



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

Sorted by:
 - School Town
 - School
 - Last Name

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

Avon Avon High School Andrea Galuska

6507 Renewable Hydrogen-Based Automotive Engine (HICEV): Using a Novel Electrolysis Apparatus to Improve Cost-Efficiency

Student(s) Humza Zaidi **Grade** 10 **Town** Avon

Chris Swetzes **Grade** 10 **Town** Avon

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

Avon Talcott Mountain Academy Dr. Jessica Lodwick

2548 Using Artificial Neural Networks to Diagnose Prostate Cancer Malignancy

Student(s) Zan Huang **Grade** 8 **Town** West Hartford

* People's United Bank Mathematics Awards - with ATOMIC --- 2nd Place Middle School- \$100 from ATOMIC, and Trophy, \$200 from People's United Bank
 * Xerox Computer Science Awards --- 2nd Place Middle School - \$200, Trophy and Medallion

Avon Talcott Mountain Academy Dr. Jessica Lodwick

2035 Do Algorithms Dream of Electric Trees?

Student(s) Aresh Pourkavoos **Grade** 7 **Town** Avon

* People's United Bank Mathematics Awards - with ATOMIC --- 1st Place Middle School- \$150 from ATOMIC, and Trophy, \$300 from People's United Bank
 * Xerox Computer Science Awards --- 1st Place Middle School - \$300, Trophy and Medallion
 * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

Avon Talcott Mountain Academy Jessica Lodwick

2510 Utilizing Microbes And Chlorella Vulgaris Algae To Construct An Eco-Friendly Microbial Fuel Cell

Student(s) Yusuf Zaidi **Grade** 8 **Town** Avon

* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award
 * 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 TMS - 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

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

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean

4009 The TempBot

Student(s)	Ana Boccanfuso	Grade 8	Town Woodbridge
	Saunder Saffran	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

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean

4005 Musical Hands; Prosthetic Components to Assist Disabled Musicians

Student(s)	Olivia Gross	Grade 8	Town Woodbridge
	Ruth Berganross	Grade 8	Town Woodbridge

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean

4029 Litter Bot

Student(s)	Tracy Lu	Grade 8	Town Woodbridge
	Nicole Cohen	Grade 8	Town Woodbridge

- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist- Physical Sciences - Medallion and Acrylic Award

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean

4013 The Enemill

Student(s)	Laurella Marin	Grade 8	Town Woodbridge
	Rhea Dey	Grade 8	Town Woodbridge

- * Alternative/Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean

5541 The Eco-Charge

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

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean

4001 Emergency Oil Spill Robot

Student(s)	Victor You	Grade 8	Town Woodbridge
	Benjamin Goldstein	Grade 8	Town Woodbridge
	Ryan Kelley	Grade 8	Town 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

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

Bethel Bethel High School Ray Turek

3038 Decoding Dangerous DNA

Student(s) **Monisha Das** **Grade 12** **Town** Bethel

- * Xerox Computer Science Awards --- 3rd Place High School- \$200, Plaque, Medallion
- * Intel Excellence in Computer Science Award --- \$200 & certificate
- * Leask/Francoeur Family Awards --- 1st Place High School- For innovation electrical engineering or computer science - \$200 cash
- * Cell Analysis and Modeling Award - Center for Cell Analysis and Modeling at UCHC --- \$100 monetary prize- and Tour of the Cell and Genome Sciences Institute at UCONN Health Center
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Cell and Molecular Biology

Bethel St. Mary School Mrs. Kate McDonald

5510 Water Wizard: Incorporating the Simplicity of Water Testing Strips with the Complexity and Sophistication of a Smartphone Application While Utilizing Mathematics

Student(s) **Kevin Legnard** **Grade 8** **Town** Bethel

- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash

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

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

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]

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

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

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

Branford CT Experiential Learning Center (CELC) Melinda Alcosser

4039 BullyCheck - Designing Anti-Bullying Software

Student(s) Sue Hemingway **Grade 8** **Town** Branford
Sophie Burdick **Grade 7** **Town** 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

Bridgeport Bridgeport Military Academy Mrs. Andrade

6044 Hydrogen, The Futures Fuel.

Student(s) Facundo Cremel **Grade 10** **Town** Bridgeport

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

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

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

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

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3114 Analyzing the use of Moon Jellyfish, Aurelia aurita, Collagen as a Viable Alternative in Medical Applications

Student(s) **Kylie Fawcett** **Grade 12** **Town** Fairfield

- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- HS Life Sciences- \$250 / plaque
- * CASE Urban School Challenge Awards with Travelers --- 4th Place High School - Plaque, Medallion

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

6029 Development of a biochar based, sorption material to regulate nitrogen compounds in aquatic and terrestrial environments.

Student(s) **Madeline Gill** **Grade 12** **Town** Fairfield

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Stockholm Junior Water Prize --- Certificate, \$50 gift card to Amazon given by CSEF, possible advance to further competition

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

6039 Triboelectric Series and its relation concerning power generation in Triboelectric Nano generators

Student(s) **Randy Kaufman** **Grade 12** **Town** Stratford

- * CASE Urban School Challenge Awards with Travelers --- Senior High Finalist - Medallion and acrylic award
- * Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

6008 Observing the Deposition Process of Synthesized of Graphene Oxide and Iron Oxide to Establish a Stable Magnetic Field

Student(s) **Stephanie Kreidler** **Grade 12** **Town** Shelton

- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist- Physical Sciences - Medallion and Acrylic Award
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Chemistry

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

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

6034 Development of a Zero Net Energy Hydrogen Fuel Cell System for the Purpose of Generating Potable Water

Student(s) **Danielle Peterson** **Grade 12** **Town** Stratford

- * Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3052 Using biochar and 8-methyl-N-vanillyl-trans-6- nonenamide as a nontoxic agricultural pest inhibitor for glycine max

Student(s) **Skylynn Reyes** **Grade 12** **Town** Bridgeport

- * Environmental Sciences Awards with CACIWC --- 1st Place HS- \$500, Plaque, CACIWC gifts, Trip to Compete I-SWEEEP, Houston
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Environmental Science

Bridgeport Fairchild Wheeler Interdistrict Magnet Mrs. Jamie Warner

3047 An Investigation into the Affect of Computer Puzzle Games on Student Test Scores

Student(s) **Steven Siveyer** **Grade 9** **Town** Monroe

- * Xerox Computer Science Awards --- Senior High Finalist - Medallion, Acrylic Award

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

Bridgeport Fairchild Wheeler Interdistrict Magnet Marilyn Pearson

6061 Determining whether or not the Quicksort is really the quickest

Student(s) Steven vanZyl **Grade** 11 **Town** Trumbull

* People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion & Acrylic Award

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

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

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

Bridgeport Park City Prep Charter School Jonathan Jaekle

5557 Saltifying Shock

Student(s) Willow Marks **Grade** 8 **Town** Bridgeport

* CASE Urban School Challenge Awards with Travelers --- Middle School Finalist - Medallion and acrylic award

Bristol St. Paul Catholic High School Mr Aliberti

6006 A Novel Approach To Help Households Use Less Water

Student(s) Kamila Krawczuk **Grade** 10 **Town** New Britain

* Xerox Computer Science Awards --- Senior High Finalist - Medallion, Acrylic Award

* Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award

* 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.

* ISA - International Society for Automation - Ct. Valley Section --- 2nd - \$75 award

* CSF Board of Directors Award --- certificate and \$50 Amazon gift card given by CSF

* The Connecticut Technology Council Young Woman Innovation Award --- \$150 Cash Award for Technological Innovation

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

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

Canton Canton Middle School Mr. Riley

4026 The Note Glove

Student(s) **Gabriel Mower** **Grade 8** **Town** Canton
Adam Obrzut **Grade 8** **Town** 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

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

Danbury St. Gregory the Great School Christine Fahey

2504 Celling Power

Student(s) **George Hyland** **Grade 8** **Town** New Fairfield

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award

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

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

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

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

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"

Danbury St. Joseph School Jennifer Reilly

1015 The effect of x-ray radiation on the reproduction of Fruit Flies.

Student(s) **Patrick Iannetta** **Grade 8** **Town** Danbury

James O'Keefe **Grade 8** **Town** Danbury

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th 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

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

Danbury St. Joseph School Jennifer Reilly

1032 Preventing Bacteria Growth in Food

Student(s) **Matthew Riggs** **Grade 7** **Town** Danbury

Steven Soto **Grade 7** **Town** Danbury

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 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
- * Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to dinner
- * Sister Mary Christine Life Sciences Award --- \$150 and plaque for excellence in the life sciences by a catholic middle school project

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

[SchTown] [School] [Teacher]
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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

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

Danbury Westside Middle School Academy Mr. Jonathan Neuhausel

2049 Effect of Watering Green Vegetable Plants With Chlorophyll-Rich Solutions to Increase Overall Chlorophyll Content

Student(s) **Benjamin Laham** **Grade 7** **Town** Danbury

- * CASE Urban School Challenge Awards with Travelers --- 5th Place Middle School - Trophy, Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion & Acrylic Award

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"

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

[SchTown] [School] [Teacher]
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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

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

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

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

Fairfield Fairfield College Preparatory School Deborah Kiel

6052 Application of Computer Vision in Pupil and Eye Center Tracking

Student(s) Hanson Mo **Grade 11** **Town** Fairfield

- * People's United Bank Mathematics Awards - with ATOMIC --- 1st Place High School- \$150 from ATOMIC, Plaque, \$500 from People's United Bank
- * Barnes Aerospace Applied Technology Awards --- 1st Place High School - \$500 and Plaque, Medallion
- * Xerox Computer Science Awards --- 1st Place High School - \$400, Plaque, Medallion
- * Intel Excellence in Computer Science Award --- \$200 & certificate
- * IEEE, Connecticut Section --- \$250 Honors Award -Senior
- * Skills21 at EDUCATION CONNECTION --- \$100 For innovative use of technology to advance science or engineering
- * Zepke Award --- \$200 - For the Best Use of Electronic Circuitry
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Mathematics
- * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

Fairfield Fairfield College Preparatory School Mrs. Kiel

6058 On Analyzing Modern Quantum Computation

Student(s) Junlin Mo **Grade 11** **Town** Bridgeport

- * People's United Bank Mathematics Awards - with ATOMIC --- 3rd Place High School - Plaque, \$200 from People's United Bank

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

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

Fishers Island Fishers Island School Mrs. Carol Giles

3013 Assessing the Efficiency and Ecological Impact of Various Anti-fouling Methods

Student(s) Elias Kane **Grade** 12 **Town** Groton

- * Environmental Sciences Awards with CACIWC --- 2nd Place HS- \$500, Plaque, CACIWC gifts, Trip to Compete GENIUS Olympiad, Oswego, NY
- * 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
- * Project Oceanology --- Individual - Book + 2 tickets, First Place Senior, check for \$100, t-shirt

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

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

Glastonbury Smith Middle School Mary Coburn

5526 Li-Fi: How bright should LEDs be to accurately transmit data?

Student(s) Arjun Ahilan **Grade** 8 **Town** Glastonbury

- * 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
- * Society of Women Engineers - Hartford Section --- Scientific Calculator

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

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

[SchTown] [School] [Teacher]
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Greenwich Brunswick School Dana Montanez

6511 Soil Remediation: Removing Contaminants by Means of Thermal Desorption Followed by Remineralization Through Addition of Organic Material

Student(s) **Andrew Mellert** **Grade 11** **Town** Greenwich
William Gorman **Grade 11** **Town** Bedford

- * Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award
- * Energize CT/eesmarks Future Sustainability Awards --- 3rd Place High School - \$300 Cash and Trophy

Greenwich Brunswick School Dana Montanez

6037 Optimizing Efficiency of Urban,Track-based Rapid Transit Systems

Student(s) **Wesley Peisch** **Grade 10** **Town** Greenwich

- * People's United Bank Mathematics Awards - with ATOMIC --- 2nd Place High School- \$100 from ATOMIC, Plaque, \$300 from People's United Bank
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- * Barker Mohandas Awards for Transportation Research --- \$200 Cash & Plaque for Excellence in Transportation Related Research- High School

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

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

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

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/eesmarks Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award

[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

Greenwich Greenwich High School Andy Bramante

3085 Delivery of Docetaxel via a Modified PEGylated Graphene Oxide Carrier to Inhibit Growth of Prostate Cancer Stem Cells

Student(s) **Henry Dowling** **Grade 11** **Town** Riverside

* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award

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

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

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 certificate1

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

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

[SchTown] [School] [Teacher]
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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

Greenwich Greenwich High School Andrew Bramante

3081 The Effect Of Common Cold and Flu Medications on Gut Bacteria

Student(s) Rahul Subramaniam **Grade** 9 **Town** Cos Cob

- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award

Greenwich Greenwich High School Andrew Bramante

3033 Open-Wound Administration of Coagulant and Antibacterial Therapeutics via CaCO₃ Microparticle Self-propulsion

Student(s) Michelle Woo **Grade** 10 **Town** Riverside

- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist- Life Sciences - Medallion and Acrylic Award
- * Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering

Greenwich Greenwich High School Andrew Bramante

3110 Oral delivery of insulin therapy via low cost, pH sensitive hydrogels

Student(s) Michelle Xiong **Grade** 10 **Town** Riverside

- * Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- \$100 & plaque

Greenwich Greenwich High School Mr. Andrew Bramante

3029 Development of a Portable, Tattoo-Based Biosensor for the Non-Invasive, Low-Cost Diagnosis of Atherosclerosis via Iontophoresis of Macrophage-Targeting Silver Nanoparticles

Student(s) William Yin **Grade** 11 **Town** Riverside

- * Alexion Biotechnology Awards --- 1st Place- Biotechnology Senior High- Trip to compete at Intel ISEF, \$1000 & plaque,
- * Biophysical Society --- Biophysics Award- \$100

Greenwich Greenwich High School Andrew Bramante

6015 Self-Sustaining Biosynthesis of Methane from CO₂ 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

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

[SchTown] [School] [Teacher]
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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

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

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

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

Hamden Hamden Middle School Michelle DeLucia

2542 Effect of Pollutants on Aquatic Life

Student(s) **Ella Bradford** **Grade 8** **Town** Hamden

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award
- * NASA EARTH System Science Award --- Certificate and \$50 gift card given by CSEF

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

Hamden Sacred Heart Academy Mrs. Pam Brownell

6067 Is Oobleck the Key to Solving Beach Erosion?

Student(s) **Ashley Amarante** **Grade 10** **Town** Wallingford

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Connecticut Association for the Gifted --- Leonardo Davinci Award 9-12 Grade \$50 Gift Certificate

Hamden Sacred Heart Academy Mrs. Susan Nelson

3030 Using the Physiological Energetics Model to Study the Effects of Contaminating Microscopic Plastic Particles on Blue Mussel, Mytilus edulis

Student(s) **Catherine Herrick** **Grade 9** **Town** Sandy Hook

- * Environmental Sciences Awards with CACIWC --- 3rd Place HS- \$100, Plaque, CACIWC gifts

[SchTown] [School] [Teacher]
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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

Hamden Sacred Heart Academy Mrs. Pamela Brownell

6076 A Practical Use of the MFC Partial Air Cathode: Improving Performance by Implementing a New Design for Applications in a Conventional Septic System

Student(s) **Elizabeth LoPreiato** **Grade** 11 **Town** Berlin

- * Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- * Society of Women Engineers - Hartford Section --- Scientific Calculator

Hamden Sacred Heart Academy Dr. Elizabeth Christophy

6027 Examination of Different Wet Scrubber Sorbents in Reducing Acid Rain Production and Removing Solid Pollutants

Student(s) **Laura Mocchiola** **Grade** 10 **Town** Shelton

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- * U.S. Metric Association --- Certificate & \$50 gift card to Amazon given by CSEF
- * TurnKey Compliance Solutions Environmental Awards --- \$300 Cash Award High School- For excellence in environmental sciences

Hamden Sacred Heart Academy Mrs. Brownell

6083 Is There Tin in My Fish?

Student(s) **Audrey Seyfried** **Grade** 10 **Town** Milford

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

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

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

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

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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"

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

Hebron RHAM Middle School Bob Clarke

2522 Computer simulation if segregating students by classroom during lunch time during a viral outbreak will reduce the length of the viral outbreak and the number of students infected.

Student(s) **Isabelle Benson Clarke** **Grade 8** **Town** Marlborough

- * People's United Bank Mathematics Awards - with ATOMIC --- 3rd Place Middle School - Trophy , \$100 from People's United Bank
- * Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- MS Life Sciences- \$150 / plaque
- * Xerox Computer Science Awards --- 3rd Place Middle School- \$100, Trophy, Medallion
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$500 & trophy and Invitation Compete in Broadcom MASTERS
- * Leask/Francoeur Family Awards --- 1st Place Middle School- For innovation electrical engineering or computer science - \$200 cash

[SchTown] [School] [Teacher]
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Madison Daniel Hand High School Madhuparna Roychoudhury

6053 A practical method for CO2 capture by recovering dissolved CO2 in ocean water.

Student(s) **Ankita Roychoudhury** **Grade** 11 **Town** Madison

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- * Yale Science & Engineering Association, Inc. --- Certificate, \$50 gift card to Amazon given by CSEF
- * University of Connecticut - Physics Department --- UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificat
- * Greenwich Shellfish Commission Marine Ecology Awards --- High School Award for Excellence in Marine Ecology Award- Ocean Camp at Project Oceanology

Meriden ACES Thomas Edison Middle School Susan Dalo

5503 Tracking storage capacity on media discs

Student(s) **Kaitlyn Newman** **Grade** 8 **Town** Middletown

- * People's United Bank Mathematics Awards - with ATOMIC --- Middle School Finalist - Medallion & Arcylic Award

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

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

New Haven Engineering Science University Magnet School Mr. Rushworth

5002 Does Distance From a Nuclear Power Plant a Affect Plant Growth?

Student(s) **Eva Heaphy** **Grade** 7 **Town** New Haven

- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist- Physical Sciences - Medallion and Acrylic Award
- * Association for Women Geoscientists --- Certificate & \$50 gift card to Amazon given by CSEF
- * Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School, Physical Sciences

New Haven Engineering Science University Magnet School Roger Rushworth

3084 How do varying kinds of enzymes effect the efficiency of enzymatic hydrolysis on lignocellulic material to produce cellulosic ethanol through fermentation

Student(s) **Sumanth Kondapalli** **Grade** 9 **Town** Milford

- * CASE Urban School Challenge Awards with Travelers --- 5th Place High School - Plaque, Medallion
- * Energize CT/eesmarts Future Sustainability Awards --- 2nd Place High School - \$500 Cash and Plaque, Trip to Compete at GENIUS Olympiad, Oswego, NY

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

New Haven Engineering Science University Magnet School Heather Toothaker

3016 An Evaluation of the Accuracy of an Advanced Nanoribbon Microfluidic System to Measure Cytokine Concentration

Student(s) Lauren Low **Grade** 11 **Town** Hamden

- * CASE Urban School Challenge Awards with Travelers --- Senior High Finalist - Medallion and acrylic award
- * Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash

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

New Haven Engineering Science University Magnet School Roger Rushworth

5552 Is it Eco-Friendly?

Student(s) James Rodrigues **Grade** 8 **Town** Milford

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

New Haven Hill Regional Career High School Mr Dimoulas

6526 Eco Friendly Batteries

Student(s) Mike Olivares **Grade** 9 **Town** New Haven
Rich Tran **Grade** 9 **Town** East Haven

- * Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award

New Haven Wilbur Cross High School Caroline Dahm

3045 Polyetherketoneketone (PEKK) Surgical Implant: An alternative cure for Internal Coxa Saltans in Female Adolescents

Student(s) Sophie Edelstein **Grade** 9 **Town** New Haven

- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- HS Life Sciences- \$500 / plaque
- * CSEF Board of Directors Award to Compete at International Science & Engineering Fair --- CT Science & Engineering Fair Board of Directors Award to Compete at International Science & Engineering Fair
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate
- * John S. Kendall Memorial Awards --- \$500 John S. Kendall Award for Excellence In Mechanical Engineering - High School

New Haven Wilbur Cross High School Caroline Dahm

6038 Exploring conditions for Struvite precipitation and crystal growth.

Student(s) Maya Geradi **Grade** 10 **Town** New Haven

- * CASE Urban School Challenge Awards with Travelers --- 1st Place High School - \$500 and Plaque, Medallion and trip to compete at Intel Int. Sci. & Eng. Fair
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Energize CT/eesmarts Future Sustainability Awards --- 1st Place High School - \$800 Cash, Plaque, and Trip to Compete I-SWEEEP, Houston
- * Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash
- * 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 Sustainability
- * CSF Board of Directors Award --- certificate and \$50 Amazon gift card given by CSF

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

New Haven Worthington Hooker School Douglas Jones

5017 Hot Plop Fizz. Hotter Plop fizz. Hottest Plop Fizz

Student(s) **Catalina Homann** **Grade 7** **Town** New Haven

* CASE Urban School Challenge Awards with Travelers --- Middle School Finalist - Medallion and acrylic award

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

New Haven Worthington Hooker School Douglas Jones

4004 Salty Electrons

Student(s) **Juliette Ranelli** **Grade 8** **Town** New Haven

Mei Han **Grade 8** **Town** New Haven

* CASE Urban School Challenge Awards with Travelers --- Middle School Finalist - Medallion and acrylic award

New Haven Worthington Hooker School Mr. Jones

2056 Plants: Natures stabilizer

Student(s) **Sadie Turner** **Grade 7** **Town** New Haven

* Alexion Biotechnology Awards --- 5th Place- Biotechnology 7th grade- trophy

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

New London Science and Technology Magnet HS Charles Mulligan

6513 Electromagnetism as an alternate source of power?

Student(s) **Nathaniel Bland** **Grade 10** **Town** New London

Ethan Barnes **Grade 10** **Town** New London

* CASE Urban School Challenge Awards with Travelers --- Senior High Finalist - Medallion and acrylic award

New London Science and Technology Magnet HS Mr. Mulligan

6506 Using Heat Sinks In Integrated Photovoltaic Systems To Enhance Hydrogen Production Through Electrolysis

Student(s) **John Burnett** **Grade 10** **Town** Ledyard

Austin Huang **Grade 10** **Town** Uncasville

* CASE Urban School Challenge Awards with Travelers --- Senior High Finalist - Medallion and acrylic award

* Alternative/Renewable Energy Awards --- 2nd Place High School - \$500 Cash and Plaque, Trip to Compete GENIUS Olympiad, Oswego, NY

* Constellation, an Exelon Company --- 2nd: \$100.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy

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

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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

Newtown St. Rose of Lima School Mrs. Marde Dimon

5007 THE EFFECT OF REFLECTIVE LIGHT ON SOLAR ENERGY PRODUCTION

Student(s) Peyton McKenzie **Grade** 7 **Town** Newtown

* Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award

Newtown St. Rose of Lima School Mrs. Dimon

5534 Construct and build a working turntable.

Student(s) Marianella Salinas **Grade** 8 **Town** Newtown

* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist- Physical Sciences - Medallion and Acrylic Award

Newtown St. Rose of Lima School Mrs. Dimon

2013 the effect of different fertilizers on grass

Student(s) Madelaine Simms **Grade** 7 **Town** Newtown

* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist- Life Sciences - Medallion and Acrylic Award

North Haven North Haven Middle School Susan Jasinski

2033 Developing a low-cost Green Algae Photobioreactor

Student(s) Luke Barrett **Grade** 7 **Town** North Haven

* Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion & Acrylic Award
* American Meteorological Society --- Certificate & \$50 Amazon gift card given by CSEF
* Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

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

North Haven North Haven Middle School Susan Jasinski

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

Student(s) Laekhram Singh **Grade** 8 **Town** North Haven

Brijesh Vyas **Grade** 8 **Town** North Haven

* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Science sJr 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

[SchTown] [School] [Teacher]
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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

Orange Amity Reg Middle School, Orange Campus Mr. Foley/Dahn

5504 Non-Newtonian Fluid Headgear to Prevent or Reduce Concussions

Student(s) Henry Westgard **Grade** 8 **Town** Orange

* Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
* Alexion Biotechnology Awards --- 3rd Place- Biotechnology 8th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS
* American Society of Safety Engineers, CT Valley Chapter --- \$100 grade 7-8 project

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

Plantsville 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

Plantsville J.F. Kennedy Middle School Mrs. Pepin

2513 Less is More: A test of minimal amount of water to grow a crop

Student(s) Matthew Maciejewski **Grade** 8 **Town** Southington

* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
* Alexion Biotechnology Awards --- 4th Place- Biotechnology 8th grade- trophy and Invitation Compete in Broadcom MASTERS

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

Redding CT STEM FAIR Ms. Deborah Day

6014 Succession Variations in Kenyan Scavenger Communities and the Importance of Wildebeest Carcasses

Student(s) Katherine Handler **Grade** 11 **Town** Woodbridge

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

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]

Redding Joel Barlow High School Dr. Katherine Nuzzo

6505 A Novel Procedural Method for the Preparation of Photovoltaic Perovskite Solar Cells

Student(s) **Maxwell Matejka** **Grade** 11 **Town** Easton
Branden Fernandes **Grade** 11 **Town** Easton

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

Redding Joel Barlow High School Dr. Katherine Nuzzo

3090 The Rate of Calcification of Crassostrea Virginica as Calcium Carbonate Levels are Increased

Student(s) **Tatiana Naclerio** **Grade** 11 **Town** Easton

* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
* Mu Alpha Theta --- Certificate, \$50 gift card to Amazon given by CSEF

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

Redding Joel Barlow High School Dr. Katherine Nuzzo

6074 Novel Use of Carbonic Anhydrase for Sequestration of Soil Respiration

Student(s) **Grant Worthington** **Grade** 11 **Town** Easton

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

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

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

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

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

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

2502 Heavy Metal Adsorption Capability Of Pumice

Student(s) **Betul Agirman** **Grade 8** **Town** Southington

- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist- Life Sciences - Medallion and Acrylic Award
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award

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 & teshirt
- * Dreams Unlimited Award --- \$100 Cash Award + Certificate

Southington J.A. DePaolo Middle School Ms. Shea

4034 Are Southington Ponds Safe? Or not Safe?

Student(s) **Brianna Pearson** **Grade 7** **Town** Southington
Morgan Perschy **Grade 7** **Town** Southington

- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash

Stamford Beacon School John Henderson

6077 Providing a Design Suggesting the Viability of IHTP Thrusters for Commercial Use

Student(s) **Thomas Cortellesi** **Grade 11** **Town** Darien

- * Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- * Astronomical Society of Greater Hartford --- Senior Project-\$150, subscription to Sky and Telescope magazine and ASGH meeting invitation

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

Stratford St. Mark School Ms. Stacy Xanthos

2020 Mud Power

Student(s) **Liam Millott** **Grade 7** **Town** Milford

- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology 7th grade- trophy

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

[SchTown] [School] [Teacher]
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Suffield Suffield High School Mitch Charkiewicz

3024 An Application To Efficiently Take Notes Reliably For Full Student Engagement in a Teacher's Lecture

Student(s) Madison D'Ostuni **Grade** 11 **Town** Suffield

* Xerox Computer Science Awards --- Senior High Finalist - Medallion, Acrylic Award

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-SWEEEP, 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

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

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

Trumbull Christian Heritage School Daniel Cote

6047 Self-regulated LED Dimming System for Reduction of Eyestrain and Energy Consuming

Student(s) Xuezheng Wu **Grade** 11 **Town** Orange

- * Barnes Aerospace Applied Technology Awards --- 3rd Place High School - \$ 200 and Plaque, Medallion
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Engineering: Electrical

Trumbull St. Joseph High School Patrick Pardee

6024 Quantification of Pollutants Produced by Combustion of Synthetic Versus Fossil Fuels

Student(s) Kara Cloud **Grade** 11 **Town** Bridgeport

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

[SchTown] [School] [Teacher]
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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

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

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

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

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

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]
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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"

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

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

Windsor Academy of Aerospace and Engineering Dr. Lili Aramli

3067 Improvements in Chemotherapy: The Implementation of HSP90 Inhibitors in the Suppression of Chemoresistance

Student(s) Leon Novak **Grade 12** **Town** Rocky Hill

- * CASE Urban School Challenge Awards with Travelers --- Senior High Finalist - Medallion and acrylic award
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate

Windsor Academy of Aerospace and Engineering Dr. Lili Aramli

3042 An Electronic Neural Model of the Patellar Reflex Arc

Student(s) Joshua Snyder **Grade 11** **Town** Ivoryton

- * CASE Urban School Challenge Awards with Travelers --- 2nd Place High School - \$400 and Plaque, Medallion
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology Senior High- \$200 & plaque
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * John B. Trevor Award in Electrical Engineering --- \$500 cash award for an innovative electronic or electrical project

Windsor Madina Academy Muhammad Abubakar

4028 Investigating novel methods of generating electricity by using a Fibonacci wind-turbine with piezoelectric generators versus a regular wind-turbine with piezoelectric-generators

Student(s) Ibrahim Moghul **Grade 8** **Town** Bloomfield

Yaman Zoghol **Grade 7** **Town** Enfield

Ahmad Mohammed **Grade 7** **Town** Windsor

- * 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

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Windsor Madina Academy Muhammad Abubakar

6510 Designing and Constructing an Underwater Turbine with a Self-Functioning Water Desalination System Simulating the Conditions of the Long Island Sound

Student(s) **Maryam Moghul** **Grade 9** **Town** Bloomfield
Alina Mohammed **Grade 9** **Town** Windsor

* Energize CT/eemarks Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award

Windsor St. Gabriel School Margaret Rosa

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

Student(s) **Benjamin Clark** **Grade 8** **Town** Windsor
Alma Clark **Grade 8** **Town** 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

Windsor St. Gabriel School Mrs. Rosa

4021 What shapes your Chute?

Student(s) **Kennedy Tor** **Grade 8** **Town** Windsor
Sean Glick **Grade 8** **Town** 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

Woodbridge Amity Regional High School Deborah Day

3003 Polymorphism in Mertk associated with Multiple Sclerosis

Student(s) **Agrani Dixit** **Grade 10** **Town** Woodbridge

* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award

Woodbridge Amity Regional High School Deborah Day

3506 The Effect of Oniscus asellus Activity and Associated Decomposition on Soil Composition and Plant Growth

Student(s) **Haseeb Khan** **Grade 12** **Town** Orange
Barak Davidi **Grade 12** **Town** Woodbridge

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

Woodbridge Amity Regional High School Deborah Day

6501 Creating a Mobile School Navigation App

Student(s) **Vince Li** **Grade 10** **Town** Orange
David Wang **Grade 12** **Town** Bethany

* Xerox Computer Science Awards --- 2nd Place High School - \$300, Plaque, Medallion

* 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

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

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

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

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