



Conn. Science & Engineering Fair

Quinnipiac University

March 14 - 18, 2017

These judging results are unaudited by the fair's Database Committee. The CSEF reserves the right to correct the listings.

Regular Fair Awards - Finalists

Sorted by:

- Fair Category
- Finalist standing in regular fair (1st, 2nd, etc)
- Project number

[SchTown] [School] [Teacher]
[Proj#] [Project Title]

Life Sciences - High School Individual

Greenwich Greenwich High School Andrew Bramante

3086 Detection of Premalignant Pancreatic Cancer via Computational Analysis of Serum Proteomic Profiles

Student(s) Shobhita Sundaram **Grade** 11 **Town** Greenwich

- * 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

New Haven Wilbur Cross High School Charlene Woodland

3013 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

Student(s) Sophie Edelstein **Grade** 10 **Town** New Haven

- * 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

New Haven Wilbur Cross High School Prof. Joshua Gendron

3151 A study of circadian genetics and abiotic stress towards sustainable agriculture

Student(s) Maya Geradi **Grade** 11 **Town** New Haven

- * 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

Greenwich Greenwich High School Andrew Bramante

3032 Crowd-Sourced Detection and Mapping of Nitrate Water Pollutants via a Mobile Web-Based Image Analysis System

Student(s) Luca Barcelo **Grade** 11 **Town** Old Greenwich

- * 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

[SchTown] [School] [Teacher]
[Proj#] [Project Title]

Greenwich Greenwich High School Andrew Bramante

3010 Rapid Colorimetric Field Monitoring System for Zika Virus in Mosquito Populations via DNAzyme-Functionalized Gold Nanoparticles

Student(s) **Rahul Subramaniam** **Grade** 10 **Town** Cos Cob

- * 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

Danbury Danbury High School Karen Lamb

3007 Prevention of Zika Virus Infection and Other Mosquito-Borne Diseases Using Environmentally Sound Control Methods

Student(s) **Bradley Kerr** **Grade** 9 **Town** Danbury

- * 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

Redding CT STEM Fair Deborah Day

3061 The Influence of Wildebeest Carcass Inputs on the Diet of Fish in the Mara River

Student(s) **Katherine Handler** **Grade** 12 **Town** Woodbridge

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion

Bethel Bethel High School Raymond Turek

3066 Maximizing Energy Production from MudWatts

Student(s) **Bryne Bosworth** **Grade** 12 **Town** Bethel

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion

Greenwich Greenwich High School Andrew Bramante

3074 Remediation of Beryllium Heavy Metal via Phaseolus vulgaris Hyperaccumulation

Student(s) **Manuel Carballo** **Grade** 12 **Town** Greenwich

- * 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

Greenwich Greenwich High School Mr. Bramante

3109 Platelet Membrane Coating Bio-interfacing of Pravastatin to Increase Removal of Arterial Plaque

Student(s) **Haley Stober** **Grade** 11 **Town** Old Greenwich

- * 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

Greenwich Greenwich High School Mr. Bramante

3117 Targeted Anticancer Properties of Honey Bee Melittin via Cell Surface Lipid Disruption

Student(s) **Dante Grace Minichetti** **Grade** 11 **Town** Greenwich

- * 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

[SchTown] [School] [Teacher]
[Proj#] [Project Title]

Greenwich Greenwich High School Andrew Bramante

3125 PDE-4 Inhibitor-Assisted Antibiotic Suppression of Borrelia Biofilm Growth for Treatment of Chronic Lyme

Student(s) **Sophia Chow** **Grade 11** **Town** Old Greenwich

- * 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

Fairfield Fairfield College Preparatory School Ms. Kiel

3126 An investigation into the use of fruit peel filters to reduce the level of water contamination.

Student(s) **Jonathan Siveyer** **Grade 12** **Town** Monroe

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * Energize CT/eesmarks Future Sustainability Awards --- 2nd Place High School - \$300 Cash and Plaque
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 2nd Place HS Future Sustainability

Hamden Hamden High School Sophia Michalatos

3149 Permanent Inactivation of the HIV Provirus via CRISPR Gene-Editing

Student(s) **Aakshi Agarwal** **Grade 12** **Town** Hamden

- * 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

Life Sciences - High School Teams

Greenwich Brunswick School Dana Montanez

3542 Human fingerprints and Gecko Setae: A fusion of configurations to create a super-grip, non-slip surface

Student(s) **Thacher Scannell** **Grade 11** **Town** Stamford

Avi Mukherjee **Grade 11** **Town** Stamford

- * Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High Team- \$500 (split) & Plaque
- * Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion

New Haven Engineering Science University Magnet School Roger Rushworth

3533 A Novel Approach Using Biochar in Sand Reactors to Accelerate Biodegradation of Naphthenic Acids in the Process of Bitumen Extraction via Oil Sands

Student(s) **Sumanth Kondapalli** **Grade 10** **Town** Milford

Tirth Patel **Grade 11** **Town** New Haven

- * 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

Greenwich Brunswick School Dana Montanez

3525 Methylmercury concentrations in Fish Tissue: A comparative analysis of Long Island Sound v. the Atlantic Ocean

Student(s) **Alberto Delgado** **Grade 10** **Town** Riverside

Ryan Mulshine **Grade 10** **Town** Greenwich

- * Pfizer Life Sciences Awards --- 3rd Place - Life Sciences Senior High Team - Plaque
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion

[SchTown] [School] [Teacher]
[Proj#] [Project Title]

Windsor Greater Hartford Academy of Math and Science Dr.Lili Aramli

3507 The Investigation of the Effectiveness of Triclocarban as an Antibacterial Agent

Student(s) **Alexa Wilson** **Grade** 11 **Town** Rocky Hill
Arshad Bhura **Grade** 11 **Town** Rocky Hill
Malavika Madan **Grade** 11 **Town** South Windsor

* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion

Trumbull St. Joseph High School Daniel T. Walsh, PhD

3509 Effect of Popular Acidic Drinks on Human Tooth Enamel and Use of Common Chemical Additives to Reduce Enamel Erosion

Student(s) **Cheng Chang** **Grade** 11 **Town** Stratford
Hao Zhang **Grade** 12 **Town** Bridgeport

* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion

Greenwich Brunswick School Dana Montanez

3513 Analysis of Environmental Stress: The effect on Restriction Enzyme Analysis of Asterina DNA

Student(s) **Chris Burdick** **Grade** 11 **Town** Riverside
Greyson Wolfram **Grade** 11 **Town** Riverside
Matt Restieri **Grade** 11 **Town** Riverside

* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion

Redding Joel Barlow High School Dr. Nuzzo

3518 A Statistical Analysis of the Inflation of Atmospheric CO2 Levels and the Correlation Between Sea Ice Concentration and Aptenodytes Forsteri Breeding Patterns

Student(s) **Ella Gaspar** **Grade** 11 **Town** Redding
Taylor Macchia **Grade** 11 **Town** Wilton

* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion

Redding Joel Barlow High School Dr. Katherine Nuzzo

3530 Analysis of the Effects of Selenastrum capricornutum on the pH of Freshwater Marine Environments

Student(s) **Alex Palvinski** **Grade** 11 **Town** Redding
Michael Klein Wassink **Grade** 11 **Town** Redding

* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion

Life Sciences - Middle School 7th Grade

West Hartford St. Timothy Middle School Danielle Locke

2022 Green Tea: A Simple Solution for a Bananas Problem?

Student(s) **Grace Flynn** **Grade** 7 **Town** West Hartford

* 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

Stratford St. Mark School Ms. Lynn Olins

2005 "Watts" the efficiency of solar cells?

Student(s) **Kaitlyn Szczepanski** **Grade** 7 **Town** Stratford

* 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

[SchTown] [School] [Teacher]
[Proj#] [Project Title]

Danbury Westside Middle School Academy Jon Neuhausel

2033 Pharmaceuticals In Our Water: How Can These Hazardous Chemicals Be Filtered?

Student(s) Khushi Parikh **Grade 7** **Town** Danbury

- * 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

Pawcatuck St. Michael School Mrs. Anna-Helene Grossomanides

2018 Hydroponics - A World Without Dirt

Student(s) Anne Drago **Grade 7** **Town** Pawcatuck

- * 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

Cheshire St. Bridget School Michelle Carroll

2014 Which Bioplastic is more Elastic

Student(s) Kavin Kathir **Grade 7** **Town** Cheshire

- * 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

Newtown St. Rose of Lima School John Dalton

2001 The Effect of Petroleum Products on the Growth of Ramshorn Snails (Planorbis Rebrum)

Student(s) Gregory Gargano **Grade 7** **Town** Sandy Hook

- * 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

Pawcatuck St. Michael School Mrs. Grossomanides

2023 Is That Granite Radioactive?

Student(s) Samuel Montalto **Grade 7** **Town** Westerly

- * Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion
- * Evelyn Brown Award --- Earth Science - Field work with geologic or historic value

New Haven Worthington Hooker Middle School Mr. Jones

2037 Earth, Water, Flora: Reducing Soil Erosion

Student(s) Alena Gutierrez **Grade 7** **Town** New Haven

- * Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion

[SchTown] [School] [Teacher]
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Life Sciences - Middle School 8th Grade

Wilton Middlebrook Middle School Jessica Garcia

2504 A Novel Method for Oil Spill Cleanup Using Biomass

Student(s) Anika Bhagavatula **Grade 8** **Town** Wilton

- * 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 CSEFF
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

Norwalk Roton Middle School John Skopp

2524 What effect does surface temperature have on fingerprints?

Student(s) Sarah Signore **Grade 8** **Town** Norwalk

- * 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

Trumbull Christian Heritage School Theresa Miller

2533 The Effect of Martian Regolith on Vegetable Germination for Extra Terrestrial Colonization

Student(s) Amanda Shipman **Grade 8** **Town** Trumbull

- * 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

New Haven Engineering Science University Magnet School Roger Rushworth

2528 The affect of Roundup on GMO plants versus wild grown plants

Student(s) Rachna Vipparla **Grade 8** **Town** Milford

- * Pfizer Life Sciences Awards --- 4th Place- Life Sciences 8th grade- trophy

Hartford Environmental Sciences Magnet School at Mary Rebecca Hays

2534 The Effects of Food on Breeding Xiphophorus Hellerii

Student(s) Natalie Reeves **Grade 8** **Town** Southington

- * 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

West Hartford St. Brigid-St. Augustine School Donald Fay

2505 Ecological Refrigerator

Student(s) Melanie Grajales **Grade 8** **Town** West Hartford

- * Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion
- * Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner

Cheshire St. Bridget School Mrs Carroll

2520 Do the Eyes Have It?

Student(s) BriAnna McConnell **Grade 8** **Town** Wolcott

- * Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion

[SchTown] [School] [Teacher]
[Proj#] [Project Title]

Windsor St. Gabriel School Meg Rosa

2529 Conventional v. Organic Fruit

Student(s) **Jeremy Blackwood** **Grade 8** **Town** Windsor

* Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion

Pawcatuck St. Michael School Mrs. Anna-Helene Grossomanides

2539 Phototropism: In Indoor Germinated Seedlings

Student(s) **Mary Malloy** **Grade 8** **Town** Mystic

* Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion

Bridgeport Park City Prep Charter School Mr. Jonathan Jaekle

2542 Larva -B-Gone: A Safer Way To Eliminate The Threat of Zika and Other Mosquito Borne Diseases

Student(s) **Antonios Boudreau** **Grade 8** **Town** Ansonia

* 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

Life Sciences - Middle School Teams

Stamford Bi-Cultural Day School Christopher Graseck 421 Park

1016 How do Brine Shrimp Hatch in different Ph?

Student(s) **Ben Cohen** **Grade 7** **Town** Westport

Joshua Marcus **Grade 7** **Town** Westport

* Pfizer Life Sciences Awards --- 1st Place- Life Sciences MS Team- \$100 each & trophy and Invite to Compete Broadcom MASTERS

Stamford Bi-Cultural Day School Christopher Graseck

1002 Is "non-toxic" dish detergent safe for the environment?

Student(s) **Brandon King** **Grade 7** **Town** Stamford

Ori Divon **Grade 7** **Town** Stamford

* 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

New Haven Worthington Hooker Middle School Douglas Jones

1009 Seaweed & Tsunamis

Student(s) **Amelia Cox** **Grade 7** **Town** New Haven

Sage Urban **Grade 7** **Town** New Haven

* 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

Danbury St. Joseph School Lydia Jabbour

1011 Which Household or Home-Made Cleaner Best Prevents Bacteria Growth.

Student(s) **Matthew Riggs** **Grade 8** **Town** Danbury

Steven Soto **Grade 8** **Town** Danbury

* Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion

[SchTown] [School] [Teacher]
[Proj#] [Project Title]

Bridgeport Park City Prep Charter School Mr.jaekle

1013 Acid rain vs. algae

Student(s) **Leanna Hosten** **Grade 8** **Town** Bridgeport
Joy Longwa **Grade 8** **Town** Bridgeport

* Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion

Meriden ACES Thomas Edison Middle School Todd Solli

1014 Extracting DNA from fruit

Student(s) **Brianna Oliveras** **Grade 8** **Town** Meriden
Mikaela Mitchell **Grade 8** **Town** Meriden

* Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion

Physical Sciences - High School Individual

Greenwich Greenwich High School Andrew Bramante

6010 Novel Low-Temperature Carbon Capture Using Aqueous Ammonia and Organic Solvents

Student(s) **Ethan Novek** **Grade 12** **Town** Greenwich

- * 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/eesmart 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

Hamden Sacred Heart Academy Elizabeth Christophy

6067 Computer-Aided Bleeding Detection in Wireless Capsule Endoscopy Images Using Deep Convolutional Neural Networks

Student(s) **Eunji Lee** **Grade 11** **Town** Trumbull

- * 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

Greenwich Greenwich High School Andy Bramante

6063 Carbon Capture and Storage via Silver Nanoparticle Catalyzed Hydration of Carbon Dioxide

Student(s) **Agustina Stefani** **Grade 12** **Town** Greenwich

- * 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

[SchTown] [School] [Teacher]
[Proj#] [Project Title]

New Haven Engineering Science University Magnet School Heather Toothaker

6005 A Novel Rapid Diagnostic Test for Zika Virus NS1 Protein using Nanoribbon Microfluidics

Student(s) Lauren Low **Grade 12** **Town** Hamden

- * 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

Greenwich Greenwich High School Andrew Bramante

6015 Development of a CNT/ZnO/TiO2 membrane for visible-light induced photocatalytic filtration of water-borne organic and bacterial pollutants

Student(s) Michelle Xiong **Grade 11** **Town** Riverside

- * 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

Bridgeport Bridgeport Regional Aquaculture Center - BCF Kirk Shadle

6024 Investigating the Efficacy of Magnesium Nitrate as a Viable Solvent in the Synthesis of 2,5-Dimethylfuran Biofuel

Student(s) Cole Stearns **Grade 12** **Town** Fairfield

- * 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

Greenwich Greenwich High School Andrew Bramante

6040 Application of flexible PVDF nanofibrous membrane coated carbon fiber filter for tunable low cost solvent recycling

Student(s) Alex Araki **Grade 11** **Town** Greenwich

- * 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

Shelton Shelton High School Dr. Rivera

6046 Cycling Assisted Brake

Student(s) Kyle Young **Grade 9** **Town** Shelton

- * 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

[SchTown] [School] [Teacher]
[Proj#] [Project Title]

Greens Farms Greens Farms Academy Mathieu Freeman

6061 Comparative Study of Self-Designed Direct Access Formic Acid Fuel Cell (DFAFC) vs Hydrogen Fuel Cell

Student(s) **Edward Lopez-Wortman** Grade 12 Town Stamford

* Pepsico Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion

Redding Joel Barlow High School Dr. Katherine Nuzzo

6079 Experimentally determining the total lasting albedo effect of aerosol-seeded clouds based on aerosol particle type

Student(s) **Jonathan Lam** Grade 11 Town Easton

* Pepsico Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion

Glastonbury Glastonbury High School Diane Pintavalle

6085 Functionalization of Gold Nanoparticles with various Amino Acids under Different pH Environment

Student(s) **Danielle Cai** Grade 11 Town Glastonbury

* Pepsico Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion

Woodbridge Amity Regional High School Deborah Day

6089 Study of Size Separation of Sub-Millimeter Sizes Granular Material Using Vibro-Fluidization

Student(s) **Jethin Gowda** Grade 12 Town Orange

* 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

Windsor Academy of Aerospace and Engineering Michelle Bellinger

6098 Effects of Concentration and Cooling Rate on Microstructural and Macroscopic Properties of Tin-Zinc Binary Alloys

Student(s) **Jay Aindow** Grade 12 Town Tolland

* 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

Physical Sciences - High School Teams

Windsor Academy of Aerospace and Engineering Dr. Bellinger

6523 Effect of Aerodynamic Leaf Design on Electrical Power Generation via a Network of Vertically Aligned Micro Wind Turbines.

Student(s) **Chris Rinaldi** Grade 10 Town Enfield

Vishakh Talanki Grade 10 Town south windsor

Jean Pasato Grade 10 Town Middletown

* 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/eesmarks Alternative/Renewable Energy Awards --- High School Finalist - Medallion

Bridgeport Bridgeport Regional Aquaculture Center - BCF Kirk Shadle

6517 A Novel High Performance Liquid Chromatography Protocol to Investigate the Analgesic Role of Salicylic Acid and Other Bioactive Components found in Traditional Chinese Medicine

Student(s) **Rachel Roca** Grade 12 Town Trumbull

Julia Lawlor Grade 12 Town Southport

* Pepsico Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Team- \$300(split) & Plaque

[SchTown] [School] [Teacher]
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Windsor Academy of Aerospace and Engineering Michelle Bellinger

6513 The Effect of Adding a Second Polymer to Bombyx mori silk fibroin on the Mechanical Properties and Morphology of The Polymer Blends

Student(s) Chandni Patel **Grade** 12 **Town** Southington
Janine Albert **Grade** 12 **Town** Windsor

* Pepsico Physical Sciences Awards --- 3rd Place - Physical Sciences Senior High Team - Plaque

Trumbull St. Joseph High School Dr. Walsh

6504 Today's Invisible Threats: the Concentration of Radon According to Geological and Geographical Components

Student(s) Abigail Cloud **Grade** 10 **Town** Bridgeport
Anna Argulian **Grade** 10 **Town** Stratford

* Pepsico Physical Sciences Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion

Greenwich Brunswick School Dana Montanez

6505 Using Piezoelectricity to Harness Energy into a Battery

Student(s) Harold Barringer **Grade** 10 **Town** Greenwich
Thomas Foley **Grade** 10 **Town** Greenwich

* 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

New London Science and Technology Magnet HS Charles Mulligan

6508 Role of Ambient Environmental Chemical Composition in the Creation of Precursors to Life

Student(s) Thomas Statchen **Grade** 10 **Town** Stonington
Zack Skrabacz **Grade** 10 **Town** New London

* Pepsico Physical Sciences Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion

Windsor Madina Academy Saqib Chariwala

6516 Converting Grass into Cellulosic Ethanol to Generate Energy as a Heating System

Student(s) Radeyah Ahmed **Grade** 10 **Town** Bloomfield
Jareen Choudhury **Grade** 11 **Town** Bloomfield

* 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

Physical Sciences - Middle School 7th Grade

Greenwich Greenwich Catholic School Carol Lutz

5002 Mass Maglev Manufacturing

Student(s) Patrick McHugh **Grade** 7 **Town** Stamford

* 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

Danbury St. Gregory the Great School Mrs.Christine Fahey

5003 Wind Energy? I'm a Big Fan!

Student(s) Anna Flaherty **Grade** 7 **Town** New Fairfield

* 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

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Shelton Shelton Intermediate School Denise Fix

5023 Sneaker Feature

Student(s) Sofia Gasbarro **Grade 7** **Town** Shelton

- * 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

Danbury Westside Middle School Academy Mr. Neuhausel

5025 A study on soil product following bio degradation of Styrofoam by tenebrio

Student(s) Cassandra Plank Pinho **Grade 7** **Town** Danbury

- * 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

Bozrah Fields Memorial School Mrs. E. Brown

5008 Orb Characteristics and Containment

Student(s) Elijah Ramthun **Grade 7** **Town** Bozrah

- * 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

Bozrah Fields Memorial School Mrs. Brown

5001 Building Tesla Coils

Student(s) Lucas Santo **Grade 7** **Town** Bozrah

- * 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

Bozrah Fields Memorial School Mrs. Brown

5004 Environmental Monitoring System for Dog Safety

Student(s) Morgan Tainter **Grade 7** **Town** Gilman

- * 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

Newtown St. Rose of Lima School Mr Dalton

5017 Bisphenol A content in BPA free water bottles, canned food items, children's plastic connectable beads and plastic pen caps

Student(s) Irena Komninakas **Grade 7** **Town** Shelton

- * Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion

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Danbury St. Joseph School Lydia Jabbour

5019 Eggceptional Geodes: An Eggsperiment

Student(s) Bronwyn Hyland **Grade 7** **Town** New Fairfield

* Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion

Southington J.A. DePaolo Middle School Ms. Shea

5026 Snap Crackle Pop

Student(s) Morgan Birdsey **Grade 7** **Town** Southington

* Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion

* Henderson Award --- Certificate and \$25 Amazon Gift Card given by CSF

Bridgeport Multicultural Magnet School Ms. Ciuflea

5032 Natural Power

Student(s) John Paul Atehortua **Grade 7** **Town** Bridgeport

* Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion

* Energize CT/eemarks 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

Meriden St. Joseph School Timothy Coleman

5036 What kind of water is the purest?

Student(s) Ryan Killeen **Grade 7** **Town** Meriden

* Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion

West Hartford King Philip Middle School Robert Felekey

5038 Slip Hazard Alarm Robot--H2OhNobot

Student(s) Theodore Zhang **Grade 7** **Town** West Hartford

* 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"

Plantsville J.F. Kennedy Middle School Mrs. Pepin

5040 What quantity of dimples on a golf ball best contributes to flight distance.

Student(s) Ethan Lebo **Grade 7** **Town** Southington

* Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion

Physical Sciences - Middle School 8th Grade

Hebron Oei Homeschool Ellen McHugh

5537 Developing a Prototype Atmospheric Water Generator System as a Clean, Safe and Sustainable Water Source

Student(s) John Oei **Grade 8** **Town** Hebron

* 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

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Hamden Hamden Middle School Michelle DeLucia

5545 Constructing a CoreXY Dual Extrusion Fused Filament Fabrication Apparatus

Student(s) **Conner Larocque** **Grade 8** **Town** Hamden

- * 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

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean

5525 Waterbot

Student(s) **Jonathan Fischman** **Grade 8** **Town** Woodbridge

- * 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

Danbury Westside Middle School Academy Jonathan Neuhausel

5531 The Effects of Different Flours on the Breaking Point and Decomposition Rate of an Edible Spoon.

Student(s) **Sahana Chinthak** **Grade 8** **Town** Danbury

- * 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, Medallion
- * 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

Hartford Sport and Medical Sciences Academy Christine Demusz

5508 Natural Plastic: Milk Plastic Biodegradation vs. Commercial Plastic Degradation

Student(s) **Madison Lee** **Grade 8** **Town** Rocky Hill

- * 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

Southington Southington Catholic School Pauline Pelczar

5504 Trash to Gas!

Student(s) **Victoria Gomez** **Grade 8** **Town** Southington

- * Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion

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Bethany Amity Reg Middle School - Bethany Campus Kevin Berean

5519 Extinguish-Bot

Student(s) Weiss Yuan **Grade 8** **Town** Woodbridge

- * 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

Woodbridge Ezra Academy Rebecca Tishkoff

5523 Tracking the movements of a human being.

Student(s) Ethan Lavi **Grade 8** **Town** Woodbridge

- * Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- * Jon Stone Memorial Award --- \$150 cash for Innovative Engineering

Farmington Irving A. Robbins Middle School Kerry Visone

5530 Making concrete more energy efficient and lightweight.

Student(s) Angela Sadlowski **Grade 8** **Town** Unionville

- * 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

Trumbull Christian Heritage School Theresa Miller

5555 The fabrication and testing of various fruit juice dye-sensitized solar cells with the addition of preservatives

Student(s) Rachel Brooks **Grade 8** **Town** Trumbull

- * 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

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean

5559 Vision Shoe

Student(s) Shyam Viswanathan **Grade 8** **Town** Woodbridge

- * 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

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Bethany Amity Reg Middle School - Bethany Campus Kevin Berean

5564 Pen-nik

Student(s) **Nikhil Mali** **Grade 8** **Town** Woodbridge

- * Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology 8th grade- trophy

Danbury Westside Middle School Academy Jonathan Neuhausel

5568 Optimizing Fin Design For Compressed Air Water Rockets

Student(s) **Gryffin Syme** **Grade 8** **Town** Danbury

- * Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- * CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- Middle School Finalist - Medallion

Physical Sciences - Middle School Teams

New Canaan St. Aloysius School deborah phillips

4027 Mars Exploration

Student(s) **Kaloyan Dimitrov** **Grade 7** **Town** Norwalk

Andrew Tully **Grade 7** **Town** Norwalk

Alex Lanzillotti **Grade 7** **Town** Stamford

- * 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

Greenwich Greenwich Catholic School Mrs. Lutz

4028 A Helping Hand

Student(s) **Gianna Saviano** **Grade 8** **Town** Stamford

Sofina Tillman Singh **Grade 8** **Town** Stamford

- * 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

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean

4007 Plantaid

Student(s) **Evan Gorelick** **Grade 8** **Town** Woodbridge

Peter Savelyev **Grade 8** **Town** Woodbridge

- * 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

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean

4004 Water Turbine

Student(s) **Christopher Hill** **Grade 8** **Town** Woodbridge

Benjamin Lee **Grade 8** **Town** Woodbridge

- * Pepsico Physical Sciences Awards --- Finalist - Physical Science sJr 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

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Meriden ACES Thomas Edison Middle School Todd Solli

4011 To Sensor or Not to Sensor.

Student(s)	Madison Ehmka	Grade 8	Town Meriden
	Chloe DiChello	Grade 8	Town Meriden

* Pepsico Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion

Windsor Madina Academy Saqib Chariwala

4020 Investigating Novel Methods of Generating Electricity Using a Double Plated Magnetic Generator with Springs Compared to a Miniature Axial Rounded Tip Tidal Stream Generator

Student(s)	AlYaman Zoghlo	Grade 8	Town Enfield
	Ahmad Mohammed	Grade 8	Town Windsor

* Pepsico Physical Sciences Awards --- Finalist - Physical Science sJr 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

Bethany Amity Reg Middle School - Bethany Campus Mr. Kevin Berean

4021 The Energy Band

Student(s)	Kabir Khwaja	Grade 8	Town Woodbridge
	Samuel Green	Grade 8	Town Bethany

* Pepsico Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion
 * Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion
 * Energize CT/eesmarts Alternative/Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean

4025 The Clean Drain

Student(s)	William Livesay	Grade 8	Town Woodbridge
	Joshua Feuerstein	Grade 8	Town Woodbridge
	Arnav Paliwal	Grade 8	Town Woodbridge

* Pepsico Physical Sciences Awards --- Finalist - Physical Science sJr 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