



# Conn. Science & Engineering Fair

## Quinnipiac University

### March 15 - 19, 2016

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

### Regular Fair Awards - Finalists

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

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

## Life Sciences - High School Individual

**Hamden** Hamden High School Mr. Martins

3089 CRISPR Based Gene Editing Confers Resistance to Human Immunodeficiency Virus (HIV)

**Student(s)** **Aakshi Agarwal** **Grade 11** **Town** Hamden

- \* Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High- \$500 & Plaque, Trip to compete at Intel ISEF
- \* 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
- \* Alexion Biotechnology Awards --- 3rd Place- Biotechnology Senior High- \$300 & plaque

**Greenwich** Greenwich High School Bramante

3002 The Optimization of Nanoparticle-based Drug Delivery of Melittin in A Selective, Biocompatible Method to Target HIV Structural Antigen p24

**Student(s)** **Sanju Sathish** **Grade 11** **Town** Greenwich

- \* Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High- \$300 & Plaque, Trip to compete at Intel ISEF
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award

**Woodbridge** Amity Regional High School Deborah Day

3066 Developing a Novel Progranulin-Derived Biologic for Gaucher disease

**Student(s)** **Helen Liu** **Grade 12** **Town** Orange

- \* Pfizer Life Sciences Awards --- 3rd Place- Life Sciences Senior High- \$200 & Plaque
- \* Alexion Biotechnology Awards --- 2nd Place- Biotechnology Senior High- \$500 & plaque
- \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Microbiology

**Greenwich** Greenwich High School Andrew Bramante

3100 Enhanced Cellulolytic Enzyme Production by the Synergism between Trichoderma reesei and Aspergillus niger for the Production of Cellulosic Biofuel via Enzymatic Saccharification of Perennial Wheatgrass.

**Student(s)** **Teresa Zheng** **Grade 12** **Town** Greenwich

- \* Pfizer Life Sciences Awards --- 4th Place- Life Sciences Senior High- Plaque
- \* Otero Family Award --- The Otero Family Award; \$200 cash

**Glastonbury** Glastonbury High School Diane Pintavalle

3069 Significance of osteosarcoma tumors of different stages, histological phenotypes, and clinical outcomes on the expression of BMP2

**Student(s)** **Kanika Malani** **Grade 12** **Town** Glastonbury

- \* Pfizer Life Sciences Awards --- 5th Place- Life Sciences Senior High- Plaque

**Greenwich** Greenwich High School Andrew Bramante

3008 Investigating the Proteolytic Effect of Serine Protease Against Staphylococcus Aureus Biofilm Formation on Glass and Stainless Steel Surface Chips

**Student(s)** **Takema Kajita** **Grade 11** **Town** Cos Cob

- \* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award

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

**Greenwich** Greenwich High School Andrew Bramante

3012 Selective Improvement in Anti-Cancer Drug Sensitivity via D-Glucosamine Inhibition of STAT3 Oncogenic Expression

**Student(s)** Madeleine Zhou **Grade** 11 **Town** Old Greenwich

- \* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award

**Fairfield** Fairfield College Preparatory School Mrs. Kiel

3015 Examining the effectiveness of phytoremediation of heavy metals in water using Elodea Canadensis and Brassia Juncea.

**Student(s)** Jonathan Siveyer **Grade** 11 **Town** Monroe

- \* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
- \* Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, air pollution related

**Greens Farms** Greens Farms Academy Dr. Mathieu Freeman

3019 Evaluation of the Health of Bermuda's Reefs Based on Fish and Coral Populations

**Student(s)** Abby Viton **Grade** 12 **Town** Greenwich

- \* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award

**Trumbull** Trumbull High School Steffanie Elkins

3023 Using Eco-friendly Acids to Accelerate the Decomposition of Polystyrene

**Student(s)** Julie Hyland **Grade** 10 **Town** Trumbull

- \* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award

**New London** Science and Technology Magnet HS Chuck Mulligan

3027 Bioaccumulation of Total Mercury in the Poquonnock River System and its Implications for Local Fisheries

**Student(s)** Kathryn Ashbey **Grade** 12 **Town** Waterford

- \* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- \* Mystic Aquarium --- \$100 and 4 Admission Tickets to Mystic Aquarium
- \* Southeastern New England Marine Educators --- \$100 award and membership in SENEME - 1st Place Senior & T-Shirt
- \* Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Life Sciences

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle

3036 Modified Compost Leachate as a Narrow Spectrum Targeting Herbicide

**Student(s)** Sara Beck **Grade** 12 **Town** Milford

- \* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
- \* Fox Pest Control Award for Environmental Management --- \$150 Cash for Excellence in Environmental Management

**New London** Science and Technology Magnet HS Mr. Mulligan

3039 After crude oil has been added to wild caught phytoplankton, does Dawn soap help the phytoplankton or does it deform it to a greater effect?

**Student(s)** Tessa Rock **Grade** 10 **Town** New London

- \* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award

**Simsbury** Westminster School Mark DeKanter

3053 The Intracellular Motility Factors of Listeria Monocytogenes as a Platform for Liposomal Drug Delivery in Cancer

**Student(s)** Teagan Stedman **Grade** 10 **Town** Avon

- \* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award

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

**Greenwich** Brunswick School Dana Montanez

3082 Observing the Synergistic Effect of Pesticides on Terrestrial and Aquatic Ecosystems

**Student(s)** John Stefanou **Grade** 11 **Town** Old Greenwich

- \* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
- \* Society for In Vitro Biology --- Certificate and \$50 gift card to Amazon given by CSEF

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle

3086 Analysis of Honey Derivatives as a Functional Tumor Growth Suppressant

**Student(s)** Katharine Morris **Grade** 12 **Town** Bridgeport

- \* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
- \* Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- HS Life Sciences- \$150 / plaque
- \* Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Biochemistry

**Redding** CT STEM FAIR Deborah Day

3093 The Effect of Protective Material Type on Concussion Prevention

**Student(s)** Quinn Burke **Grade** 10 **Town** Woodbridge

- \* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
- \* American Society of Safety Engineers, CT Valley Chapter --- \$150 grade 9-12 project

**New London** Science and Technology Magnet HS Charles Mulligan

3099 The Effects of Hydrocarbon Exposure on Expression of the CaMV 35S Promoter in Genetically Modified Soybeans

**Student(s)** Sylvia Guijarro-Sines **Grade** 11 **Town** New London

- \* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award

**Watertown** The Taft School Alvin Reiff

3111 Development of New Filter for MRI Image Quality Improvement

**Student(s)** Joo Sung Yi **Grade** 10 **Town** Cresskill

- \* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award

**Woodbridge** Amity Regional High School Deborah Day

3118 GABA Responses in Adult MCH Neurons

**Student(s)** Rohan Patel **Grade** 11 **Town** Orange

- \* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award

## Life Sciences - High School Teams

**Greenwich** Brunswick School Dana Montanez

3527 Investigating the feasibility of a cooperative yeast-algae biofuel production system and its effects on biomass and resulting impurities

**Student(s)** Alexander Wada **Grade** 11 **Town** Old Greenwich

Colin MacFaddin **Grade** 11 **Town** Cos Cob

- \* Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High Team- \$500 (split) & Plaque
- \* Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award

**Greenwich** Brunswick School Dana Montanez

3524 Acropora and Anacropora Grafting: A Feasible Method to Reestablish Zooxanthellae Colonies following a Traumatic Bleaching Event

**Student(s)** Thacher Scannell **Grade** 10 **Town** Stamford

Edward Camel **Grade** 10 **Town** Greenwich

- \* Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High Team- \$300 (split) & Plaque
- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award

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

**Norwich** Norwich Technical High School Jesse Morin

3517 The effect of probiotic yeast on a fruit fly model of human MTP deficiency

**Student(s)** **Courtney Michaud** **Grade** 10 **Town** Norwich  
**Jaeden Spitale** **Grade** 10 **Town** Baltic  
**Kyle Tempesta** **Grade** 10 **Town** Uncasville

\* Pfizer Life Sciences Awards --- 3rd Place - Life Sciences Senior High Team - Plaque

**Shelton** Shelton High School Pamela Petro

3511 Clean the Seas: The Effects of Pollutants on Aquatic Life

**Student(s)** **Courtney Litts** **Grade** 10 **Town** Shelton  
**Lauren Pawlowski** **Grade** 10 **Town** Shelton

\* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion & Acrylic Award

\* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award

**Redding** Joel Barlow High School Dr. Katherine Nuzzo

3520 The Developmental Neuroscience of Rational Decision Making and Risk Taking in Childhood and Adolescence

**Student(s)** **Kate Wegener** **Grade** 10 **Town** Easton  
**Katherine Wright** **Grade** 10 **Town** Redding

\* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion & Acrylic Award

**Norwich** Norwich Technical High School Mrs. Lisa Elliott

3521 Stomping the Stigma of Schizophrenia

**Student(s)** **Lisa Garcia** **Grade** 12 **Town** Norwich  
**Hannah Holloway** **Grade** 12 **Town** Pawcatuck

\* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion & Acrylic Award

## Life Sciences - Middle School 7th Grade

**Danbury** Westside Middle School Academy Jonathan Neuhausel

2005 Study of Various Starch-based Biopolymers

**Student(s)** **Lasya Josyula** **Grade** 7 **Town** Danbury

\* Pfizer Life Sciences Awards --- 1st Place- Life Sciences 7th grade- \$200 & trophy and Invitation to Compete Broadcom MASTERS

\* Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- MS Life Sciences- \$200 / plaque

\* CASE Urban School Challenge Awards with Travelers --- 1st Place Middle School - \$300 and Trophy, Medallion

\* Sustainable Resources and Practices Awards --- 2nd Place Middle School - \$300 Cash and Trophy

\* 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 --- 1st Place- Biotechnology 7th grade- \$300 & trophy

\* Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp

\* **The Karen J. Howell Middle School Award for "Learning and Serving"**

--- The Karen J. Howell Middle School Award for "Learning and Serving" - \$1000 Life Science

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

**Wilton** Middlebrook Middle School Paige Randall

2065 Banana Peels: Second Life as a Water Purifier

**Student(s)** **Anika Bhagavatula** **Grade 7** **Town** Wilton

- \* Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- \* Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- MS Life Sciences- \$300 / plaque
- \* 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
- \* Alexion Biotechnology Awards --- 2nd Place- Biotechnology 7th grade- \$200 & trophy
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF
- \* Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner
- \* Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

**Enfield** St. Martha School Katie Rose Boissonneault

2003 Si High, Low, or No: Algae where would you like to grow?

**Student(s)** **Stephen Rougeot** **Grade 7** **Town** Enfield

- \* Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- \* J.A. Augustine Award --- \$100 for excellence in biology

**West Hartford** St. Timothy Middle School Mrs. Breen

2011 Flour Power

**Student(s)** **Christopher Baldini** **Grade 7** **Town** West Hartford

- \* Pfizer Life Sciences Awards --- 4th Place- Life Sciences 7th grade- trophy and Invite to Compete Broadcom MASTERS
- \* Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner

**Shelton** St. Joseph School Mr. Kieran Hyland

2024 The Stroop Effect

**Student(s)** **Lauren Greenfield** **Grade 7** **Town** Shelton

- \* Pfizer Life Sciences Awards --- 5rd Place- Life Sciences 7th grade- trophy

**Danbury** Westside Middle School Academy Mr. Neuhausel

2009 Ground Level Ozone in Danbury

**Student(s)** **Nicholas Raslavsky** **Grade 7** **Town** Danbury

- \* Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion & Acrylic Award
- \* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- \* TurnKey Compliance Solutions Environmental Awards --- \$200 Cash Award Middle School- For excellence in environmental sciences

**Enfield** St. Martha School Katie Rose Boissonneault

2010 The Effect of Caffeine on Plant Growth

**Student(s)** **Katherine DeVito** **Grade 7** **Town** Enfield

- \* Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion & Acrylic Award

**North Haven** North Haven Middle School Susan Jasinski

2022 What is the perfect absorbent for used cooking oil?

**Student(s)** **Soo Yeon Lee** **Grade 7** **Town** North Haven

- \* Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion & Acrylic Award
- \* National Oceanic and Atmospheric Administration --- Certificate, and medallion, and \$50 gift card to Amazon given by CSEF

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

**Bridgeport** High Horizons Magnet School Mrs. Scott-Thiam

2037 Fogponics

**Student(s)** **Rebecca Abirached** **Grade 7** **Town** Bridgeport

- \* Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion & Acrylic Award
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF

**Branford** CT Experiential Learning Center (CELC) Melinda Alcosser

2054 An Energy Bar That Sticks Best

**Student(s)** **Galina Cooper** **Grade 7** **Town** Milford

- \* Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion & Acrylic Award

### Life Sciences - Middle School 8th Grade

**Danbury** St. Gregory the Great School Christine Fahey

2526 An Egg-cellent Experiment

**Student(s)** **Analiese Seaman** **Grade 8** **Town** New Fairfield

- \* Pfizer Life Sciences Awards --- 1st Place- Life Sciences 8th grade- \$300 & trophy and Invite to Compete Broadcom MASTERS
- \* Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Life Sciences 8th Grade - \$500 and invite to CSTA Award Banquet

**Pawcatuck** St. Michael School Mr. DeNoia

2501 What is the most effective over the counter (OTC) antacid when it comes to neutralizing the pH level of stomach acid?

**Student(s)** **Sean Peglow** **Grade 8** **Town** Old Mystic

- \* Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 8th grade- \$200 & trophy and Invite to Compete Broadcom MASTERS

**Danbury** St. Joseph School Jennifer Reilly

2538 Influence of Climate Change on Lobster Population in Buzzards Bay Massachusetts: Implications for Long Island Sound

**Student(s)** **Bradley Kerr** **Grade 8** **Town** Danbury

- \* Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 8th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- \* Environmental Sciences Awards with CACIWC --- 2nd Place MS- \$200, Trophy, CACIWC gifts
- \* Alexion Biotechnology Awards --- 5th Place- Biotechnology 8th grade- trophy
- \* American Meteorological Society --- Certificate & \$50 Amazon gift card given by CSEF
- \* Yale Peabody Museum --- One-Year Family Membership to the Yale Peabody Museum
- \* Southeastern New England Marine Educators --- \$100 award and membership in SENEME - 1st Place Junior & T-Shirt
- \* Project Oceanology --- Individual - Book + 2 tickets, First Place Junior, check for \$100, t-shirt
- \* Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, air pollution related
- \* Greenwich Shellfish Commission Marine Ecology Awards --- Middle School Award for Excellence in Marine Ecology Award- Ocean Camp at Project Oceanology

**West Hartford** St. Timothy Middle School Christina Simao-Breen

2515 Is Tap Water Safe to Drink in Connecticut?

**Student(s)** **Benjamin Lee** **Grade 8** **Town** Avon

- \* Pfizer Life Sciences Awards --- 4th Place- Life Sciences 8th grade- trophy and Invite to Compete Broadcom MASTERS



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

**Hartford** Environmental Sciences Magnet at Mary Hooker Mrs. Hays

2527 Toadiet

**Student(s)** **Jacob Natcha** **Grade 8** **Town** Winsted

\* Pfizer Life Sciences Awards --- 5th Place- Life Sciences 8th grade- trophy and Invite to Compete Broadcom MASTERS

**Danbury** Westside Middle School Academy Jonathan Neuhausel

2031 Dirty to Clean

**Student(s)** **Luke Hickey** **Grade 8** **Town** Danbury

\* Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion & Acrylic Award

**Hartford** Environmental Sciences Magnet at Mary Hooker David Cappaert

2507 Man Vs Wild:  
A Study of Plant Biodiversity in Overgrown Ecosystems

**Student(s)** **Austin Zemsta** **Grade 8** **Town** New Britain

\* Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion & Acrylic Award  
\* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award  
\* Ricoh Americans Corporation --- Certificate, \$50 gift card to Amazon given by CSEF  
\* Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum

**Wilton** Middlebrook Middle School C. Festa.

2512 Plants to Cool the Planet.

**Student(s)** **Megha Gupta** **Grade 8** **Town** WILTON

\* Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion & Acrylic Award

**Shelton** St. Joseph School Mr. Kieran Hyland

2521 Re-Think What You Drink

**Student(s)** **Emily Borges** **Grade 8** **Town** Shelton

\* Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion & Acrylic Award

**Trumbull** Christian Heritage School Mrs. Oshin

2525 Will Seeds Be Affected by Space Exposure

**Student(s)** **Benjamin Wolf** **Grade 8** **Town** New Haven

\* Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion & Acrylic Award  
\* U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate

**Plantville** J.F. Kennedy Middle School Mrs. Pepin

2546 Seed Germination in Different Mediums

**Student(s)** **Avery Cowen** **Grade 8** **Town** Marion / Southington

\* Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion & Acrylic Award

### Life Sciences - Middle School Teams

**Stratford** St. Mark School Ms. Xanthos

1004 Music and Memory Does Music have a Positive Impact on Alzheimer's Patients

**Student(s)** **Ashlinn Derleth** **Grade 8** **Town** Trumbull

**Christina diBenedetto** **Grade 8** **Town** Stratford

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

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

**Danbury** Westside Middle School Academy Jonathan Neuhausel

1023 Mutagenesis in Bacteriophage Phi X174 to Induce a Target Host of Escherichia Vulneris

**Student(s)** **Sarah Johnson** **Grade 8** **Town** Danbury  
**Anjeli Joseph** **Grade 8** **Town** Danbury

- \* Pfizer Life Sciences Awards --- 2nd Place- Life Sciences MS Team- \$100 each & trophy and Invite Compete Broadcom MASTERS
- \* Alexion Biotechnology Awards --- 2nd Place- Biotechnology 8th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS

**Bethel** St. Mary School Mrs. Kate McDonald

1016 Do You C The Vitamins?

**Student(s)** **Madeline Suarez** **Grade 8** **Town** Bethel  
**Abigail Gleissner** **Grade 8** **Town** Bethel

- \* Pfizer Life Sciences Awards --- 3rd Place- Life Sciences MS Team- trophy and Invite to Compete Broadcom MASTERS

**Guilford** E.C. Adams Middle School Ms. Meyerjack

1005 The Effect of Different Types of Fruit on the Amount of DNA Extracted

**Student(s)** **Edward Glover** **Grade 7** **Town** Guilford  
**Anthony Ippolito** **Grade 7** **Town** Guilford

- \* Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion & Acrylic Award

**Bridgeport** Park City Prep Charter School Jonathan Jaekle

1011 Energy Bars: True or False

**Student(s)** **Imani Lopez** **Grade 8** **Town** Bridgeport  
**Pierre Tilus** **Grade 8** **Town** Bridgeport

- \* Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion & Acrylic Award

**Stratford** St. Mark School Mrs. Orendorf

1019 Sugar Uncovered

**Student(s)** **Natalie Sciallo** **Grade 8** **Town** Stratford  
**Kelly DeRosa** **Grade 8** **Town** Stratford

- \* Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion & Acrylic Award
- \* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist- Life Sciences - Medallion and Acrylic Award
- \* Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School Life Sciences

**Danbury** St. Gregory the Great School Christine Fahey

1020 The Effect of Salt on Plant Growth

**Student(s)** **Eric McNamara** **Grade 7** **Town** Danbury  
**Thomas Fahey** **Grade 7** **Town** Danbury

- \* Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion & Acrylic Award
- \* Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash

**Danbury** St. Gregory the Great School Mrs. Fahey

1024 Let's Go Bananas!  
The Effect Of Ripeness On Banana DNA Extraction

**Student(s)** **Zachary Meyerson** **Grade 7** **Town** Danbury  
**Dionie Smith** **Grade 7** **Town** Danbury

- \* Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion & Acrylic Award
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion & Acrylic Award
- \* Connecticut Science Supervisors Association --- \$125 for a middle school project



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

## Physical Sciences - High School Individual

**Greenwich** Greenwich High School Andrew Bramante

6055 Increased Charge Rate and Capacity for Olivine Lithium-Ion Batteries Using Efficient, Upcycled Nanoscale Electrodes

**Student(s)** Christopher Popham **Grade** 11 **Town** Old Greenwich

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- 1st Place - Physical Sciences Senior High Individual - \$500 & Plaque, trip to compete at Intel ISEF
- \* UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, 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
- \* Yale Science & Engineering Association, Inc. --- Certificate, \$50 gift card to Amazon given by CSEF

**Danbury** Immaculate High School Mrs. Bridget Henry

6042 Novel Glycerol-Free Biodiesel Production Using Enzyme Catalysis

**Student(s)** Martha Haddad **Grade** 11 **Town** Danbury

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & Plaque, trip to compete at Intel ISEF
- \* ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2016 Sustainability Solutions Festival and \$50 Gift Card

**Middlebury** Westover School Ben Hildebrand

6009 The Pick Me Up Stander Walker: Designing A Device to Assist with Sit to Stand Transfers and Ambulation

**Student(s)** Caleigh Waskowicz **Grade** 12 **Town** Southington

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- 3rd Place- Physical Sciences Senior High Individual - \$200 & Plaque
- \* Barnes Aerospace Applied Technology Awards --- 2nd Place High School - \$300 and Plaque Medallion
- \* UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Engineering: Mechanical

**Greenwich** Greenwich High School Andrew Bramante

6015 Self-Sustaining Biosynthesis of Methane from CO<sub>2</sub> via a Microbial & Electrochemical Hybrid System

**Student(s)** Devyn Zaminski **Grade** 11 **Town** Greenwich

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- 4th Place- Physical Sciences Senior High Individual - Plaque
- \* Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- HS Phys. Sciences- \$250 / plaque
- \* UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- \* ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2016 Sustainability Solutions Festival and \$50 Gift Card
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate
- \* Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related

**Redding** CT STEM FAIR Deborah Day

6078 The Fabrication and Characterization of Carbon Nanotubes Using Different Transition Metal Nanoparticles

**Student(s)** Jacob Silliman **Grade** 10 **Town** Woodbridge

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- 5th Place- Physical Sciences Senior High Individual - Plaque
- \* American Society for Metals - Hartford Chapter --- \$100 Check

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

**Greens Farms** Greens Farms Academy Dr. Freeman

6005 Optimization of the Venturi Effect With Applications in Horizontal-Axis Hydroelectric Turbines in Order to Maximize Power Coefficients

**Student(s)** Simon Stone **Grade** 12 **Town** Wilton

\* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award

**New Haven** Engineering Science University Magnet School Mr. Roger Rushworth

6022 An Approach to Converting Pollutant CO2 Emissions into Methanol Fuels to Reduce Environmental Harm from Greenhouse Gases

**Student(s)** Prastik Mohanraj **Grade** 9 **Town** Ansonia

\* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award

\* CASE Urban School Challenge Awards with Travelers --- 3rd Place High School - \$ 300 and Plaque, Medallion

\* Alternative/Renewable Energy Awards --- 3rd Place High School - \$200 Cash and Plaque

\* Environmental/ Energy Award- Urban Public School Award --- \$100 Award for top environmental or alternative energy project from a New Haven public school

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle

6026 Novel Application of an Electromagnetic Induction Field to Inhibit Surface Bio-Fouling in the Marine Environment

**Student(s)** Zachary Dillon **Grade** 12 **Town** Stratford

\* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award

\* ASM Materials Education Foundation --- Certificate & \$50 gift card to Amazon given by CSEF

\* ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2016 Sustainability Solutions Festival and \$50 Gift Card

**Greenwich** Greenwich High School Andrew Bramante

6043 Construction of an Agonistic Pneumatic Artificial Muscle Air Conservation System

**Student(s)** Wesley Heim **Grade** 10 **Town** Cos Cob

\* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award

\* David and Torrey Fenton Awards --- For creative work in the physical sciences- \$250 cash

**Greenwich** Greenwich High School Andrew Bramante

6048 Fabrication of a Magnetically Vertical-Aligned Boron Nitride Nanotube Membrane in a Lyotropic Precursor for Salinity Gradient Power

**Student(s)** Connor Li **Grade** 11 **Town** Cos Cob

\* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award

\* U.S. Metric Association --- Certificate & \$50 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

**Glastonbury** Glastonbury High School Diane Pintavalle

6054 Effectiveness of Amino Acid-Functionalized Gold Nanoparticles for Colorimetric Detection of Mercury in Water

**Student(s)** Danielle Cai **Grade** 10 **Town** Glastonbury

\* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award

**Trumbull** Christian Heritage School Daniel Cote

6056 Object Detection for Autonomous Drone Navigation

**Student(s)** Hannah Shipman **Grade** 11 **Town** Trumbull

\* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award

\* Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award

\* Skills21 at EDUCATION CONNECTION --- \$100 For innovative use of technology to advance science or engineering

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

**Greenwich** Greenwich High School Andrew Bramante

6057 Water Droplet Repulsion and Reduced Icing Tendencies on Superhydrophobic Surfaces

**Student(s)** Haley Stober **Grade** 10 **Town** Old Greenwich

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- \* Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- HS Phys. Sciences- \$150 / plaque
- \* ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2016 Sustainability Solutions Festival and \$50 Gift Card

**Shelton** Shelton High School Charles Fowler

6081 How does pitch effect turbine efficiency

**Student(s)** Jacob Zuklie **Grade** 10 **Town** Shelton

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- \* American Society for Quality - Thames Valley Section --- \$250 Cash Award

**Canton** Canton High School Stephen Riley

6084 Saxophone Overtones

**Student(s)** Zachary Oliver **Grade** 12 **Town** Canton

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- \* Connecticut Association of Physics Teachers --- \$100 Senior project
- \* Connecticut College-Physics, Astronomy, & Geophysics Dept. --- \$150 and certificate, Senior Physics & teeshirt

**Tolland** Stonewall Academy Donald Peck

6085 Designing an Airfoil Spinner to Improve the Efficiency of Horizontal Axis Wind Turbines

**Student(s)** Amelia Peck **Grade** 10 **Town** Tolland

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- \* People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion & Acrylic Award
- \* Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- HS Phys. Sciences- \$500 / plaque
- \* Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Plaque, Trip to Compete I-SWEEP, Houston
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- \* Mu Alpha Theta --- Certificate, \$50 gift card to Amazon given by CSEF
- \* Constellation, an Exelon Company --- 1st: \$200.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy
- \* MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, high school, \$100 cash award
- \* Arthur Mensing Award --- \$1000 cash award for excellence in the physical sciences
- \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Energy & Transportation

## Physical Sciences - High School Teams

**Westport** Staples High School Nick Morgan

6502 Synthesis, Characterization, and Application of Noble Metal and Noble Metal Alloy Nanoparticles to Proton Exchange Membrane Fuel Cells for Enhanced Catalytic Activity

**Student(s)** Xiaotian Zhang **Grade** 12 **Town** Westport  
Arun Soni **Grade** 12 **Town** Westport

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- 1st Place- Physical Sciences Senior High Team- \$500 (split) & Plaque
- \* Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- \* American Society for Metals - Hartford Chapter --- \$100 Check

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

**Woodbridge** Amity Regional High School Ms. Deborah Day

6521 Designing a Ventricular Assist Device Using Ferrofluids and Electromagnets as an Actuating Mechanism

**Student(s)** Sarah Saxe **Grade** 11 **Town** Woodbridge  
Julia Nadelmann **Grade** 11 **Town** Woodbridge

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Team- \$300(split) & Plaque
- \* IEEE, Connecticut Section --- \$100 Honorable Mention
- \* Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a High School student, \$200 cash

**Hamden** Sacred Heart Academy Mrs. Brownell

6517 Printing Skin: Using Different Polymer Filaments to Print a Prosthetic Covering

**Student(s)** Eunji Lee **Grade** 10 **Town** Trumbull  
Priya Patel **Grade** 11 **Town** Derby

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- 3rd Place - Physical Sciences Senior High Team - Plaque
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- \* Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Physical Sciences

**Greenwich** Brunswick School Dana Montanez

6529 The Future of the Prosthetic Limb: Sacrificing Visual Aesthetics and Individualized Movement to Yield Greater Strength and Utility

**Student(s)** Matt Restieri **Grade** 10 **Town** Riverside  
Chris Burdick **Grade** 10 **Town** Riverside  
Greyson Wolfram **Grade** 10 **Town** Riverside

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion & Acrylic Award
- \* Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award

## Physical Sciences - Middle School 7th Grade

**Southington** J.A. DePaolo Middle School Ms. Shea

5008 Battle of the Loops

**Student(s)** Faith Kosior **Grade** 7 **Town** Southington

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- 1st Place- Physical Sciences 7th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
- \* People's United Bank Mathematics Awards - with ATOMIC --- Middle School Finalist - Medallion & Acrylic Award
- \* Connecticut College-Physics, Astronomy, & Geophysics Dept. --- \$150 and certificate, Junior Physics & teeshirt
- \* Dreams Unlimited Award --- \$100 Cash Award + Certificate

**New Haven** Worthington Hooker School Douglas Jones

5012 Acing the Wing

**Student(s)** Alexandra Northrup **Grade** 7 **Town** New Haven

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- 2nd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS
- \* 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 Jonathan Neuhausel

5035 Effect of Nozzle Size for Compressed Air Water Rockets

**Student(s)** Gryffin Syme **Grade 7** **Town** Danbury

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- 3rd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS
- \* American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate
- \* Astronomical Society of Greater Hartford --- Junior Project-\$100, subscription to Sky and Telescope magazine and ASGH meeting invitation

**Bridgeport** Park City Prep Charter School Mr. Jaekle

5036 Water, Water Everywhere, But Not A Drop To Drink

**Student(s)** Antonios Boudreau **Grade 7** **Town** Ansonia

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- 4th Place- Physical Sciences 7th Grade Ind. - trophy, invite to compete Broadcom MASTERS
- \* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award

**Hartford** Sport and Medical Sciences Academy Marianne Vitali

5005 Natural Plastic

**Student(s)** Madison Lee **Grade 7** **Town** Rocky Hill

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- 5th Place- Physical Sciences 7th Grade Individual - trophy
- \* Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- MS Phys. Sciences- \$300 / plaque
- \* CASE Urban School Challenge Awards with Travelers --- 4th Place Middle School - Trophy, Medallion
- \* Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- \* UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- \* Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & trophy
- \* ASM Materials Education Foundation --- Certificate & \$50 gift card to Amazon given by CSEF
- \* Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre
- \* Stanley Lessoff Award for Excellence In Analytical Technique --- \$100 Cash and Plaque
- \* Fred Bailey Memorial Award --- \$250 for innovative research- Hartford Urban Middle School Project
- \* Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

**Danbury** St. Joseph School Jennifer Reilly

5004 Efficient Low Energy Salt Water Desalination

**Student(s)** Elias Haddad **Grade 7** **Town** Danbury

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion & Acrylic Award
- \* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- \* Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- \* MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, middle school, \$100 cash award
- \* Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

**Hartford** Environmental Sciences Magnet at Mary Hooker Mr Clark

5016 Corked?

**Student(s)** Kevin Braunwart **Grade 7** **Town** Hebron

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion & Acrylic Award
- \* CASE Urban School Challenge Awards with Travelers --- 3rd Place Middle School - \$100 and Trophy, Medallion
- \* Fred Bailey Memorial Award --- \$250 for innovative research- Hartford Urban Middle School Project

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

**Wilton** Middlebrook Middle School Paige Randall

5023 Building a Battery

**Student(s)** **Nina Ferrucci** **Grade 7** **Town** Wilton

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion & Acrylic Award
- \* IEEE, Connecticut Section --- \$100 Honorable Mention

**Hebron** Oei - Homeschool Ellen McHugh

5026 Hydropower Tiles: A Novel Approach to Harvesting Energy from Human Locomotion

**Student(s)** **John Oei** **Grade 7** **Town** Hebron

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion & Acrylic Award
- \* Alternative/Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- \* Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- \* UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- \* Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre
- \* IEEE, Connecticut Section --- \$250 Honors Award -Junior
- \* Society of Women Engineers - Hartford Section --- Scientific Calculator
- \* Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"
- \* Bob Harris Fix It Award --- \$75 and Certificate for ingenuity in using material and tools

**Groton** Sacred Heart School Merrijo Logan

5039 Induced Magnetism - Applying Lenz's Law

**Student(s)** **Michael Luzzio** **Grade 7** **Town** Groton

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion & Acrylic Award

## Physical Sciences - Middle School 8th Grade

**Bozrah** Fields Memorial School Evelyn Brown

5518 Producing Renewable Energy Using Piezoelectric Walking Surfaces

**Student(s)** **Dravyn Okoney** **Grade 8** **Town** Bozrah

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & trophy, invite to compete Broadcom MASTERS
- \* Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
- \* Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- \* UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- \* Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF
- \* Ricoh Americans Corporation --- Certificate, \$50 gift card to Amazon given by CSEF
- \* Constellation, an Exelon Company --- 2nd: \$75.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
- \* Connecticut Association for the Gifted --- Leonardo Davinci 7-8 Grade \$50 Gift Certificate
- \* Spirit of Invention Award --- \$100 Cash and Plaque for Inventive Concepts



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

**Danbury** Westside Middle School Academy Mr. Neuhausel

5530 Harvesting Wind From Street Canyons Using A Double Helix Wind Turbine

**Student(s)** Jeffrey Osborne **Grade 8** **Town** Danbury

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
- \* CASE Urban School Challenge Awards with Travelers --- 2nd Place Middle School - \$200 and Trophy, Medallion
- \* Sustainable Resources and Practices Awards --- 3rd Place Middle School - \$200 Cash and Trophy
- \* Urban School Challenge 1st Place Middle School Awards --- Highest Placing 8th grader- GENIUS-Olympiad- \$500 travel stipend
- \* Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

**Bethany** Amity Reg Middle School, Bethany Campus Mr. Berean

5567 The Hand-Writer Helper

**Student(s)** Michael Baitch **Grade 8** **Town** Woodbridge

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- 3rd Place- Physical Sciences 8th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS
- \* Barnes Aerospace Applied Technology Awards --- 2nd Place Middle School - \$200 and Trophy, Medallion
- \* Talcott Mountain Science Center --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Phys Science
- \* Lunch with a Patent Attorney --- Lunch with a Patent Attorney
- \* Jon Stone Memorial Award --- \$150 cash for Innovative Engineering
- \* Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"
- \* John S. Kendall Memorial Awards --- \$300 John S. Kendall Award for Excellence In Mechanical Engineering - Middle School

**Bozrah** Fields Memorial School Mrs. E Brown

5506 Spherification

**Student(s)** Sophia DiCocco **Grade 8** **Town** Bozrah

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- 4th Place- Physical Sciences 8th Grade Ind. - trophy, invite to compete Broadcom MASTERS

**New Haven** Engineering Science University Magnet School Roger Rushworth

5545 Polyurethane Foam as Acoustic Insulation for uses in Aviation Technology

**Student(s)** Arya Bairat **Grade 8** **Town** Milford

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- 5th Place- Physical Sciences 8th Grade Ind. - trophy, invite to compete Broadcom MASTERS
- \* U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate
- \* Connecticut Academy of Audiology --- \$150 Cash Award Middle School- For Excellence in Audiology and Acoustics

**Danbury** St. Joseph School Jennifer Reilly

5509 Different Quantities of Blades Used for Producing the Most Power

**Student(s)** Sean Guiry **Grade 8** **Town** Danbury

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award

**Bozrah** Fields Memorial School Evelyn Brown

5523 Investigate the Use of Mesoporous Insulations to Increase Survival Duration In Extreme Cold

**Student(s)** Brendan Toth **Grade 8** **Town** Bozrah

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award

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

**Bozrah** Fields Memorial School Evelyn Brown

5531 Using Solar Engine Circuits to Power Electrical Devices

**Student(s)** **Victoria Smith** **Grade 8** **Town** Bozrah

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
- \* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist- Physical Sciences - Medallion and Acrylic Award
- \* Society of Women Engineers - Hartford Section --- Scientific Calculator

**Bethany** Amity Reg Middle School, Bethany Campus Mr. Berean

5541 The Eco-Charge

**Student(s)** **Sophia Wang** **Grade 8** **Town** Woodbridge

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
- \* Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- MS Phys. Sciences- \$150 / plaque
- \* Association for Women Geoscientists --- Certificate & \$50 gift card to Amazon given by CSEF

**West Hartford** St. Timothy Middle School Mrs. Christina Simao-Breen

5550 Sustainable Wireless Powered House

**Student(s)** **Steven Liu** **Grade 8** **Town** West Hartford

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
- \* Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award
- \* Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- \* Constellation, an Exelon Company --- 1st: \$125.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy

**Danbury** Westside Middle School Academy Jonathon Neuhausel

5561 The effect that different ingredient ratios have on the mechanical strength of bioplastics.

**Student(s)** **Sanjana Shriram** **Grade 8** **Town** Danbury

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
- \* Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- MS Phys. Sciences- \$200 / plaque
- \* CASE Urban School Challenge Awards with Travelers --- Middle School Finalist - Medallion and acrylic award
- \* ASM Materials Education Foundation --- Certificate & \$50 gift card to Amazon given by CSEF
- \* Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related

## Physical Sciences - Middle School Teams

**Bethany** Amity Reg Middle School, Bethany Campus Mr. Berean

4009 The TempBot

**Student(s)** **Ana Boccanfuso** **Grade 8** **Town** Woodbridge  
**Saunder Safran** **Grade 8** **Town** Bethany

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- 1st Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
- \* Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- \* Xerox Computer Science Awards --- Middle School Finalist - Medallion, Acrylic Award
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF
- \* IEEE, Connecticut Section --- \$100 Honorable Mention

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

**Branford** CT Experiential Learning Center (CELC) Melinda Alcosser

4039 BullyCheck - Designing Anti-Bullying Software

|                   |                       |                |                        |
|-------------------|-----------------------|----------------|------------------------|
| <b>Student(s)</b> | <b>Sue Hemingway</b>  | <b>Grade 8</b> | <b>Town</b> Branford   |
|                   | <b>Sophie Burdick</b> | <b>Grade 7</b> | <b>Town</b> Deep River |

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- 2nd Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
- \* Barnes Aerospace Applied Technology Awards --- 1st Place Middle School - \$300 and Trophy, Medallion
- \* **The Karen J. Howell Middle School Award for "Learning and Serving"**  
--- The Karen J. Howell Middle School Award for "Learning and Serving" - \$1000 Physical Science

**Windsor** St. Gabriel School Margaret Rosa

4010 The Thermoelectric Trivet: A Device For Converting Waste Heat From Cooking Into DC Current

|                   |                       |                |                     |
|-------------------|-----------------------|----------------|---------------------|
| <b>Student(s)</b> | <b>Benjamin Clark</b> | <b>Grade 8</b> | <b>Town</b> Windsor |
|                   | <b>Alma Clark</b>     | <b>Grade 8</b> | <b>Town</b> Windsor |

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- 3rd Place- Physical Sciences MS Team- trophy, invite to compete Broadcom MASTERS
- \* Environmental Sciences Awards with CACIWC --- 3rd Place MS- \$100, Trophy, CACIWC gifts

**Bethany** Amity Reg Middle School, Bethany Campus Mr. Berean

4001 Emergency Oil Spill Robot

|                   |                           |                |                        |
|-------------------|---------------------------|----------------|------------------------|
| <b>Student(s)</b> | <b>Victor You</b>         | <b>Grade 8</b> | <b>Town</b> Woodbridge |
|                   | <b>Benjamin Goldstein</b> | <b>Grade 8</b> | <b>Town</b> Woodbridge |
|                   | <b>Ryan Kelley</b>        | <b>Grade 8</b> | <b>Town</b> Woodbridge |

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion & Acrylic Award
- \* Barnes Aerospace Applied Technology Awards --- 3rd Place Middle School - \$100 and Trophy, Medallion
- \* National Oceanic and Atmospheric Administration --- Certificate and medallion, , and \$50 gift card to Amazon given by CSEF

**Windsor** St. Gabriel School Mrs. Rosa

4021 What shapes your Chute?

|                   |                    |                |                     |
|-------------------|--------------------|----------------|---------------------|
| <b>Student(s)</b> | <b>Kennedy Tor</b> | <b>Grade 8</b> | <b>Town</b> Windsor |
|                   | <b>Sean Glick</b>  | <b>Grade 8</b> | <b>Town</b> Windsor |

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion & Acrylic Award
- \* American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate

**North Haven** North Haven Middle School Susan Jasinski

4023 How does the angle of a solar panel effect the electricity absorbed?

|                   |                       |                |                         |
|-------------------|-----------------------|----------------|-------------------------|
| <b>Student(s)</b> | <b>Laekhrum Singh</b> | <b>Grade 8</b> | <b>Town</b> North Haven |
|                   | <b>Brijesh Vyas</b>   | <b>Grade 8</b> | <b>Town</b> North Haven |

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion & Acrylic Award

**Canton** Canton Middle School Mr. Riley

4026 The Note Glove

|                   |                      |                |                    |
|-------------------|----------------------|----------------|--------------------|
| <b>Student(s)</b> | <b>Gabriel Mower</b> | <b>Grade 8</b> | <b>Town</b> Canton |
|                   | <b>Adam Obrzut</b>   | <b>Grade 8</b> | <b>Town</b> Canton |

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion & Acrylic Award
- \* Xerox Computer Science Awards --- Middle School Finalist - Medallion, Acrylic Award
- \* Connecticut Academy of Audiology --- \$150 Cash Award Middle School- For Excellence in Audiology and Acoustics

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

**Greenwich** Greenwich Catholic School Mrs. Lutz

4027 Catch Me If You Can

**Student(s)** **Dylan Allman** **Grade 8** **Town** Stamford  
**Harrison Day** **Grade 8** **Town** Stamford

\* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion & Acrylic Award

**Hamden** Hamden Middle School Danny Martins

4037 Nitrates and pH and Rain, Oh My!

**Student(s)** **Paige Campbell** **Grade 8** **Town** Hamden  
**Katherine Bergherr-Hall** **Grade 8** **Town** Hamden

\* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion & Acrylic Award

\* Association for Women Geoscientists --- Certificate, \$50 gift card to Amazon given by CSEF, possible advance to further competition