	513	632	116	63

Project Category Totals by Year

Year	LT	L7	LJ	L8	LS	LST	PT	P7	PJ	P8	PS	PST
1984	58	-	137	-	74	--	36	-	162	-	73	--
1985	41	-	155	-	68	--	34	-	175	-	71	--
1986	36	-	125	-	60	--	38	-	152	-	67	--
1987	26	-	<u>136</u>	-	63	--	20	-	<u>157</u>	-	39	--
1988	37	70		89	47	--	47	94		144	59	--
1989	56	76		93	64	--	57	91		121	69	--
1990	63	105		89	83	--	41	78		102	81	--
1991	56	80		87	75	6	56	67		110	74	6
1992	32	35		60	79	7	23	45		60	62	0
1993	37	53		58	47	4	23	45		74	49	3
1994	31	40		70	64	14	25	49		88	51	3
1995	34	46		57	60	11	37	53		68	50	5
1996	40	42		64	53	14	37	44		76	54	6
1997	35	51		49	60	11	32	41		80	49	2
1998	35	58		61	56	15	30	58		54	58	10
1999	40	46		39	63	18	39	49		63	58	4
2000	46	46		44	62	11	43	42		59	50	13
2001	36	47		56	78	7	54	38		56	45	13
2002	43	44		63	74	27	36	47		59	58	12
2003	39	54		57	59	32	42	44		78	64	13
2004	32	40		44	67	16	42	38		65	58	19
2005	21	35		48	54	24	35	51		72	56	11
2006	22	25		46	48	29	33	47		76	63	26
2007	20	38		28	66	16	38	48		65	76	12
2008	19	38		46	59	29	14	47		51	61	10
2009	24	40		35	83	18	27	53		44	69	16
2010	19	30		36	75	16	23	52		61	65	18
2011	22	31		42	85	11	25	60		62	86	18
2012	27	34		43	92	20	34	44		54	74	24
2013	20	31		38	89	14	44	53		58	86	15
2014	17	45		43	144	17	29	55		65	109	21
2015	25	41		43	118	25	31	62		64	91	14
2016	32	63		53	105	22	38	39		68	71	26
2017	17	34		37	132	36	27	38		71	97	24

STATS PLUS

Town	School	Type, No Res, Path & UC	Reserved		Registered		Entered			
			J1	S1	J2	S2	J3	S3	P3	St3
Project Type: 2 = High or High/ Middle School, 1 = Middle School Only										
Avon	Avon High School	2 - - -	0	2	-	2	-	2	2	3
Avon	Talcott Mountain Academy	1 - - -	6	0	6	-	6	-	6	6
Baltic	Sayles School	1 - - -	2	0	1	-	1	-	1	1
Bethany	Amity Reg Middle School - Bethany Campus	1 - - -	10	0	13	-	13	-	13	21
Bethel	Bethel High School	2 - - -	0	6	-	6	-	6	6	6
Bethel	St. Mary School	1 - - -	7	0	7	-	7	-	7	8
Bloomfield	Eakins Homeschool	1 - hs -	1	0	-	-	-	-	-	-
Bolton	Bolton High School	2 - - -	0	1	-	1	-	1	1	1
Bozrah	Fields Memorial School	1 - - -	4	0	4	-	4	-	4	4
Bridgeport	Black Rock School	1 x bp x	0	0	1	-	1	-	1	1
Bridgeport	Blackham School	1 x bp x	0	0	1	-	1	-	1	2
Bridgeport	Bridgeport Military Academy	2 x bp x	0	0	-	2	-	2	2	3
Bridgeport	Bridgeport Regional Aquaculture Center	2 - - x	0	10	-	10	-	10	10	10
Bridgeport	Bridgeport Regional Aquaculture Center - BCF	2 x bp x	0	0	-	5	-	5	5	7
Bridgeport	Bridgeport School District	2 - bp x	10	15	-	-	-	-	-	-
Bridgeport	Fairchild Wheeler Magnet High School	2 x bp x	0	0	-	6	-	6	6	8
Bridgeport	High Horizons Magnet School	1 x bp x	0	0	3	-	3	-	3	5
Bridgeport	John Winthrop School	1 x bp x	0	0	1	-	1	-	1	1
Bridgeport	Luis Munoz Marin School	1 x bp x	0	0	-	-	-	-	-	-
Bridgeport	Multicultural Magnet School	1 x bp x	0	0	2	-	2	-	2	2
Bridgeport	Park City Magnet School	1 x bp x	0	0	1	-	1	-	1	1
Bridgeport	Park City Prep Charter School	1 - - x	10	0	10	-	10	-	10	11
Bridgeport	Read School	1 x bp x	0	0	1	-	1	-	1	1
Bridgeport	Roosevelt School	1 x bp x	0	0	1	-	1	-	1	1
Bridgeport	Warren Harding High School	2 x bp x	0	0	-	1	-	1	1	1
Bristol	St. Paul Catholic High School	2 - - -	0	1	-	1	-	1	1	1
Canton	Canton High School	2 - - -	0	5	-	5	-	5	5	5
Cheshire	Dodd Middle School	1 - - -	1	0	1	-	1	-	1	1
Cheshire	St. Bridget School	1 - - -	2	0	2	-	2	-	2	2
Danbury	Abbott Technical High School	2 x gs -	0	0	-	2	-	1	1	2
Danbury	Danbury High School	2 - - x	0	2	-	2	-	2	2	2
Danbury	Immaculate High School	2 - - -	0	1	-	1	-	1	1	1
Danbury	St. Gregory the Great School	1 - - -	8	0	8	-	8	-	8	15
Danbury	St. Joseph School	1 - - -	10	0	10	-	8	-	8	10
Danbury	Westside Middle School Academy	1 - - x	10	0	10	-	9	-	9	9
Danbury	Wooster School	2 - - -	0	1	-	1	-	1	1	1
Darien	Darien High School	2 - - -	0	15	-	15	-	15	15	15
East Hartford	St. Christopher School	1 - - -	2	0	2	-	2	-	2	2
Enfield	St. Martha School	1 - - -	4	0	1	-	1	-	1	1
Fairfield	Fairfield College Preparatory School	2 - - -	0	5	-	5	-	4	4	6
Fairfield	Fairfield Ludlowe High School	2 - - -	0	1	-	1	-	1	1	1
Fairfield	Notre Dame Catholic High School	2 - - -	0	1	-	1	-	1	1	1
Farmington	Irving A. Robbins Middle School	1 - - -	1	0	1	-	1	-	1	1
Fishers Island	Fishers Island School	2 - - -	0	6	-	3	-	3	3	4
Glastonbury	Glastonbury High School	2 - - -	3	15	-	13	-	13	13	13
Greens Farms	Greens Farms Academy	2 - - -	0	9	-	7	-	6	6	6
Greenwich	Brunswick School	2 - - -	0	15	-	13	-	13	13	19
Greenwich	Convent of the Sacred Heart	2 - - -	0	3	-	-	-	-	-	-
Greenwich	Greenwich Catholic School	1 - - -	4	0	4	-	4	-	4	6
Greenwich	Greenwich High School	2 - - -	0	18	-	18	-	18	18	18
Groton	Sacred Heart School	1 - - -	10	0	8	-	6	-	6	6
Hamden	Hamden High School	2 - - x	0	8	-	6	-	5	5	5
Hamden	Hamden Middle School	1 - - x	2	0	2	-	2	-	2	2
Hamden	Sacred Heart Academy	2 - - -	0	12	-	6	-	6	6	6
Hartford	Environmental Sci Magnet Sch at Mary Hooker	1 - - x	10	0	9	-	9	-	9	10
Hartford	Green STEP	2 - gs -	0	16	-	-	-	-	-	-
Hartford	Prince Technical High School	2 x gs -	0	0	-	2	-	2	2	4
Hartford	Sport and Medical Sciences Academy	1 - - x	1	0	1	-	1	-	1	1
Hebron	Oei Homeschool	1 - hs -	1	0	1	-	1	-	1	1
Hebron	RHAM High School	2 - - -	0	1	-	-	-	-	-	-
Kensington	St. Paul School	1 - - -	3	0	3	-	3	-	3	3

School Tracking

Town	School	Type, No Res, Path & UC	Reserved		Registered		Entered			
			J1	S1	J2	S2	J3	S3	P3	St3
Project Type: 2 = High or High/ Middle School, 1 = Middle School Only										
Lakeville	The Hotchkiss School	2 - - -	0	1	-	1	-	1	1	1
Madison	Daniel Hand High School	2 - - -	0	1	-	1	-	1	1	1
Madison	Walter Polson Middle School	1 - - -	1	0	1	-	1	-	1	1
Manchester	Manchester High School	2 - - x	0	4	-	-	-	-	-	-
Meriden	ACES Thomas Edison Middle School	1 - - x	10	0	10	-	10	-	10	16
Meriden	St. Joseph School	1 - - -	6	0	6	-	6	-	6	6
Middlebury	Memorial Middle School	1 - - -	1	0	1	-	1	-	1	1
Middletown	Vinal Technical High School	2 x gs -	0	0	-	2	-	-	-	-
Milford	Platt Technical High School	2 x gs -	0	0	-	1	-	1	1	2
Monroe	St. Jude School	1 - - -	2	0	2	-	2	-	2	2
New Britain	CREC Academy of Science and Innovation	2 - - x	0	1	-	1	-	1	1	1
New Britain	Goodwin Technical High School	2 x gs -	0	0	-	2	-	2	2	5
New Canaan	St. Aloysius School	1 - - -	2	0	2	-	2	-	2	6
New Haven	Bruder Homeschool	2 - hs -	0	1	-	1	-	1	1	1
New Haven	Common Ground High School	2 - - x	0	1	-	1	-	-	-	-
New Haven	Engineering Science University Magnet School+	2 - - x	10	4	7	4	4	4	8	9
New Haven	Hill Regional Career High School	2 - - x	0	2	-	2	-	-	-	-
New Haven	St. Aedan-St. Brendan School	1 - - -	4	0	4	-	1	-	1	1
New Haven	Wilbur Cross High School	2 - - x	0	2	-	2	-	2	2	2
New Haven	Worthington Hooker Middle School	1 - - x	8	0	6	-	6	-	6	7
New London	Science and Technology Magnet HS of SE CT	2 - - x	0	20	-	19	-	18	18	24
New London	St. Joseph School	1 - - -	4	0	4	-	4	-	4	4
New Milford	New Milford High School	2 - - -	0	7	-	6	-	2	2	4
Newtown	St. Rose of Lima School	1 - - -	4	0	4	-	3	-	3	3
North Haven	North Haven Middle School	1 - - -	4	0	-	-	-	-	-	-
Norwalk	Roton Middle School	1 - - x	4	0	3	-	2	-	2	3
Norwich	Norwich Technical High School	2 - - -	0	15	-	18	-	18	18	34
Orange	Amity Reg Middle School - Orange Campus	1 - - -	6	0	5	-	5	-	5	5
Oxford	Oxford High School	2 - - -	0	7	-	3	-	1	1	1
Pawcatuck	St. Michael School	1 - - -	4	0	4	-	4	-	4	4
Plantsville	J.F. Kennedy Middle School	1 - - -	8	0	8	-	8	-	8	12
Pomfret	Pomfret School	2 - - -	0	1	-	1	-	1	1	1
Redding	CT STEM Fair	2 - cs -	0	7	-	6	-	4	4	4
Redding	Joel Barlow High School	2 - - -	0	16	-	16	-	11	11	13
Ridgefield	Ridgefield High School	2 - - -	0	5	-	1	-	1	1	1
Salisbury	Salisbury School	2 x - -	0	0	-	-	-	-	-	-
Sandy Hook	Newtown High School	2 - - -	0	3	-	3	-	3	3	3
Shelton	Shelton High School	2 - - -	0	8	-	8	-	8	8	8
Shelton	Shelton Intermediate School	1 - - -	3	0	3	-	3	-	3	4
Shelton	St. Joseph School	1 - - -	4	0	4	-	4	-	4	5
Simsbury	Westminster School	2 - - -	0	3	-	3	-	3	3	3
Southington	J.A. DePaolo Middle School	1 - - -	8	0	5	-	4	-	4	4
Southington	Southington Catholic School	1 - - -	2	0	2	-	2	-	2	2
Stamford	Bi-Cultural Day School	1 - - -	4	0	4	-	4	-	4	6
Stamford	The Beacon School	2 - - -	2	3	-	1	-	-	-	-
Storrs	EO Smith High School	2 - - -	0	1	-	1	-	1	1	1
Stratford	St. Mark School	1 - - -	6	0	6	-	6	-	6	8
Suffield	Suffield High School	2 - - -	0	15	-	12	-	10	10	15
Suffield	Suffield Middle School	1 - - -	4	0	2	-	2	-	2	2
Tolland	Stonewall Academy Homeschool	2 - hs -	0	1	-	-	-	-	-	-
Trumbull	Christian Heritage School+	2 - - -	4	4	4	3	4	3	7	7
Trumbull	St. Joseph High School	2 - - -	0	7	-	3	-	3	3	5
Trumbull	Trumbull High School	2 - - -	0	7	-	6	-	5	5	5
Washington Depot	Rumsey Hall	1 - - -	1	0	-	-	-	-	-	-
Waterford	Waterford High School	2 - - -	0	1	-	1	-	1	1	1
Watertown	The Taft School	2 - - -	0	1	-	1	-	1	1	1
West Hartford	Hebrew High School of New England	2 - - -	0	3	-	2	-	2	2	2
West Hartford	King Philip Middle School	1 - - -	1	0	1	-	1	-	1	1
West Hartford	Solomon Schechter Day School	1 - - -	2	0	1	-	1	-	1	1
West Hartford	St. Brigid-St. Augustine School	1 - - -	4	0	3	-	3	-	3	3
West Hartford	St. Timothy Middle School	1 - - -	4	0	4	-	4	-	4	4

Town	School	Type, No Res, Path & UC	Reserved		Registered		Entered			
			J1	S1	J2	S2	J3	S3	P3	St3
Project Type: 2 = High or High/ Middle School, 1 = Middle School Only										
Weston	Weston Middle School	1 - - -	5	0	5	-	5	-	5	5
Westport	Staples High School	2 - - -	0	4	-	3	-	3	3	3
Wilton	Middlebrook Middle School	1 - - -	4	0	4	-	4	-	4	4
Windsor	Academy of Aerospace and Engineering	2 - - x	0	15	-	10	-	6	6	9
Windsor	Academy of Aerospace and Engineering - MS	1 - - x	9	0	1	-	-	-	-	-
Windsor	Greater Hartford Academy of Math and Science	2 - - x	0	15	-	9	-	7	7	12
Windsor	Madina Academy+	2 - - -	5	4	2	4	2	3	5	9
Windsor	St. Gabriel School	1 - - -	4	0	2	-	2	-	2	2
Windsor	The Loomis Chaffee School	2 - - -	0	1	-	1	-	-	-	-
Woodbridge	Amity Regional High School	2 - - -	0	30	-	30	-	30	30	34
Woodbridge	Ezra Academy	1 - - -	5	0	4	-	4	-	4	4
Schools = 133			281	390	239	324	224	289	513	632

Abbreviations: bp = Bridgeport Public, cs = CT STEM Fair, hs or I = Homeschool/Independent, x = Urban Challenge, gs = Green Step, J, S, P = Junior, Senior, and Jr + Sr Projects, St = Students

School Summary for 2017

	Sch	Proj	Stu
School Reservations	133	671	----
Sch Approved Proj	122	563	----
Sch Entering Fair	116	513	632

2017 CSEF Schools	
Total Contacts	133
Approved	122
In Fair	116

Registered Schools = 114

- Regular Schools = 110
- Homeschools = 004

Non-Registered Schools = 19

- Bridgeport Pub Schs = 13
- Green Step Schools = 05
- School not available = 01

Returning Students

Yrs	Student	Hometown	Grade	School	SchTown	Honors
6 Years - 3 Students						
6	Agarwal Aakshi	Hamden	12	Hamden High School	Hamden	1
6	Roychoudhury Ankita	Madison	12	Daniel Hand High School	Madison	2
6	Siveyer Jonathan	Monroe	12	Fairfield College Preparatory School	Fairfield	1
5 Years - 4 Students						
5	Geradi Maya	New Haven	11	Wilbur Cross High School	New Haven	1
5	Krawczuk Kamila	New Britain	11	St. Paul Catholic High School	Bristol	2
5	Low Lauren	Hamden	12	Engineering Science University Magnet Sch	New Haven	1
5	Saxe Sarah	Woodbridge	12	Amity Regional High School	Woodbridge	3
4 Years - 8 Students						
4	Agarwal Akshar	Hamden	10	Hamden High School	Hamden	2
4	Ames Nolan	Danbury	11	Immaculate High School	Danbury	3
4	Baker Katherine	Suffield	12	Suffield High School	Suffield	3
4	Kirschbaum Caitlin	Suffield	12	Suffield High School	Suffield	3
4	Mohammed Alina	Windsor	10	Madina Academy	Windsor	2
4	Mohanraj Prastik	Ansonia	10	Engineering Science University Magnet Sch	New Haven	3
4	Novek Ethan	Greenwich	12	Greenwich High School	Greenwich	1
4	Zaidi Humza	Avon	11	Avon High School	Avon	2
3 Years - 26 Students						
3	Choudhury Jareen	Bloomfield	11	Madina Academy	Windsor	1
3	Clark Benjamin	Bridgeport	10	Notre Dame Catholic High School	Fairfield	3
3	Cloud Abigail	Bridgeport	10	St. Joseph High School	Trumbull	1
3	Criscuolo Emily	Woodbridge	12	Amity Regional High School	Woodbridge	3
3	D'Ostuni Madison	Suffield	12	Suffield High School	Suffield	3
3	Ding Howard	Woodbridge	11	Amity Regional High School	Woodbridge	3
3	Edelstein Sophie	New Haven	10	Wilbur Cross High School	New Haven	1
3	Feuerstein Jacob	Woodbridge	10	Amity Regional High School	Woodbridge	2
3	Handler Katherine	Woodbridge	12	CT STEM Fair	Redding	1
3	He James	Woodbridge	12	CT STEM Fair	Redding	2
3	Hora Niyati	Glastonbury	11	Glastonbury High School	Glastonbury	2
3	Jain Siddharth	Shelton	9	Shelton High School	Shelton	2
3	Johnson Sarah	Danbury	9	Danbury High School	Danbury	2
3	Kachru Ananya	Woodbridge	11	Amity Regional High School	Woodbridge	2
3	Kerr Bradley	Danbury	9	Danbury High School	Danbury	1
3	Koenigsberg Batya	New Haven	10	Hebrew High School of New England	West Hartford	2
3	Kondapalli Sumanth	Milford	10	Engineering Science University Magnet Sch	New Haven	1
3	Lee Benjamin	Woodbridge	8	Amity Reg Middle School - Bethany Campus	Bethany	1
3	Mehta Yash	Suffield	12	Suffield High School	Suffield	2
3	Patel Rohan	Orange	12	Amity Regional High School	Woodbridge	2
3	Shafran Ashley	Southington	11	Greater Hartford Academy of Math and Sci	Windsor	3
3	Sherman-Watson Chloe	New London	12	Science and Technology Magnet HS	New London	3
3	Sudhir Neha	Woodbridge	10	Amity Regional High School	Woodbridge	2
3	Werenski Jason	Suffield	12	Suffield High School	Suffield	2
3	Yin William	Riverside	12	Greenwich High School	Greenwich	2
3	Ziobron Amy	Cheshire	11	Sacred Heart Academy	Hamden	2
2 Years - 122 Students						
2	Abirached Rebecca	Bridgeport	8	High Horizons Magnet School	Bridgeport	2
2	Adnane Majda	Meriden	8	ACES-Thomas Edison Middle School	Meriden	3
2	Ahmed Radeyah	Bloomfield	10	Madina Academy	Windsor	1
2	Akin Jessica	Windsor	8	St. Gabriel School	Windsor	2
2	Allen Thaddeus	New London	12	Fishers Island School	Fishers Island	2
2	Alveranga Karim	Bridgeport	11	Warren Harding High School	Bridgeport	3
2	Aponte Adriana	Meriden	8	ACES Thomas Edison Middle School	Meriden	3
2	Bairat Arya	Milford	9	Engineering Science University Magnet Sch	New Haven	2
2	Baldini Christopher	West Hartford	8	St. Timothy Middle School	West Hartford	2
2	Bhagavatula Anika	Wilton	8	Middlebrook Middle School	Wilton	1

STATS PLUS

Yrs	Student	Hometown	Grade	School	SchTown	Honors	
2	Bi	Jimmy	Woodbridge	12	Amity Regional High School	Woodbridge	3
2	Bolle	Leon	Groton	12	Science and Technology Magnet HS	New London	3
2	Boudreau	Antonios	Ansonia	8	Park City Prep Charter School	Bridgeport	1
2	Bruder	Ben	New Haven	10	Bruder Homeschool	New Haven	2
2	Burdick	Chris	Riverside	11	Brunswick School	Greenwich	1
2	Burnett	John	Ledyard	11	Science and Technology Magnet HS	New London	2
2	Cai	Danielle	Glastonbury	11	Glastonbury High School	Glastonbury	1
2	Camel	Edward	Greenwich	11	Brunswick School	Greenwich	2
2	Cardenas	Monica	Bridgeport	8	Park City Prep Charter School	Bridgeport	3
2	Casey	Kathleen	Avon	8	Talcott Mountain Academy	Avon	2
2	Castellano	Pio	Plantsville	8	J.F. Kennedy Middle School	Plantsville	3
2	Cook	Kaya	Middletown	8	ACES Thomas Edison Middle School	Meriden	2
2	Cosme	Alennie	Hartford	8	Environmental Sci Mag Sch at Mary Hooker	Hartford	2
2	Coyle	Margaret	Southington	8	J.F. Kennedy Middle School	Plantsville	3
2	DiBella	Simone	Bridgeport	10	Bridgeport Reg Aquaculture Center - BCF	Bridgeport	2
2	Dixit	Agrani	Woodbridge	11	Amity Regional High School	Woodbridge	2
2	Driscoll	Jack	Greenwich	11	Brunswick School	Greenwich	2
2	Du	Rosie	New Haven	10	Amity Regional High School	Woodbridge	2
2	Dubovik	Ulada	Orange	11	Amity Regional High School	Woodbridge	2
2	Dziekani	Brianna	Baltic	11	Norwich Technical High School	Norwich	2
2	ElSherbini	Ayman	Windsor	10	Madina Academy	Windsor	2
2	Emerson	Matthew	Broad Brook	8	St. Martha School	Enfield	2
2	Fahey	Thomas	Danbury	8	St. Gregory the Great School	Danbury	2
2	Fanelli	Gianna	Danbury	8	St. Gregory the Great School	Danbury	2
2	Garvey	Grace	Bethel	8	St. Mary School	Bethel	2
2	Gerig	Virginia	Westport	12	Staples High School	Westport	2
2	Gray	Katie	Oxford	10	Sacred Heart Academy	Hamden	3
2	Greifenberger	Courtney	Orange	11	Amity Regional High School	Woodbridge	2
2	Gunawardana	Sumudu	Easton	11	Joel Barlow High School	Redding	3
2	Haddad	Elias	Danbury	8	St. Joseph School	Danbury	2
2	Halas	Olivia	Danbury	8	St. Gregory the Great School	Danbury	2
2	Hawley	Bennett	Cos Cob	10	Greenwich High School	Greenwich	2
2	Heaphy	Eva	New Haven	8	Engineering Science University Magnet Sch	New Haven	2
2	Homma	Reshana	Glastonbury	12	Glastonbury High School	Glastonbury	2
2	Huang	Austin	Uncasville	11	Science and Technology Magnet HS	New London	2
2	Immanuel	Judah	Woodbridge	11	Christian Heritage School	Trumbull	2
2	Jacobson	Matthew	Greenwich	11	Brunswick School	Greenwich	2
2	Jargalan	Taivan	New Haven	8	Worthington Hooker Middle School	New Haven	3
2	Kale	Soham	Glastonbury	12	Glastonbury High School	Glastonbury	2
2	Kasak	Chloe	Sandy Hook	12	Newtown High School	Sandy Hook	3
2	Kosior	Faith	Southington	8	J.A. DePaolo Middle School	Southington	2
2	Kral	Jacqueline	Lisbon	12	Science and Technology Magnet HS	New London	2
2	Kummamuru	Hardhik	Windsor Locks	10	CREC Academy of Science and Innovation	New Britain	2
2	Lawlor	Julia	Southport	12	Bridgeport Regional Aquaculture Center	Bridgeport	1
2	Lee	Eunji	Trumbull	11	Sacred Heart Academy	Hamden	1
2	Lee	Madison	Rocky Hill	8	Sport and Medical Sciences Academy	Hartford	1
2	LeMay	William	Newtown	12	Newtown High School	Sandy Hook	3
2	Li	Connor	Cos Cob	12	CT STEM Fair	Redding	2
2	Li	Vince	Orange	11	Amity Regional High School	Woodbridge	3
2	Livesay	Thomas	Woodbridge	10	Amity Regional High School	Woodbridge	2
2	Luzzio	Michael	Groton	8	Sacred Heart School	Groton	2
2	MacIntyre	Jessica	Bethel	12	Bethel High School	Bethel	2
2	Malloy	Mary	Mystic	8	St. Michael School	Pawcatuck	1
2	McCormack	Kelsey	Orange	12	Amity Regional High School	Woodbridge	2
2	McNamara	Eric	Danbury	8	St. Gregory the Great School	Danbury	2
2	Meehan	Anna	Bethel	8	St. Mary School	Bethel	3
2	Michaud	Courtney	Norwich	11	Norwich Technical High School	Norwich	2
2	Miller	Keegan	Bristol	8	Environmental Sci Mag Sch at Mary Hooker	Hartford	2
2	Millott	Liam	Milford	8	St. Mark School	Stratford	2
2	Missios	Athena	Uncasville	11	Norwich Technical High School	Norwich	2

Returning Students

Yrs	Student	Hometown	Grade	School	SchTown	Honors	
2	Mitchell	Mikaela	Meriden	8	ACES Thomas Edison Middle School	Meriden	1
2	Mohammed	Ahmad	Windsor	8	Madina Academy	Windsor	1
2	Molot	Henry	Woodbridge	11	Amity Regional High School	Woodbridge	3
2	Mukherjee	Avi	Stamford	11	Brunswick school	Greenwich	1
2	Nordgren	Travis	Griswold	11	Norwich Technical High School	Norwich	3
2	Oei	John	Hebron	8	Oei Homeschool	Hebron	1
2	Oliveras	Brianna	Meriden	8	ACES Thomas Edison Middle School	Meriden	1
2	Papotto	Christopher	Colchester	11	Norwich Technical High School	Norwich	2
2	Park	Sebin	Woodbridge	11	Amity Regional High School	Woodbridge	2
2	Pawlowski	Lauren	Shelton	11	Shelton High School	Shelton	2
2	Peck	Marissa	Shelton	12	Shelton High School	Shelton	3
2	Peisch	Wesley	Greenwich	11	Brunswick School	Greenwich	3
2	Piraneque	Cristian	Trumbull	11	Christian Heritage School	Trumbull	2
2	Pourkavoos	Aresh	Avon	8	Talcott Mountain Academy	Avon	2
2	Raslavsky	Nicholas	Danbury	8	Westside Middle School Academy	Danbury	2
2	Reeves	Natalie	Southington	8	Environmental Sci Mag Sch at Mary Hooker	Hartford	1
2	Rego	Connor	Winsted	8	Environmental Sci Mag Sch at Mary Hooker	Hartford	2
2	Restieri	Matt	Riverside	11	Brunswick School	Greenwich	1
2	Riggs	Matthew	Danbury	8	St. Joseph School	Danbury	1
2	Roche	Gianpierre	Willimantic	11	Norwich Technical High School	Norwich	3
2	Rock	Tessa	New London	11	Science and Technology Magnet HS	New London	2
2	Saah	Nick	Darien	11	Brunswick School	Greenwich	2
2	Sadow	Dylan	Plantsville	8	J.F. Kennedy Middle School	Plantsville	2
2	Scannell	Thacher	Stamford	11	Brunswick School	Greenwich	1
2	Schloss	Tyler	Cromwell	8	Environmental Sci Mag Sch at Mary Hooker	Hartford	2
2	Service	Zachariah	Suffield	11	Suffield High School	Suffield	3
2	Signore	Sarah	Norwalk	8	Roton Middle School	Norwalk	1
2	Silliman	Jacob	Woodbridge	11	Amity Regional High School	Woodbridge	3
2	Siveyer	Steven	Monroe	10	Fairchild Wheeler Magnet High School	Bridgeport	2
2	Snyder	Ariella	West Hartford	10	Hebrew High School of New England	West Hartford	2
2	Snyder	Charles	Stonington	12	Fishers Island School	Fishers Island	2
2	Soto	Steven	Danbury	8	St. Joseph School	Danbury	1
2	Stackpole	Kassidy	Uncasville	11	Norwich Technical High School	Norwich	3
2	Stefani	Agustina	Greenwich	12	Greenwich High School	Greenwich	1
2	Stimpson	Johnathan	Darien	12	Darien High School	Darien	3
2	Stober	Haley	Old Greenwich	11	Greenwich High School	Greenwich	1
2	Stollman	Ryan	Colchester	11	Norwich Technical High School	Norwich	2
2	Subramaniam	Rahul	Cos Cob	10	Greenwich High School	Greenwich	1
2	Sundaram	Shobhita	Greenwich	11	Greenwich High School	Greenwich	1
2	Syme	Gryffin	Danbury	8	Westside Middle School Academy	Danbury	1
2	Tempesta	Kyle	Uncasville	11	Norwich Technical High School	Norwich	2
2	Vipparla	Rachna	Milford	8	Engineering Science University Magnet Sch	New Haven	1
2	Wang	Sophie	Waterford	11	Waterford High School	Waterford	2
2	West	Elyssa	Meriden	8	ACES Thomas Edison Middle School	Meriden	3
2	Wolfram	Greyson	Riverside	11	Brunswick School	Greenwich	1
2	Woo	Michelle	Riverside	11	Greenwich High School	Greenwich	2
2	Xiong	Michelle	Riverside	11	Greenwich High School	Greenwich	1
2	Yanagisawa	Kevin	Woodbridge	11	Amity Regional High School	Woodbridge	2
2	Yastremski	Nora	Danbury	8	St. Joseph School	Danbury	2
2	Yuan	Kate	Woodbridge	10	Amity Regional High School	Woodbridge	2
2	Zhang	Haixiang	Fairfield	11	Fairfield College Preparatory School	Fairfield	3
2	Zuklie	Jacob	Shelton	11	Shelton High School	Shelton	3

Total Returns = 163 Students

International Competitions

Intel ISEF

May 14 - 19, 2017
Los Angeles, California

I-SWEEEP

May 03 - 08, 2017
Houston, Texas

GENIUS Olympiad

June 12 - 17, 2017
Oswego, New York

Competitors in International Competitions

Intel ISEF

An unusual situation affects the winners of the Life Sciences category traveling to ISEF.

1st Place - Shobhita Sunaram has already won a trip to ISEF from the CT STEM Fair

2nd Place - Sophie Edelstein has already won a trip to ISEF from the UTAS Engineering category

3rd Place - Maya Geradi has already won a trip to ISEF from the Urban School Challenge category

Therefore, representing Life Sciences at ISEF will be the 4th and 5th Place winners.

Life Sciences

Luca Barcelo Greenwich, Greenwich High School
Rahul Subramaniam Greenwich, Greenwich High School

Physical Sciences

Ethan Novek Greenwich, Greenwich High School
Eunji Lee Hamden, Sacred Heart Academy

Alexion Biotechnology

Michelle Xiong Greenwich, Greenwich High School

Urban School Challenge

Maya Geradi, New Haven, Wilbur Cross High School

UTAS Engineering

Sophie Edelstein New Haven, Wilbur Cross High School

CT STEM Fair

Shobhita Sundaram Greenwich, Greenwich High School

I-SWEEEP

Steven Siveyer Bridgeport, Fairchild Wheeler Magnet High School
Sophie Wang Waterford, Waterford High School
John Burnett and Austin Huang (team)
 New London, Science & Technology Magnet

GENIUS Olympiad

Manuel Carballo Greenwich, Greenwich High School
Jonathan Siveyer Fairfield, Fairfield College Preparatory School
Madison Lee Hartford, Sport and Medical Sciences Academy
Michelle Woo Greenwich, Greenwich High School

ISEF Abstracts - CSEF Life Sciences**NAME: Luca Barcelo**

SCHOOL: Greenwich High School, Greenwich

TEACHER/MENTOR: Andrew Bramante

TITLE: Crowd-Sourced Detection and Mapping of Nitrate Water Pollutants via a Mobile Web- Based Image Analysis System

Countless fertilizers and plant-conditioning products utilize nitrates, which when presented into an ecosystem with surrounding bodies of water, catalyze the dangerous process of eutrophication.

Eutrophication is both a rapid process and difficult to detect due to the volatility of nitrate influx into bodies of water. During the day phytoplankton populations grow exponentially where nitrates are present in abundance, while at night most die off, which results in a serious drop in dissolved oxygen levels during the night because of decomposers. To combat this drop in dissolved oxygen levels effectively, a crowd-sourcing detection method is essential in order to accurately, efficiently, and rapidly tag problematic zones. Furthermore, by introducing both a Sulphanilamide coupled with N-(1- naphthyl)-ethylenediamine dihydrochloride compound, and zinc powder into the water sample, and by measuring the color emitted from the solution, through image analysis and supervised machine learning—once both compounds are added to the water sample—the mobile platform will be able to measure the quantity of nitrates that are present in the given water source. The mobile image analysis system uses a picture's RGB values to correlate color intensity to nitrate concentration through an R-based shiny web-based application. Through the implementation of colorimetric analysis of given solutions by the utilization of the user's phone camera, one may attain information on nitrate concentration levels in the tested body of water, which will be uploaded to a database that all contributors may access, thus allowing for the general population to acquire knowledge about their surrounding aqueous environments.

NAME: Rahul Subramaniam

SCHOOL: Greenwich High School, Greenwich

TEACHER/MENTOR: Andrew Bramante

TITLE: An Early Warning System For Zika Virus in Mosquito Populations Based On Real-Time Field Detection of Viral RNA In Mosquito Saliva

The Zika virus (ZIKV) epidemic is an urgent global health crisis. While RT-PCR is the gold standard for detecting ZIKV, a lengthy turnaround time (2-4 weeks) and laboratory data analysis can lead to infection of additional individuals, especially in areas with limited infrastructure. This study describes development of an early warning system for ZIKV in mosquito populations via real-time detection of the virus in mosquito saliva without further lab analysis, allowing quarantine measures while PCR tests are run. Designed as an all-in-one unit, a low-cost mosquito trap was constructed that effectively collects mosquito saliva and used to demonstrate that virus would be deposited into the trap in a field scenario. Saliva from live mosquitoes deposited into a 10% sucrose foodsource was detected using bioluminescence to follow activity of apyrase, an enzyme in mosquito saliva. To detect ZIKV in the trap without human interaction, a colorimetric gold nanoparticle (AuNP) assay specific to ZIKV was devised and incorporated in the foodsource. Aggregation of these DNAzyme-functionalized AuNPs is only observed in the presence of ZIKV RNA and is temperature-independent. At ZIKV RNA concentrations 10 times less than that contained in mosquito saliva, positive virus detection is easily discernible, even by non-experts, as a red-to-colorless change in situ within 15 minutes. As an early warning system (trap-AuNP assay combined) placed in the field, the rapid detection of ZIKV-infected mosquitoes allows immediate quarantining of the vicinity until further tests are conducted, thus preventing the spread of virus to local residents.

ISEF Abstracts - CSEF Physical SciencesNAME: **Ethan Novek**

SCHOOL: Greenwich High School, Greenwich

TEACHER/MENTOR: Andrew Bramante

TITLE: Novel Low-Temperature Carbon Capture Using Aqueous Ammonia and Organic Solvents

Current post-combustion CO₂ capture technologies are energy intensive, require high temperature heat sources, and dramatically increase the cost of power generation. This work introduces a new carbon capture process requiring significantly lower temperatures and less energy, creating further impetus to reduce CO₂ emissions from power generation. In this process, high-purity CO₂ is generated through the addition of an organic solvent (acetone, dimethoxymethane, or acetaldehyde) to a CO₂ rich, aqueous ammonia/carbon dioxide solution under room-temperature and -pressure conditions. The organic solvent and CO₂-absorbing solution are then regenerated using low- temperature heat. When acetone, dimethoxymethane, or acetaldehyde was added at a concentration of 16.7% (v/v) to 2 M aqueous ammonium bicarbonate, 39.8, 48.6, or 86.5%, respectively, of the aqueous CO₂ species transformed into high-purity CO₂ gas over 3 h. Thermal energy and temperature requirements for recovering acetaldehyde, the best performing organic solvent investigated, and the CO₂-absorbing solution were 1.39 MJ/kg of CO₂ generated and 68 °C, respectively, 75% less energy than the amount used in a pilot chilled ammonia process and a temperature 53 °C lower. The findings exhibit the promise of economically viable carbon capture powered entirely by abundant low temperature waste heat.

NAME: **Eunji Lee**

SCHOOL: Sacred Heart Academy, Hamden

TEACHER/MENTOR: Elizabeth Christophy

TITLE: Computer-Aided Bleeding Detection in Wireless Capsule Endoscopy Images Using Deep Convolutional Neural Networks

Wireless capsule endoscopy (WCE) is a minimally invasive alternative to traditional endoscopy focusing on the small intestine; however, it is costly due to physician labor costs for manual analysis. Existing solutions for bleeding detection in WCE images have low accuracy and utilize complicated preprocessing. In this project, a deep convolutional neural network (CNN) approach is employed to address these problems. For the CNNs, Google's TensorFlow is utilized with Python code. First, a simplified preprocessing procedure is proposed by converting color images to normalized greyscale. For training of CNNs, three different sizes are selected, i.e., 70%, 80%, and 90% of the dataset accordingly, while the remainder is used for testing. Then, the number of convolutional layers and sizes of filters are optimized for each training size. After training and testing for the three architectures, the CNNs' results are evaluated through comparison with ten other machine learning methods from Python's sklearn library. The average accuracy for the three architectures is 97.78%, the average sensitivity is 98.15%, and the average specificity is 97.22%. However, the accuracies of Python's sklearn methods range from 40% to 86.70% with large discrepancies between sensitivities and specificities. The results show that the proposed CNN approach can provide an accuracy up to almost 2.5 times higher than common machine learning methods. In addition, the CNN approach uses less training data and simpler preprocessing, which demonstrates efficiency. Future research includes testing full-length WCE videos with unbalanced datasets and classifying bleeding by severity.

ISEF Abstracts - Special Categories**Alexion Biotechnology**

NAME: **Michelle Xiong**
SCHOOL: Greenwich High School, Greenwich
TEACHER/MENTOR: Andrew Bramante

TITLE: Development of a CNT/ZnO/TiO₂ Membrane for Visible-Light Induced Photocatalytic Filtration of Water-Borne Organic and Bacterial Pollutants

With 780 million people without access to a potable water source, the development of a simple, self-powered, and point-of-use water system is desirable to remove waterborne bacteria, and chemical pollutants. This research designed an inexpensive solar powered filtration device, that removed bacterial contamination, as well as organic chemical pollutants, such as 2,4-Dichlorophenoxyacetic acid (2,4D), a herbicide that is often found in agricultural water runoff. Recently, semiconductors have shown promise as nanomaterials that can help clean water through photocatalysis. TiO₂ nanowires and ZnO/CNT nanorods were incorporated into a unique membrane for concurrent photocatalytic oxidation and separation. The structure of CNT/TiO₂ composite is advantageous, as CNTs add strength and chemical stability to the filter membrane, while providing necessary heterojunctions at the CNT/TiO₂ interface for efficient translation of sunlight for photocatalytic decomposition under visible light. Because contaminants are degraded at the surface, the membrane exhibits low fouling potential. TiO₂ nanowires were synthesized via hydrothermal process and CNTs were doped with ZNO with an acid treatment. The materials were layered on 3 in. filter paper to form the CNT/ZnO/TiO₂ composite membrane, that was then installed in a hand-held, solar-powered filtration system. At 3lumens illumination, the system removed as much as 85.3% 2,4D; removal was dramatically increased to 99.7% at 990 lumens. The system's disinfectant abilities were studied with E-coli k12. The membrane removed 90% of bacteria at 3lumens and 97% of bacteria at 990lumens. With typical sunlight at 377lumens, the filter will have 97% and 91% remediation for organic pollutants and bacteria respectively.

Urban School Challenge

NAME: **Maya Geradi**
SCHOOL: Wilbur Cross High School, New Haven
TEACHER/MENTOR: Prof. Joshua Gendron

TITLE: A Study Of Circadian Genetics And Abiotic Stress Towards Sustainable Agriculture

Food security and agriculturally unfavorable climates are prevalent sustainability concerns. Irrigation, a vital agricultural process, results in salinization of arable land. Saline soil diminishes crop growth and yield. Circadian genes regulate plant response to abiotic stress and can be utilized to improve understanding. Furthermore, plant growth promoting rhizobacteria can be used in increasing yield under stress.

This project aims to study circadian genetics and the effect of beneficial Bacillus strains to develop methods to alleviate saline and osmotic stress. Towards this goal, wildtype Arabidopsis thaliana and 3 circadian plant lines, gi-2, FKF1 and CCA1 OX, were studied. Plant development and germination were studied in 8 vs. 16 hour chambers under ranging salt and mannitol concentrations (0-200mM). Stress mitigation and growth promotion by 2 Bacillus species were studied by spotting suspended cells onto agar plates with plants. Partition plates were used to study effect of microbial volatile compounds. Plant growth was evaluated by examining biomass, rosette surface area and hypocotyl length.

B. subtilis GB03 and B. subtilis Bsn5 significantly improved plant yield and induced different responses in the 3 circadian genetic backgrounds and wildtype. Both strains increased biomass by 250% – 500% in plants grown under saline and osmotic stress. The FKF1 mutant has increased germination efficiency under salt and osmotic stress, compared to wildtype. Larger trichomes and higher trichome density was observed in the FKF1 and gi-2 mutants, during early development.

These results show promise for engineering salt tolerant crops and identifying viable biofertilizers for improving agricultural productivity in the future.

ISEF Abstracts - Special Categories

UTAS Engineering

NAME: **Sophie Edelstein**
SCHOOL: Wilbur Cross High School, New Haven
TEACHER/MENTOR: Charlene Woodland

TITLE: Formulation of a Bovine Gelatin Crosslinked Scaffold for Potential Human Tissue Applications: Cost-Effective, Patient Specific Alternative Treatment of Acetabular Labral Tears of the Hip

. Acetabular labral tears comprise 22% of reported groin pain. Repairs involve suturing torn tissue to the bone via anchors, or removing inflamed tissue. Both prevent the body from healing naturally. The Bridge-Enhanced ACL Repair piloted by Boston Children's Hospital, a collagen-based scaffold, reduces pain, recovery time, and osteoarthritis by letting ACL heal naturally. This research seeks to design a gelatin-based scaffold for the hip labrum composed of hyaluronic acid, a Glycosaminoglycan, cross-linked with glutaraldehyde and glycerinaldehyde producing similar results.

A 2% gelatin was chosen and mixed with .5% (w/v) hyaluronic acid. Six gels were cross-linked with glutaraldehyde and D-L glycerinaldehyde at concentrations of .1%, 1%, and 10% (w/v). Young's Modulus for each scaffold was recorded via ball bearing apparatus, ImageJ, and equation (Ju & Liu 2001). With a general Young's Modulus (E) of various tissue and acetabular labrums between 42-44 MPa, candidate gel was 2% bovine gelatin/hyaluronic acid blend cross-linked with 10% glutaraldehyde solution, having the closest properties to the given E of an actual acetabular labrum, 41.21 MPa. As cells prefer firm growing conditions, an interface was produced by making a gel with a thin 10% gelatin outer layer for bone adherence, and another layer with the candidate 2% gel. The layers were cross-linked with the 10% glutaraldehyde solution. CT scan data of the human hip joint was 3D printed. The scaffold described was set in acetabulum making scaffold patient-specific. Molded device was frozen/lyophilized to determine preservability. Gelatin-based scaffold, rather than collagen, is less expensive, making device cost-effective at \$22 per unit.

CT STEM Fair

NAME: **Shobhita Sundaram**
SCHOOL: Greenwich High School, Greenwich
TEACHER/MENTOR: Andrew Bramante

TITLE: Detection of Premalignant Pancreatic Cancer via Computational Analysis of Serum Proteomic Profiles

. Pancreatic cancer (PC) is currently one of the deadliest cancers, with a 5-year survival rate of just 7%. Detecting PC while it is localized increases the survival rate to 30%, however to date, such a diagnostic tool is nonexistent. In this project, I proposed the development of a computational classification model that can accurately detect premalignant PC from patient blood mass spectrometry (MS) data. A database of 181 MS samples was used: 80 from test- subjects with premalignant PC, and 111 controls from healthy test-subjects. Preprocessing was performed using non-classical statistical techniques to eliminate chemical noise and extract true signals. Detected peaks were analyzed to determine the most discriminative biomarkers.

Prior research used univariate feature selection methods to measure each variable's importance. In this research, a novel hybrid approach was developed, combining univariate and multivariate methods to analyze interactions between protein markers, and how interdependencies impact predictive value. Using this method, several machine learning algorithms were trained to produce diagnostic models. The highest-performing model achieved an ROC accuracy of 80%, demonstrating significant improvement over prior research, which was limited to 69%. For each of the selected biomarker proteins, intensity levels were found to be significantly elevated or suppressed in the pre-cancerous samples, compared to control samples. These results suggest that a hybrid approach to feature selection can discover new biomarkers, and lead to development of superior tools to diagnose premalignant pancreatic cancer, thus allowing doctors to treat it while the disease is still localized, and curative surgery is still possible.

I-SWEEEP Abstracts

NAME: **Steven Siveyer**

SCHOOL: Fairchild Wheeler Magnet High School, Bridgeport

TEACHER/MENTOR: Ms. Warner

TITLE: An Investigation Into The Capability Of Graphene To Produce Electricity During Rainstorms As An Addition To A Traditional Solar Panel

Ever since graphene was discovered in 2004, Scientists have been looking at applications for its properties, especially its strength and electrical characteristics. One possible application is in the next generation of solar panels. An issue with solar panels is that they are only effective in bright sunshine. I wanted to see if I could use graphene to allow solar panels to produce electricity during rainstorms. Studies have shown that when salt water passes over graphene it can make an electrical charge. To test this I made Graphene out of Graphene Oxide solution with water, putting it onto a disk, and then light scribing it. I used distilled, rain and a salt water solutions. After dripping the solutions over the graphene I was able to produce an electrical charge. Preliminary testing showed 10 times and 30 times higher electrical charge with the rain and salt solutions respectively than tap water. In further testing the data showed inconsistent results, and I had many challenges with both the graphene production and the test due to the fragility of the graphene. I made and used Polyvinyl Alcohol to stabilize the graphene. After experimenting, I found that an electrical charge was produced from pouring each type of water over the graphene. The results showed the distilled water produced the most electricity. After doing my experiment I am not able to make an accurate conclusion because of inaccuracies of the data, but I see potential in its use in the future solar panels.

NAME: **Sophie Wang**

SCHOOL: Waterford High School, Waterford

TEACHER/MENTOR: Michael O'Connor

TITLE: Development of a Novel Copepod-Based Ovitrap for Mosquito Control

Many methods are used to control *Aedes aegypti*, the mosquito that carries Zika and Dengue viruses, yet one that is both cheap and environmentally friendly is lacking. Copepods have been used for *Ae. aegypti* control, but only passively in existing water bodies. This project aims to develop a cheap and environmentally friendly copepod-based mosquito ovitrap to attract mosquitoes to lay eggs and destroy their larvae. The hypotheses included whether 1) local and commercial copepods destroy larvae with the same efficiency 2) a black trap color and pond/rain water are effective ovitrap components 3) the presence of other food sources hinders copepods' ability to destroy larvae.

The project used copepods captured from a local pond in Connecticut (CT) and ones bought from North Carolina (NC). Different copepods were placed in identical well plates with larvae to determine their abilities to destroy larvae. Ovitrap with different colors or liquid contents were placed in a cage with live *Ae. aegypti*. After 1-3 days, the traps were removed and laid eggs were counted under a microscope.

After 2 days, both CT and NC copepods reduced ~75% of the larvae population, demonstrating their equal efficiency. Of the colors tested, *Ae. aegypti* preferred to lay eggs in black over white ovitraps. Among the water types tested, mosquitoes laid, on average, significantly more eggs in pond (1411) or rain (731) water than hay infusion water (250). Copepods ate almost an identical number of larvae with or without algae, indicating that in an ovitrap with other food, they would still eat larvae.

This project developed the first local-copepod-based mosquito ovitrap that can be used to attract *Ae. aegypti* to lay eggs and use copepods to destroy hatched larvae. Local copepods are freely available and environmentally friendly. Transferring them from their natural environment into ovitraps provides an effective, cheap, and environmentally friendly system to reduce the *Ae. aegypti* population.

I-SWEEEP AbstractsNAME: **John Burnett** and **Austin Huang**

SCHOOL: Science and Technology Magnet High School, New London

TEACHER/MENTOR: Charles Mulligan

TITLE: The Optimization of a Polycrystalline and Monocrystalline Solar Cell through Effective Cooling in the Form of a Heatsink Transfer System

. Photovoltaic cells have been the solution to many environmentally hazardous energy resources. The greatest issue has been the cost effectiveness of the cells, and that many homeowners would not get their money back in the terms of energy produced. In this study, the voltage production of both a monocrystalline and polycrystalline photovoltaic were analyzed. UV lights were concentrated on a photovoltaic cell that was connected to a heat sink which ran water through its tubings from a fish tank that is a part of an hydroponic system to transfer thermal energy. The voltage produced throughout a period of 7 hours was measured as well as the temperature of the two systems with and without the heatsink. As a result, solar cells mounted with the heat sink produced a higher voltage. Upon closer observation, the monocrystalline solar cell had the highest voltage production and a higher efficiency percentage. With the implementation of the heatsink, on the monocrystalline solar cells there was a 4.72% efficiency. On the polycrystalline solar cell there was a 2.42% increase. This data paralleled our data from our previous experiment where with the heatsink in small scale trials, which had a 3.13% increase in efficiency. With the potential of increasing the efficiency of solar panels, affordable photovoltaic systems could be implemented on the residential level.

GENIUS Olympiad AbstractsNAME: **Manuel Carballo**

SCHOOL: Greenwich High School, Greenwich

TEACHER/MENTOR: Andrew Bramante

TITLE: Remediation of Beryllium Heavy Metal via Phaseolus vulgaris Hyperaccumulation

Using plants for bioremediation has less impact on the ecosystem versus using chemicals to take out heavy metals. During bioremediation plants that absorb large quantities of heavy metals in the soil are planted and, once fully grown, removed to rid the soil of contaminants. Most heavy metals have several hyperaccumulators, but Beryllium does not. According to "McCutcheon & Schnoor 2003, Phytoremediation. New Jersey, John Wiley & Sons pg 891" there are no known hyperaccumulators for Beryllium. Plants do absorb Beryllium though, and some more than others. Kidney beans (*Phaseolus vulgaris*), when tested for metal content, contain 2200 $\mu\text{g}/\text{kg}$ of Beryllium. Could *Phaseolus vulgaris* be the first known effective hyperaccumulator of Beryllium? To test this hypothesis, *Phaseolus vulgaris* specimens were grown, some exposed to Beryllium Sulfate and others not exposed to any heavy metals. Control plants, in this case Ryegrass (*Lolium perenne*), were also grown and tested the same way. The plants were then dried and digested for Atomic Absorption Spectroscopy testing. Results from the Atomic Absorption Spectroscopy showed that the kidney bean plants absorbed 8324.2 $\mu\text{g}/\text{L}$ of Beryllium Sulfate while the ryegrass absorbed 77.9 $\mu\text{g}/\text{L}$. This would deem *Phaseolus vulgaris* an effective hyperaccumulator of Beryllium. Other methods of cleansing Beryllium out of soil involve toxic chemicals that are worse than the Beryllium itself. The use of *Phaseolus vulgaris* as a hyperaccumulator of Beryllium in soil could be very helpful in remediation of areas that have suffered heavy metal pollution from mines and industrial activities in an environmentally friendly way.

NAME: **Jonathan Siveyer**

SCHOOL: Fairfield College Preparatory School, Fairfield

TEACHER/MENTOR: Ms. Kiel

TITLE: An investigation into the use of fruit peel filters to reduce the level of water contamination.

Heavy metals are dense elements that cannot be digested, so they tend to bioaccumulate. In low quantities, they are necessary for life, but larger quantities can lead to serious medical complications, including organ failure and death. They can contaminate the environment through mining, farming, and industrial waste. An accessible way to remove the threat of heavy metal poisoning needs to exist. One gram of banana, apple, orange, and tomato peels were each put into mesh cheese-cloth bags then submerged into 200mL of 4ppm copper solutions for the course of two hours. Measurements of the copper levels were taken after 5, 15, 30, 60, 90, and 120 minutes. Controls were also made with no fruit peels and others were made with fruit peels but no copper in the solution. The data indicates that there was a significant drop in copper content within the first 5 minutes of testing. The drop was approximately 28%, 42%, 22%, and 49% for the banana, orange, tomato, and apple peels respectively, once the effect of the discoloration from the peels was taken into account. Without the mesh bags containing the peels, the copper content dropped by 69%, 54%, 38%, and 33% for the banana, orange, tomato, and apple peels respectively, which was a much more significant drop than with the mesh bags. The data suggests that all of the peels are effective at absorbing copper in a short time, but the effectiveness is limited when trying to contain the peels.

GENIUS Olympiad Abstracts

NAME: **Madison Lee**

SCHOOL: Sport and Medical Sciences Academy, Hartford

TEACHER/MENTOR: Christine Demusz

:

TITLE: **Natural Plastic: Milk Plastic Biodegradation vs. Commercial Plastic Degradation**

About 15 billion tons of plastic is produced globally every year. More than 100 million tons of plastic debris ends up in the ocean, which threatens the health of marine life. Plastic piles up in landfills and releases toxins into the soil and water, which harms both people and wildlife. I wanted to come up with a solution to this problem, so last year I conducted an experiment to make “natural” plastic made of milk. The purpose of this experiment is to test the biodegradability of my milk plastic against the commercial plastics. I hope to show that instead of using harmful oil-based plastics, we can transition to more sustainable, natural plastic.

To test how different kinds of plastic wear down over time, I tracked the weight loss of two kinds of milk plastic and two kinds of commercial plastic when exposed to different environments. Samples of whole milk plastic, 2% milk plastic, floor mat plastic, and bottle plastic into ocean water (Hydrolytic Degradation), soil (Land Degradation), and sunlight (Photodegradation) which mimics where discarded plastic ends up. I hypothesized that the milk plastic substitutes would biodegrade at a much faster rate than the commercial plastics in each test. The experimental results support my hypothesis because the milk plastics lost anywhere from 8% to 91.5% of their total weight, whereas the commercial plastics had negligible degradation. Using biodegradable milk plastic that has the characteristics of commercial plastic will prevent us from depleting our resources and causing further ecological damage.

NAME: **Michelle Woo**

SCHOOL: Greenwich High School, Greenwich

TEACHER/MENTOR: Mr. Andrew Bramante

TITLE: **A Novel N-Doped Carbon Nanotube/Copper Electrode for the Reduction of CO₂ to Biofuel**

In 2013, 40 billion tons of CO₂ were released into the air to power our increasingly industrialized world. This high rate of CO₂ release necessitates a manner in which the carbon cycle can be closed, turning CO₂ back into fuel. In prior literature, difficult-to-synthesize and relatively high cost cathodes have been shown to convert CO₂ into several light-hydrocarbon products, tunable with the magnitude of overpotential applied to the cell. In this research, a novel, low-cost, and simple-to-manufacture nitrogen-doped carbon nanotube (N-CNT) electrode with copper nanoparticles was synthesized simply by mixing cyanamide (nitrogen precursor), a carbon source (acid-prepared carbon nanofibers), and a transition-metal salt (copper(II)acetate) in IPA. After stirring, the solution was heated under flowing N₂ and manually ground into a powder. The resulting N-CNTs with copper nanoparticles were examined via SEM, demonstrating 200nm N-CNT diameter tubes. The Cu/N-CNTs were applied to conductive carbon cloth soaked in Polytetrafluoroethylene and compressed at 200psi to synthesize the cathode. CO₂ reduction was performed in a 5ml H-cell filled with 4ml of 0.1M KHCO₃, both with and without additional copper nanoparticles electro-nucleated onto the cathode. An anion exchange membrane separated the anode (platinum) and cathode. Negative voltage was applied to the cell with a 1.5V AA-battery. GC analysis of the reduction products highlighted the synthesis of ethanol; significantly higher efficiencies were achieved for electrolysis experiments where additional copper was added to the cathode. Overall, equal or higher efficiencies for CO₂ conversion were observed compared to prior literature, while using a simpler, and inexpensive cathode design.

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