



# Connecticut Science & Engineering Fair

## Quinnipiac University

### March 12 - 17, 2018

### Winning Projects

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

#### Awards Legend

Honors = 1st, 2nd, 3rd place ribbons (1st honors are CSEF Finalists)

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Avon	Avon High School	Mrs. Andrea Galuska	3536	LST	2	MyMedWallet: Personalized Medical Organizer App		
		<b>Student(s)</b>						
		Jaya Hari					Grade 10	Town Avon
		Dheepa Hari					Grade 10	Town Avon
Avon	Talcott Mountain Academy	Mr. Meredith	5030	P7	3	Black Holes - The Insatiable Hunger		
		<b>Student(s)</b>						
		Alexandros Cooke-Politikos					Grade 7	Town Avon
		* Astronomical Society of Greater Hartford --- Junior Project-\$100, subscription to Sky and Telescope magazine and ASGH meeting invitation						
Avon	Talcott Mountain Academy	John Lombardo	5542	P8	3	Acoustic Anomaly Detector		
		<b>Student(s)</b>						
		Brendan Glastris					Grade 8	Town Burlington
		* Barnes Aerospace Applied Technology Awards --- 2nd Place Middle School - \$200 and Trophy, Medallion * Computer Science Awards --- Middle School Finalist - Medallion * Connecticut Academy of Audiology --- \$150 Award MS- For Excellence in Audiology and Acoustics, opport. to shadow an audiologist						
Avon	Talcott Mountain Academy	Dr. Brigette Zacharczenko	2505	L8	2	Development of rapid test for Lyme bacteria in ticks		
		<b>Student(s)</b>						
		Julian Kage					Grade 8	Town Glastonbury
		* Alexion Biotechnology Awards --- 3rd Place- Biotechnology 8th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS						
Avon	Talcott Mountain Academy	Lydia Gibb	2516	L8	2	Got Your Back		
		<b>Student(s)</b>						
		Emma Ruccio					Grade 8	Town Southington
		* UTC Aerospace Systems Engineering Awards --- 3rd Place- Engineering MS \$100 & trophy and Invitation Compete in Broadcom MASTERS * Alexion Biotechnology Awards --- 2nd Place- Biotechnology 8th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS * Henderson Award --- Certificate and \$25 Amazon Gift Card given by CSF * Robotics And Beyond Award for Excellence in Physics- High School and Engineering Design- Middle School --- Middle School- For Excellence in Engineering Design- \$200 for for Robotics And Beyond STEM Design Academy in July						
Avon	Talcott Mountain Academy	Mr Lombardo	5538	P8	3	MediTrack		
		<b>Student(s)</b>						
		Ari Starr					Grade 8	Town Avon

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Baltic** Sayles School Miss Roy  
 4018 PT 1 Black Light Experiment

**Student(s)** **Brendan Bezanson** **Grade 7** **Town** Sprague  
**Hunter Bittman** **Grade 7** **Town** Sprague

\* Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences MS Team- trophy, invite to compete  
 Broadcom MASTERS

**Baltic** Sayles School Miss Roy  
 1002 LT 2 Caffeine's Effect On Plant Growth

**Student(s)** **Abigail Staggs** **Grade 8** **Town** Baltic  
**Ashlyn Bill** **Grade 8** **Town** Baltic

**Baltic** Sayles School Chelsea Roy  
 5559 P8 3 Can You Blame the Burnt Cookies on the Pan?

**Student(s)** **Emily Topalis** **Grade 8** **Town** Baltic

**Bethany** Amity Reg Middle School - Bethany Campus Kevin Berean  
 5546 P8 1 The Portable Linux Terminal

**Student(s)** **Sandra Correya** **Grade 8** **Town** Bethany

\* Lockheed Martin Physical Sciences Awards --- 5th Place- Physical Sciences 8th Grade Ind. - trophy

**Bethany** Amity Reg Middle School - Bethany Campus Kevin Berean  
 5534 P8 3 The Rolling Cane

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

\* Barnes Aerospace Applied Technology Awards --- 3rd Place Middle School - \$100 and Trophy, Medallion  
 \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion  
 \* American Society of Safety Engineers, CT Valley Chapter --- \$100 grade 7-8 project

**Bethany** Amity Reg Middle School - Bethany Campus Kevin Berean  
 5548 P8 3 LightOff

**Student(s)** **Adam Florkiewicz** **Grade 8** **Town** Bethany

**Bethany** Amity Reg Middle School - Bethany Campus Kevin Berean  
 4015 PT 1 Preventing SIDS From Suffocation

**Student(s)** **Ellina Medovnikov** **Grade 8** **Town** Woodbridge  
**Audrey Marin** **Grade 8** **Town** Woodbridge

\* Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete  
 Broadcom MASTERS  
 \* Computer Science Awards --- 3rd Place Middle School- \$100, Trophy, Medallion  
 \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report  
 \* Spirit of Invention Award --- \$100 Cash and Plaque for Inventive Concepts

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Bethany	Amity Reg Middle School - Bethany Campus	Kevin Berean	5550	P8	1	Manual Tightening Prosthetic Hand		
					<b>Student(s)</b> Sage Paglia	<b>Grade</b> 8	<b>Town</b> Woodbridge	
* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion								
Bethany	Amity Reg Middle School - Bethany Campus	Kevin Berean	5524	P8	3	3D Printed Shoes for Comfort, Support & Performance		
					<b>Student(s)</b> Parker Paragas	<b>Grade</b> 8	<b>Town</b> Woodbridge	
Bethany	Amity Reg Middle School - Bethany Campus	Kevin Berean	5556	P8	1	3D Printed Dog Prosthetic		
					<b>Student(s)</b> Karli Scianna	<b>Grade</b> 8	<b>Town</b> Woodbridge	
* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion								
Bethany	Amity Reg Middle School - Bethany Campus	Kevin Berean	5528	P8	2	Mini Generator		
					<b>Student(s)</b> Harry Wyndorf	<b>Grade</b> 8	<b>Town</b> Woodbridge	
Bethel	Bethel High School	Mr. Turek	3046	LS	2	Deca-Pods		
					<b>Student(s)</b> Connor Brescia	<b>Grade</b> 12	<b>Town</b> Bethel	
Bethel	Bethel High School	Mr. Turek	6049	PS	3	Lowering SLS Costs with Preexisting Solid Rocket Boosters		
					<b>Student(s)</b> Ryan Lemone	<b>Grade</b> 10	<b>Town</b> Bethel	
* American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate								
Bethel	St. Mary School	Mrs. McDonald	2030	L7	3	Hot and Hard Headband		
					<b>Student(s)</b> Anna Kopec	<b>Grade</b> 7	<b>Town</b> Bethel	
* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion * U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate								
Bethel	St. Mary School	Kate McDonald	5025	P7	2	Reusable Hand Warmer Magic		
					<b>Student(s)</b> Kayla O'Marra	<b>Grade</b> 7	<b>Town</b> Bethel	
* Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Life Science								

# Conn. Science & Engineering Fair

## Winning Projects

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Bethel** St. Mary School Kate McDonald  
 5504 P8 3 Building an app  
**Student(s) Steven Reese** **Grade 8** **Town** Newtown

**Bethel** St. Mary School Kate McDonald  
 2506 L8 3 New Creature in the Sea.  
**Student(s) Magdalena Swierczek** **Grade 8** **Town** Danbury

\* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion  
 \* U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate

**Bethel** St. Mary School Kate McDonald  
 2526 L8 3 "Wifi - Harmless or Harmful"  
**Student(s) Oona Tuccinardi** **Grade 8** **Town** Bethel

**Bethel** St. Mary School Kate McDonald  
 2513 L8 2 The Effect of Digestion on Sugary Drinks  
**Student(s) Caroline Tucker** **Grade 8** **Town** Danbury

**Bozrah** Fields Memorial School Mrs. E. Brown  
 5027 P7 1 How Do Variables Impact The Amount of Energy Collected by a Wind Turbine  
**Student(s) Alanna Brady** **Grade 7** **Town** Bozrah

\* Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS  
 \* 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 --- 2nd Place- Middle School- \$200 / trophy  
 \* Energize CT/eesmarts Alternative/Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy  
 \* Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion  
 \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion  
 \* Association for Women Geoscientists --- Certificate & \$25 gift card to Amazon given by CSEF  
 \* Society of Women Engineers - Hartford Section --- Scientific Calculator  
 \* MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, middle school, \$100 cash award  
 \* Stanley Lessoff Award for Excellence In Analytical Technique --- \$100 Cash and Plaque

**Bozrah** Fields Memorial School Mrs. E. Brown  
 5541 P8 3 Water Temperature and Hurricane Prevention  
**Student(s) Elijah Ramthun** **Grade 8** **Town** Bozrah

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Bozrah** Fields Memorial School Mrs. E. Brown  
 5535 P8 2 Using Robotics for Investigating Underwater Habitats

**Student(s)** Morgan Tainter **Grade 8** **Town** Gilman

- \* People's United Bank Mathematics Awards - with ATOMIC --- Middle School Finalist - Medallion
- \* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- \* Computer Science Awards --- Middle School Finalist - Medallion
- \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- \* Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash
- \* Barker Mohandas Awards for Transportation Research --- \$100 Cash & Plaque for Excellence in Transportation Related Research- Middle School
- \* Leask/Francoeur Family Awards --- 1st Place Middle School- For innovation electrical engineering or computer science - \$200 cash
- \* Dreams Unlimited Award --- \$100 Cash Award + Certificate

**Bozrah** Fields Memorial School Mrs. E. Brown  
 2024 L7 2 Do different species of tree's growth patterns vary when looking at their growth rings?

**Student(s)** Norah Tracy **Grade 7** **Town** Bozrah

- \* Alexion Biotechnology Awards --- 4th Place- Biotechnology 7th grade- trophy and Invitation Compete in Broadcom MASTERS
- \* Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Phys Science
- \* Yale Peabody Museum --- One-Year Family Membership to the Yale Peabody Museum
- \* Banning Family Life Science Award --- For excellence in invasive species research, \$100 cash
- \* Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash

**Bridgeport** Bassick High School Elecy Varghese  
 3537 LST 3 Human Brain - Testing Musical Notes

**Student(s)** Topacio Reyes **Grade 9** **Town** Bridgeport  
 Itzel Sanchez **Grade 9** **Town** Bridgeport

**Bridgeport** Blackham School Patricia Wrenn  
 4022 PT 2 Brilliant Bulbs

**Student(s)** Jaden Jones **Grade 8** **Town** Bridgeport  
 Michael Molina **Grade 8** **Town** Bridgeport

**Bridgeport** Blackham School Patricia Wrenn  
 1007 LT 2 Strawberries and DNA

**Student(s)** Daniel Tarazona **Grade 7** **Town** Bridgeport  
 Normiana Manzano **Grade 7** **Town** Bridgeport

**Bridgeport** Bridgeport Military Academy Mr. Arun Kadam  
 3010 LS 2 Teen Generations:Stress Levels and Its Sources

**Student(s)** Dafne Hernandez **Grade 10** **Town** Bridgeport

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle

3051	LS	2	Regulation of Lemna minor Reactive Oxygen Species through Iodide and Tyrosine Antioxidant Treatments to Maximize Biofuel Yield
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**Student(s)** Alia Aguilar **Grade** 12 **Town** Monroe

- \* Energize CT/eesmarts Alternative/Renewable Energy Awards --- 3rd Place High School - \$200 Cash and Plaque
- \* Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Life Sciences

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle

3036	LS	2	Development of a Mucin Based Biomedical Adhesive Gel
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**Student(s)** Brian Duffy **Grade** 12 **Town** Fairfield

- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
- \* Otero Family Award --- The Otero Family Award; \$200 cash
- \* Biophysical Society --- Biophysics Award- \$100
- \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Biochemistry

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle

6004	PS	2	Investigation of Recycled Concrete Aggregate as a low-cost CO2 sequestration vehicle through Indirect Mineral Carbonation
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**Student(s)** Jinkuk Hong **Grade** 12 **Town** Shelton

- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- \* Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle

6023	PS	1	Development of a Portable, Kinetic Driven, Ozone Based Water Purification System for Application in Disaster Relief
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**Student(s)** Jamielyn Iquina **Grade** 12 **Town** Stratford

- \* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* Society of Women Engineers - Hartford Section --- Scientific Calculator

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle

6055	PS	2	Inhibiting the Formation of Methane Hydrates using Zeolite Minerals and Hydrophilic Polymers in Natural Gas Pipelines.
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**Student(s)** Danny Jagoe **Grade** 12 **Town** Fairfield

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle

6068	PS	3	The Utilization of Light Amplification by Stimulated Emission of Radiation in Amalgamating Free-Space Optical Communication and Wireless Power Transmission
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**Student(s)** Julia LaPenna **Grade** 12 **Town** Milford

- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- 5th Place High School - Plaque, Medallion

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle  
 3047 LS 3 Development of a Migration Model For *Morone saxatilis* Based on Thermal Shifts in Long Island Sound  
**Student(s)** Clayton McGoldrick **Grade** 12 **Town** Southport

\* Yale Peabody Museum --- One-Year Family Membership to the Yale Peabody Museum

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle  
 6021 PS 2 Synthesizing a Flexible, Conductive, and Biodegradable Polymer Matrix, Composed of Graphene and Chitin.  
**Student(s)** William Mergenthaler **Grade** 12 **Town** Southport

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle  
 6031 LS 1 Amplifying Heat Shock Protein Expression in *Glycine max* for cross protection against substandard growing conditions.  
**Student(s)** Evan O'Keefe **Grade** 12 **Town** Fairfield

\* Pfizer Life Sciences Awards --- 5th Place- Life Sciences Senior High- Plaque  
 \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Cell and Molecular Biology

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle  
 6074 PS 2 A Novel Heavy Metal Remediation Technique Utilizing a Photocatalyst Driven Graphene-Cupric Oxide Matrix  
**Student(s)** Catherine Odendahl **Grade** 12 **Town** Trumbull

\* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion  
 \* ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle  
 6030 PS 2 The Analysis of a Biochar Containment Boom as a Mitigation Technique for Relic Pollutants after Marine Dredging  
**Student(s)** Ethan Skuches **Grade** 12 **Town** Milford

\* CASE • PepsiCo Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion  
 \* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion  
 \* National Oceanic and Atmospheric Administration --- Certificate and medallion, ,and \$25 Amazon gift card given by CSEFF

**Bridgeport** Central High School Robert Pascarell  
 3054 LS 3 Are plants underrated heroes?  
**Student(s)** Alayjah Evans **Grade** 10 **Town** Bridgeport

**Bridgeport** Central High School Leeford Dufe  
 6092 PS 2 Salty Fuel Energy  
**Student(s)** Carlos Guzman **Grade** 9 **Town** Bridgeport

\* Energize CT/eesmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion



[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Bridgeport	Central High School	Mrs. Dritschler	6072	PS	3	Solar Travels		
		<b>Student(s)</b> Omed Hossaini					<b>Grade</b> 9	<b>Town</b> Bridgeport
Bridgeport	Classical Studies Magnet Academy	Mr. Feeney	2501	L8	2	Will H2O Win?!		
		<b>Student(s)</b> Yaelis Perez					<b>Grade</b> 8	<b>Town</b> Bridgeport
Bridgeport	Fairchild Wheeler Magnet High School	Ms.Veillette	3532	LST	2	The Effects of Mental Stress on Physical Health		
		<b>Student(s)</b> Alex Aquino					<b>Grade</b> 11	<b>Town</b> Bridgeport
		Erin McMurray					<b>Grade</b> 11	<b>Town</b> Fairfield
Bridgeport	Fairchild Wheeler Magnet High School	Keli Veillette	3009	LS	2	Comparing Biofilm Formation on Naturally Occurring Antimicrobial Nanostructures from Squalus acanthias, Cicadidae sp., and Nelumbo nucifera		
		<b>Student(s)</b> Mariam Dobosz					<b>Grade</b> 12	<b>Town</b> Shelton
								* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
Bridgeport	Fairchild Wheeler Magnet High School	Keli Veillette	6038	PS	3	Amount of Chlorine in Water, Compared to the Resulting Chloramine		
		<b>Student(s)</b> Mansi Kabre					<b>Grade</b> 9	<b>Town</b> Trumbull
Bridgeport	Fairchild Wheeler Magnet High School	Miss Veillette	3078	LS	3	How do emotions effect your blood glucose?		
		<b>Student(s)</b> Valerie Navas					<b>Grade</b> 11	<b>Town</b> Stratford
Bridgeport	Fairchild Wheeler Magnet High School	Mr. Koekkoek	6514	PST	2	Bartholomew's Vest		
		<b>Student(s)</b> Luca Pietrangeli					<b>Grade</b> 12	<b>Town</b> Trumbull
		Angus Foden					<b>Grade</b> 12	<b>Town</b> Trumbull
Bridgeport	Fairchild Wheeler Magnet High School	Paul Bergquist	6026	PS	3	Extinguishing fire with sound		
		<b>Student(s)</b> Kenny Pineda					<b>Grade</b> 10	<b>Town</b> Bridgeport
								* American Society of Safety Engineers, CT Valley Chapter --- \$150 grade 9-12 project
								* ISA - International Society for Automation - Ct. Valley Section --- 1st - \$125 award



[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>Bridgeport</b>	Fairchild Wheeler Magnet High School	Mrs. Veillette	6527	PST	2	Alkalosis and Acidosis: How Dieting Affects Abnormal pH Levels in the Human Body		
	<b>Student(s)</b>	<b>Citlalli Tomas</b>					<b>Grade 11</b>	<b>Town</b> Bridgeport
		<b>Musau Kalala</b>					<b>Grade 11</b>	<b>Town</b> Bridgeport

<b>Bridgeport</b>	Fairchild Wheeler Magnet High School	Keli Veillette	3506	LST	3	The Effects of Peppermint on Reaction Time and Performance		
	<b>Student(s)</b>	<b>Emma Turchuk</b>					<b>Grade 11</b>	<b>Town</b> Shelton
		<b>Fidel Gomez</b>					<b>Grade 11</b>	<b>Town</b> Bridgeport

<b>Bridgeport</b>	Fairchild Wheeler Magnet High School	Keli Veillette	3102	LS	2	Echinacea's Effect on Stress Induced Immunodeficiency in Crickets		
	<b>Student(s)</b>	<b>Olivia Wallon</b>					<b>Grade 12</b>	<b>Town</b> Shelton

\* Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- High School- \$150 / plaque

<b>Bridgeport</b>	Fairchild Wheeler Magnet High School	Keli Veillette	6507	PST	3	Inductive Power Line		
	<b>Student(s)</b>	<b>David Williams</b>					<b>Grade 12</b>	<b>Town</b> Bridgeport
		<b>Cynthia Demora</b>					<b>Grade 12</b>	<b>Town</b> Bridgeport

<b>Bridgeport</b>	Geraldine Claytor Magnet Academy	Logan Whitley	4026	PT	1	How does the type of cup affect how long the coffee will stay hot?		
	<b>Student(s)</b>	<b>Iris Rivera</b>					<b>Grade 7</b>	<b>Town</b> Bridgeport
		<b>Clementine Gnoto</b>					<b>Grade 7</b>	<b>Town</b> Bridgeport
		<b>Ahkiriah Johnson</b>					<b>Grade 7</b>	<b>Town</b> Bridgeport

\* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion

<b>Bridgeport</b>	John Winthrop School	Gregory Walsh	2524	L8	3	Gases and Beverages		
	<b>Student(s)</b>	<b>Isabelle Seara</b>					<b>Grade 8</b>	<b>Town</b> Bridgeport

<b>Bridgeport</b>	John Winthrop School	Susan Beres	2027	L7	2	How does Water Salinity Affect a Scallion's Growth		
	<b>Student(s)</b>	<b>Richard Zou</b>					<b>Grade 7</b>	<b>Town</b> Bridgeport

<b>Bridgeport</b>	Multicultural Magnet School	Corina Ciuflea	2532	L8	2	An Invisible Enemy That Kills		
	<b>Student(s)</b>	<b>John Paul Atehortua</b>					<b>Grade 8</b>	<b>Town</b> Bridgeport

\* Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, air pollution related

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Bridgeport	Multicultural Magnet School	Corina Ciuflea	2031	L7	1	To grow or not to grow		
					<b>Student(s)</b>	<b>Savannah Guzman</b>	<b>Grade 7</b>	<b>Town</b> Bridgeport
* Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS								
* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion								
Bridgeport	Park City Magnet School	Ms. Daria Collins	5552	P8	2	Wat(H)er Spin if Off		
					<b>Student(s)</b>	<b>Thu Do</b>	<b>Grade 8</b>	<b>Town</b> Bridgeport
* Energize CT/eesmarts Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion								
Bridgeport	Park City Prep Charter School	Vasiliki Boudreau	2511	L8	2	Organisms in an Ecosystem		
					<b>Student(s)</b>	<b>April Almeida</b>	<b>Grade 8</b>	<b>Town</b> Bridgeport
* Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion								
Bridgeport	Park City Prep Charter School	Mrs.Boudreau	5015	P7	3	The importance of ammonia in the formation of salt crystals		
					<b>Student(s)</b>	<b>Nathiyis Barros</b>	<b>Grade 7</b>	<b>Town</b> Bridgeport
Bridgeport	Park City Prep Charter School	Jonathan Jaekle	1012	LT	2	The Effects of Ocean Pollutants on Marine Organisms		
					<b>Student(s)</b>	<b>Jenifer Bonilla</b>	<b>Grade 8</b>	<b>Town</b> Bridgeport
						<b>Elysia Couvertier</b>	<b>Grade 8</b>	<b>Town</b> Bridgeport
Bridgeport	Park City Prep Charter School	Jonathan Jaekle	2011	L7	2	Can Plants Grow In Different Liquids?		
					<b>Student(s)</b>	<b>David Boudreau Jr</b>	<b>Grade 7</b>	<b>Town</b> Ansonia
Bridgeport	Park City Prep Charter School	Mrs. boureau	2002	L7	3	Does Practice Make Perfect?		
					<b>Student(s)</b>	<b>Emily Colon</b>	<b>Grade 7</b>	<b>Town</b> Bridgeport
Bridgeport	Park City Prep Charter School	Vasiliki Boudreau	5557	P8	3	The Novel Method Of Oil Spill clean up using biomasses		
					<b>Student(s)</b>	<b>Alyssa Hall</b>	<b>Grade 8</b>	<b>Town</b> Bridgeport
* CASE • PepsiCo Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion								
* Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF								

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Bridgeport	Park City Prep Charter School	Vicky Boudreau	2515	L8	3	Germes germ everywhere		
		<b>Student(s)</b> sanaa hatton					<b>Grade 8</b>	<b>Town</b> Bridgeport
bridgeport	Park City Prep Charter School	Mrs.Boudreau	2028	L7	3	The Force To Seperate		
		<b>Student(s)</b> Jeremiah Hernandez					<b>Grade 7</b>	<b>Town</b> Bridgeport
		* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion						
Bridgeport	Park City Prep Charter School	Mrs.Boudreau	1003	LT	3	5 Second Rule?		
		<b>Student(s)</b> Dianna Ismail					<b>Grade 7</b>	<b>Town</b> Bridgeport
		<b>Imrath Saboor</b>					<b>Grade 7</b>	<b>Town</b> Bridgeport
Bridgeport	Park City Prep Charter School	Mr. Jaekle	2536	L8	3	Seed Germination With Different Liquid		
		<b>Student(s)</b> Isabelle Patrick-Oliveira					<b>Grade 8</b>	<b>Town</b> Bridgeport
		* CASE • PepsiCo Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion						
Bridgeport	Roosevelt School	ms simon	4002	PT	3	magnetic top leitation		
		<b>Student(s)</b> Moeez Khawaja					<b>Grade 7</b>	<b>Town</b> Bridgeport
		<b>Jordan Boothe</b>					<b>Grade 7</b>	<b>Town</b> Bridgeport
		<b>Troy Holtzer</b>					<b>Grade 7</b>	<b>Town</b> bridgeport
Canton	Canton High School	Stephen Riley	6080	PS	2	Are Your Running Shoes Slowing You Down?		
		<b>Student(s)</b> Jane Frawley					<b>Grade 12</b>	<b>Town</b> Canton
Canton	Canton High School	Stephen Riley	6073	PS	2	Creating, Optimizing, and Testing a Mathematical Model of the Chemical Production of Biodiesel.		
		<b>Student(s)</b> Cole Marcuccio					<b>Grade 12</b>	<b>Town</b> Canton
Canton	Canton High School	Mr. Riley	6076	PS	3	Optimizing Hydraulics		
		<b>Student(s)</b> Aidan O'Donnell					<b>Grade 12</b>	<b>Town</b> Canton

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Cheshire** St. Bridget School Michelle Carroll  
 5033 P7 2 Staining Effects of Five Popular Beverages Using Eggshells to Represent Teeth  
**Student(s)** Juliana Janezic **Grade** 7 **Town** Southington

**Cheshire** St. Bridget School Mrs. Carroll  
 2537 L8 1 Transforming Trash Into Treasure: A Sustainable Approach To Oil Spill Cleanup  
**Student(s)** Kavin Kathir **Grade** 8 **Town** Cheshire

- \* Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 8th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- \* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- \* Future Sustainability Awards - Eversource /energizeCT --- 2nd Place Middle School - \$200 Cash and Trophy
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- \* Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF
- \* National Oceanic and Atmospheric Administration --- Certificate and medallion, ,and \$25 Amazon gift card given by CSEF
- \* Southeastern New England Marine Educators --- \$100 award and membership in SENEME - 1st Place Junior & T-Shirt
- \* Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related
- \* TurnKey Compliance Solutions Environmental Awards --- \$200 Cash Award Middle School- For excellence in environmental sciences

**Danbury** Danbury High School Binu Jacob  
 6088 PS 3 Crystal Woods  
**Student(s)** Aleena Jacob **Grade** 9 **Town** Danbury

**Danbury** Danbury High School Mr. LaRosa  
 6016 PS 2 Harvesting Wind From Urban Street Canyons Using a Double Helix Wind Turbine  
**Student(s)** Jeffrey Osborne **Grade** 10 **Town** Danbury

**Danbury** Immaculate High School Mrs. Bridget Henry  
 6008 PS 2 Effective Catalytic Conversion of Plastic Waste into Fuel  
**Student(s)** Elias Haddad **Grade** 9 **Town** Danbury

- \* Energize CT/eesmarts Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Plaque
- \* Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- \* MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, high school, \$100 cash award
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Alternative/Renewable Energy Project

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

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

5034	P7	1	The Efficiency of Different Types of Algae in Creating Self-Sustaining Microbial Fuel Cells
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**Student(s)** Max Coisman **Grade 7** **Town** Danbury

- \* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion
- \* Energize CT/eesmarts Alternative/Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- \* Future Sustainability Awards - Eversource /energizeCT --- 1st Place Middle School - \$300 Cash and Trophy
- \* Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & trophy and Invitation Compete in Broadcom MASTERS
- \* The Children's Museum --- 1 family 4-Pack of Admission Passes to the Children's Museum

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

5007	P7	2	What Materials In Homes Can Block Wi-Fi Signals?
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**Student(s)** Aiden Doolabh **Grade 7** **Town** Danbury

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

4004	PT	1	"Perpetual Motion" Or "Perpetual Failure"
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**Student(s)** Thomas Fanelli **Grade 7** **Town** Danbury  
 Daniel Goetz **Grade 7** **Town** Danbury

- \* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion

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

4025	PT	1	Wind vs Water
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**Student(s)** Anna Flaherty **Grade 8** **Town** New Fairfield  
 Arshei Flores **Grade 8** **Town** New Milford

- \* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion
- \* Energize CT/eesmarts Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion
- \* Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion
- \* Association for Women Geoscientists --- Certificate & \$25 gift card to Amazon given by CSEF
- \* Constellation, an Exelon Company --- 1st: \$100.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
- \* Frank J. Link Family Award for Energy Related Research --- Frank J. Link Award for Energy Related Research - \$50

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

1013	LT	1	Now you "C" it, now you don't
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**Student(s)** Mary Grace Fontana **Grade 7** **Town** Danbury  
 Sarina Steinerd **Grade 7** **Town** Danbury

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

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

5526	P8	3	Wifi? Why not?
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**Student(s)** Jennifer Hanley **Grade 8** **Town** Danbury

# Conn. Science & Engineering Fair

## Winning Projects

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>Danbury</b>	St. Gregory the Great School	Christine Fahey	4020	PT	3	Overpowering Radiation		
<b>Student(s)</b>					<b>William Murphy</b>	<b>Grade 8</b>	<b>Town</b>	Danbury
					<b>Joseph Falcao</b>	<b>Grade 8</b>	<b>Town</b>	Danbury

<b>Danbury</b>	St. Gregory the Great School	Christine Fahey	2514	L8	1	Bloom of Doom		
<b>Student(s)</b>					<b>Melanie Seaman</b>	<b>Grade 8</b>	<b>Town</b>	New Fairfield

- \* Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion
- \* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- \* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- \* Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash

<b>Danbury</b>	St. Joseph School	Jennifer Reilly	2021	L7	2	Color or Black and White? Which Evokes More Emotion		
<b>Student(s)</b>					<b>Emily Cruz</b>	<b>Grade 7</b>	<b>Town</b>	Danbury

<b>Danbury</b>	St. Joseph School	Mrs. Reilly	2529	L8	3	The Effects of Microwave Rays on Plants and Yeast		
<b>Student(s)</b>					<b>William Doran</b>	<b>Grade 8</b>	<b>Town</b>	Danbury

<b>Danbury</b>	St. Joseph School	Mrs. Reilly	5525	P8	3	Temperature and Magnets		
<b>Student(s)</b>					<b>Aidan Gage</b>	<b>Grade 8</b>	<b>Town</b>	Danbury

<b>Danbury</b>	St. Joseph School	Mrs. Reilly	2512	L8	2	Stunted Growth: How Do Cell phones Affect Plant Growth and Can Certain Materials Prevent It?		
<b>Student(s)</b>					<b>Bronwyn Hyland</b>	<b>Grade 8</b>	<b>Town</b>	New Fairfield

- \* Alexion Biotechnology Awards --- 5th Place- Biotechnology 8th grade- trophy
- \* American Society of Safety Engineers, CT Valley Chapter --- \$100 grade 7-8 project
- \* Sister Mary Christine Life Sciences Award --- \$100 for excellence in the life sciences by a catholic middle school project

<b>Danbury</b>	St. Joseph School	Jennifer Reilly	1001	LT	1	Growing, Growing, Gone! A Fertilizer Experiment		
<b>Student(s)</b>					<b>Christian Jeffers</b>	<b>Grade 7</b>	<b>Town</b>	Danbury
					<b>Georen Chirayil</b>	<b>Grade 7</b>	<b>Town</b>	Danbury

- \* Pfizer Life Sciences Awards --- 2nd Place- Life Sciences MS Team- \$100 each & trophy and Invite Compete Broadcom MASTERS

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Danbury** St. Joseph School Mrs. Jennifer Reilly  
 2531 L8 2 The Effects of X-ray Radiation on the Germination and Growth of Radish Plants.  
**Student(s)** **Conor O'Keefe** **Grade 8** **Town** Danbury

**Danbury** St. Joseph School Jennifer Reilly  
 1014 LT 1 Water you drinking?  
**Student(s)** **Talia Pereira** **Grade 7** **Town** Brookfield  
**Sadie Jarboe** **Grade 7** **Town** Danbury

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

**Danbury** Westside Middle School Academy Jonathan Neuhausel  
 5523 P8 1 Effect of Spiral Spacing on Conversion Efficiency of Horizontal Axis Spiral Wind Turbine  
**Student(s)** **Timothy Chen** **Grade 8** **Town** Danbury

\* Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS  
 \* UTC Aerospace Systems Engineering Awards --- 1st Place- Engineering Middle School- \$400 & trophy and Invitation Compete in Broadcom MASTERS

**Danbury** Westside Middle School Academy Jonathon Neuhausel  
 5527 P8 1 Stormwater Pollution: The Effectiveness of Zeolites in Decreasing Levels of Nitrate in Runoff  
**Student(s)** **Paloma Lenz** **Grade 8** **Town** Danbury

\* Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences 8th Grade Ind, - \$100 & trophy, invite to compete Broadcom MASTERS  
 \* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion  
 \* CASE • PepsiCo Urban School Challenge Awards with IBM --- 2nd Place Middle School - \$200 and Trophy, Medallion  
 \* Environmental Sciences Awards with CACIWC --- 2nd Place MS- \$200, Trophy, CACIWC gifts  
 \* UTC Aerospace Systems Engineering Awards --- 2nd Place- Engineering MS- \$200 & trophy and Invitation Compete in Broadcom MASTERS  
 \* Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$500 & trophy and Invitation Compete in Broadcom MASTERS  
 \* Association for Women Geoscientists --- Certificate, \$25 gift card to Amazon given by CSEF, possible advance to further competition

**Danbury** Westside Middle School Academy Jonathan Neuhausel  
 2525 L8 1 Impact of natural and chemical preservatives to extend the shelf life of apple cider.  
**Student(s)** **Mathew Mathew** **Grade 8** **Town** Danbury

\* Pfizer Life Sciences Awards --- 4th Place- Life Sciences 8th grade- trophy and Invitation Compete in Broadcom MASTERS  
 \* Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to dinner

**Danbury** Westside Middle School academy Jonathan Nuehausel  
 2510 L8 2 How can forest fires help soil regain their nutrition, and let the plant grow taller?  
**Student(s)** **Alex Morquecho** **Grade 8** **Town** Danbury

\* American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF  
 \* Connecticut Nurserymen's Foundation, Inc. --- \$200 Cash Award & paid registration to the CT Nursery and Landscape Summer Meeting



[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Danbury** Westside Middle School Academy Jonathan Neuhausel  
 5547 P8 1 Image Recognition to Diagnose Lyme Disease

**Student(s)** Khushi Parikh **Grade 8** **Town** Danbury

- \* Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & trophy, invite to compete Broadcom MASTERS
- \* People's United Bank Mathematics Awards - with ATOMIC --- 1st Place Middle School- \$150 from ATOMIC, and Trophy, \$300 from People's United Bank
- \* Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- Middle School \$300 / trophy
- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- 1st Place Middle School - \$300 and Trophy, Medallion
- \* Computer Science Awards --- 2nd Place Middle School - \$200, Trophy and Medallion
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- \* 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 Meeting
- \* Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- \* Urban School Challenge 1st Place Middle School Awards --- Highest Placing 8th grader- GENIUS-Olympiad Competition -\$500 travel stipend
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project
- \* Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

**Danbury** Westside Middle School Academy Jonathan Neuhausel  
 2530 L8 3 How does Bacteriophage Phi x 174 affect with E. coli differently than Bacteriophage MS2?

**Student(s)** Stephanie Queiroz **Grade 8** **Town** Danbury

- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

**Danbury** Westside Middle School Academy Jon Neuhausel  
 5028 P7 2 The Effect of Fin Surface Area on Rocket Rotation at Different Locations on the X, Y and Z Axes in Relation to its Launch Point, While in Flight

**Student(s)** Aidan Scott **Grade 7** **Town** Danbury

**Danbury** Westside Middle School Academy Jonathan Neuhausel  
 2504 L8 2 A Study on Angiosperm Xylem Based Sucrose Filtration Systems

**Student(s)** Vincent Trombetta **Grade 8** **Town** Danbury

- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- 5th Place Middle School - Trophy, Medallion
- \* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

**Danbury** Westside Middle School Academy Jonathan Neuhausel  
 5506 P8 2 The Effect of Barometric Pressure on the Speed of Wifi

**Student(s)** Stella Walker **Grade 8** **Town** Danbury

- \* J.A. Augustine Award --- \$100 for excellence in physical sciences

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Danielson** Ellis Tech - Green STEP Cassandra Green  
 3512 LST 3 Solar Powered Golf Cart  
**Student(s)** Dylan Bonneau **Grade** 10 **Town** Thompson  
 Aaron Breen **Grade** 10 **Town** Brooklyn  
 Michael Page **Grade** 10 **Town** Brooklyn

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

**Danielson** Ellis Tech - Green STEP Cassandra Green  
 3530 LST 2 Heated Soil: Does Soil Temperature Effect Plant Growth?  
 A Solar Greenhouse with Radiant Heat  
**Student(s)** Colby Loiselle **Grade** 10 **Town** Pomfret  
 Macory Merrill **Grade** 10 **Town** Danielson  
 Matthew Bellavance **Grade** 10 **Town** Moosup

\* Energize CT/eesmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion  
 \* Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion

**Darien** Darien High School David Lewis  
 6050 PS 3 Comparing Dissolved Oxygen (% and mg/L) between Mamaroneck bay and Darien harbor  
**Student(s)** Kellie Arevalo **Grade** 12 **Town** Darien

**Darien** Darien High School David Lewis  
 3535 LST 3 The Effect of pH on the Dissolved Oxygen Level in the Long Island Sound  
**Student(s)** Corinne Bevill **Grade** 12 **Town** Darien  
 Emily DeNunzio **Grade** 12 **Town** Darien

**Darien** Darien High School Christine Leventhal  
 3069 LS 2 Discovering the Pathogen Responsible for Gorgonian Wasting Syndrome on the Gorgonia ventalina sea fan  
**Student(s)** Onora Brown **Grade** 12 **Town** Darien

**Darien** Darien High School Dr. Friedemann Freund  
 6525 PST 3 Positive Holes as Early Indicators for Future Earthquakes  
**Student(s)** Emily Findlan **Grade** 12 **Town** Darien  
 Cheyenne Li **Grade** 12 **Town** Darien

**Darien** Darien High School Mr. Pratt  
 3076 LS 3 Effects of Bt Insecticides on the Mortality Rate of Juvenile Horseshoe Crab  
**Student(s)** John Goll **Grade** 12 **Town** Darien

\* NYUC Pony Club Equine Award --- \$100 Cash Award or excellence in equine studies

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Darien** Darien High School Christine Leventhal  
 3083 LS 2 Expression & Localization Mapping of PLEKHA7 & RNAi-Associated Proteins in HUVEC Cells  
**Student(s) Paul Hager** **Grade 12** **Town** Darien

**Darien** Darien High School David Lewis  
 3093 LS 2 Screening of Northeastern U.S. Bat Colonies for Pseudogymnoascus destructans, the Causative Agent of White Nose Syndrome  
**Student(s) Carson Halabi** **Grade 12** **Town** Darien

**Darien** Darien High School Christine Leventhal  
 3038 LS 2 Mean Platelet Volume as a Possible Diagnostic Marker for Myeloproliferative Neoplasm Disorders  
**Student(s) Tanmay Mehta** **Grade 12** **Town** Darien

**Darien** Darien High School David Lewis  
 6014 PS 1 Fast Point-based Raytracing with Sphere Bounding Volume Hierarchies  
**Student(s) Daniel Pfrommer** **Grade 12** **Town** Darien

- \* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* Computer Science Awards --- 1st Place High School - \$400, Plaque, Medallion
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- \* Intel Excellence in Computer Science Award --- \$200 & certificate

**Darien** Darien High School David Lewis  
 3088 LS 3 The Bioaccumulation of Methylmercury in Atlantic Silversides  
**Student(s) Alexandra Swift** **Grade 12** **Town** Darien

**Darien** Darien High School Christine Leventhal  
 3006 LS 3 Creation of a Screening Tool for Assessing Baseball Pitching Biomechanics  
**Student(s) Chris Vernal** **Grade 12** **Town** Darien

**East Hartford** St. Christopher School Dr. James Tanguay  
 2016 L7 2 Plants!  
**Student(s) Mary Poirier** **Grade 7** **Town** East Hartford

**East Hartford** St. Christopher School Dr. James Tanguay  
 5502 P8 3 What Causes Your Stains?  
**Student(s) Tatiana Rosario** **Grade 8** **Town** East Hartford

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**East Lyme** East Lyme High School Frederic Clark  
 3551 LST 3 Ants Under Pressure

<b>Student(s)</b>	<b>Jonathan Tan</b>	<b>Grade</b> 11	<b>Town</b> East Lyme
	<b>Eric Gu</b>	<b>Grade</b> 11	<b>Town</b> East Lyme
	<b>Connie Tang</b>	<b>Grade</b> 11	<b>Town</b> Salem

**East Lyme** East Lyme High School Frederic Clark  
 3543 LST 1 Investigation of Spatial Learning in Apteris Drosophila Melanogaster Using a Novel Behavioral Assay

<b>Student(s)</b>	<b>Andrew Zhang</b>	<b>Grade</b> 12	<b>Town</b> East Lyme
	<b>Mingfei Duan</b>	<b>Grade</b> 12	<b>Town</b> East Lyme
	<b>Alexa Stewart</b>	<b>Grade</b> 12	<b>Town</b> Niantic

\* Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High Team- \$500 (split) & Plaque

**Ellington** Ellington High School Liz Cole  
 6101 PS 2 A natural cooling system for the last mile of vaccine delivery

<b>Student(s)</b>	<b>Tina Ma</b>	<b>Grade</b> 11	<b>Town</b> Ellington
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- \* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- \* University of Hartford --- University of Hartford Scholarship- For Excellence in Engineering, Science or Mathematics \$26,000
- \* The Connecticut Technology Council Young Woman Innovation Award --- \$150 Cash Award for Technological Innovation
- \* Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a High School student, \$200 cash
- \* John S. Kendall Memorial Awards --- \$500 John S. Kendall Award for Excellence In Mechanical Engineering - High School

**Fairfield** Assumption Catholic School Laurie Strazza  
 4007 PT 3 The Nexu Helmet

<b>Student(s)</b>	<b>Joseph Grabowski</b>	<b>Grade</b> 8	<b>Town</b> Fairfield
	<b>Bronson Vo</b>	<b>Grade</b> 8	<b>Town</b> Bridgeport

\* Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion

**Fairfield** Assumption Catholic School Mrs. Strazza  
 2008 L7 1 Plants Jammin!

<b>Student(s)</b>	<b>Cadae Thomas</b>	<b>Grade</b> 7	<b>Town</b> Bridgeport
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\* Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion

**Fairfield** Fairfield College Preparatory School Mrs. Deborah Kiel  
 3026 LS 2 Low to Zero Cost Water Filtration Using Common Fungi

<b>Student(s)</b>	<b>Antonios Boudreau</b>	<b>Grade</b> 9	<b>Town</b> Ansonia
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[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>Fairfield</b>	Fairfield Ludlowe High School	Mr. Mirror	6083	PS	2	Options Pricing Models Using Machine Learning		
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**Student(s)** Srihita Mediboina **Grade** 12 **Town** Fairfield

- \* People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion
- \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Mathematics

<b>Fairfield</b>	St. Thomas Aquinas Catholic School	Philip Flynn	4014	PT	1	Desalination: A Clean Water Alternative		
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**Student(s)** Andrew Cimmino **Grade** 7 **Town** Fairfield  
 Joshua Dixon **Grade** 7 **Town** Bridgeport

- \* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion
- \* Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion
- \* National Oceanic and Atmospheric Administration --- Certificate and medallion, ,and \$25 Amazon gift card given by CSEF

<b>Fairfield</b>	St. Thomas Aquinas Catholic School	PhillipFlynn	5018	P7	2	Can a Magnet Clean Up An Oil Spill		
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**Student(s)** James Cunningham **Grade** 7 **Town** Fairfield

- \* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF

<b>Fairfield</b>	St. Thomas Aquinas Catholic School	Philip Flynn	1006	LT	3	What Whitens your Teeth the Best		
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**Student(s)** Kathryn Fitzgerald **Grade** 7 **Town** Fairfield  
 Elliana Gallagi **Grade** 7 **Town** Fairfield

- \* American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF

<b>Fairfield</b>	St. Thomas Aquinas Catholic School	Mr. Philip Flynn	5520	P8	2	Cosmetic Science: What Product Best Protects Lips		
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**Student(s)** Isabelle Morse **Grade** 8 **Town** Stratford

<b>Falls Village</b>	Lee H. Kellogg School	Joseph Markow	2527	L8	1	How Distance from Compost Affects Soil Nutrient Levels		
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**Student(s)** Avery Tripp **Grade** 8 **Town** Falls Village

- \* Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion
- \* Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion

<b>Falls Village</b>	Lee H. Kellogg School	Joseph Markow	5529	P8	2	Rust Never Sleeps		
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**Student(s)** Natalie Wadsworth **Grade** 8 **Town** Falls Village

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Fishers Island</b>	Fishers Island School	Carol Gilles	3012	LS	3	The Stimulation and Inhibition of the Capitata Peg Neuron A in Mosquitoes		
						<b>Student(s) Nicholas Oickle</b>	<b>Grade 11</b>	<b>Town Groton</b>
<b>Fishers Island</b>	Fishers Island School	Carol Gilles	6048	PS	3	Quantitative Analysis of the Susceptibility of Bacillus Subtilis, Chemical and Physical Protectants and the Denaturing of the Protectants from Harmful UVB Wavelengths of 320-290nm		
						<b>Student(s) Brooklyn Redo</b>	<b>Grade 12</b>	<b>Town Fishers Island</b>
<b>Fishers Island</b>	Fishers Island School	Carol Gilles	3061	LS	3	Prevalence of Invasive Green Crab and Asian Crabs on Fishers Island		
						<b>Student(s) Caroline Toldo</b>	<b>Grade 12</b>	<b>Town Fishers Island</b>
<b>Forestville</b>	St. Matthew School	Danielle Persichetti	2508	L8	2	Cleaning Coins		
						<b>Student(s) Ciara Collins</b>	<b>Grade 8</b>	<b>Town Bristol</b>
<b>Forestville</b>	St. Matthew School	Danielle Persichetti	2535	L8	3	How Pigments "Leaf" The Plant		
						<b>Student(s) Peyton Kindblom</b>	<b>Grade 8</b>	<b>Town Bristol</b>
<b>Forestville</b>	St. Matthew School	Danielle Persichetti	2025	L7	2	Read, Set, Grow		
						<b>Student(s) Malcolm Stratton</b>	<b>Grade 7</b>	<b>Town Plainville</b>
<b>Forestville</b>	St. Matthew School	Danielle Persichetti	2015	L7	2	A Plant's Favorite Color		
						<b>Student(s) Adam Zwolinski</b>	<b>Grade 7</b>	<b>Town Bristol</b>
<b>Glastonbury</b>	Glastonbury High School	Diane Pintavalle	3097	LS	2	Correspondence between the location of brain lesions and language behavior in aphasics: A voxel lesion symptom mapping study		
						<b>Student(s) Sameeksha Agrawal</b>	<b>Grade 12</b>	<b>Town Glastonbury</b>
<b>Glastonbury</b>	Glastonbury High School	Diane Pintavalle	6007	PS	2	Adsorption of Antimony Using Mesoporous Alumina: A Comparison to Arsenic		
						<b>Student(s) Dina Allam</b>	<b>Grade 11</b>	<b>Town Glastonbury</b>

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Glastonbury** Glastonbury High School Diane Pintavalle  
 3068 LS 3 Archaeological soil samples from Native grave sites may allow anthropologists to further understand northeastern Native American burial culture and ritual  
**Student(s) Fiona Jones** **Grade 12** **Town** Glastonbury

**Glastonbury** Glastonbury High School Diane Pintavalle  
 3033 LS 2 Localized Tkv Degradation Mechanism Maintains Germline Stem Cell and Gonialblast Populations in Drosophila Testes  
**Student(s) Sophia Ladyzhets** **Grade 12** **Town** Glastonbury

**Glastonbury** Glastonbury High School Diane Pintavalle  
 6063 PS 2 EFFECT OF MODIFYING THE STRUCTURE OF A KNOWN CONFORMATIONALLY RIGID CYCLIC TUNGSTEN BIS-ALKYNE COMPLEX ON BEHAVIOR AND FLEXIBILITY  
**Student(s) Rebecca Lee** **Grade 11** **Town** Glastonbury

**Glastonbury** Glastonbury High School Diane Pintavalle  
 3056 LS 2 ROLE OF MIR-433 IN OSTEOSARCOMA INITIATION, PROGRESSION, AND DRUG RESISTANCE  
**Student(s) Samarth Venkata Menta** **Grade 12** **Town** Glastonbury

**Glastonbury** Glastonbury High School Diane Pintavalle  
 3022 LS 3 THE DEFINITION OF THE MEDITERRANEAN DIET AND STANDARD MEANS TO MEASURE ADHERENCE  
**Student(s) Jayna Mikolaitis** **Grade 12** **Town** Glastonbury

**Glastonbury** Glastonbury High School Diane Pintavalle  
 6025 PS 1 Electronic Stethoscope System for Monitoring and Analyzing Bowel Sounds  
**Student(s) Abhi Mohnani** **Grade 11** **Town** Glastonbury

- \* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion
- \* Computer Science Awards --- Senior High Finalist - Medallion
- \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* Lunch with a Patent Attorney --- Lunch with a Patent Attorney
- \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Engineering: Electrical

**Glastonbury** Glastonbury High School Diane Pintavalle  
 3100 LS 3 NOVEL DRUG INHIBITORS AFFECT CONFIRMATION OF CANCER SUPPRESSOR USP7  
**Student(s) Dante Morgera** **Grade 12** **Town** South Glastonbury

**Glastonbury** Glastonbury High School Diane Pintavalle  
 3015 LS 2 INVESTIGATING THE EFFICACY OF SELENIUM AND MANGANESE FOR CONTROLLING PNEUMOCOCCAL INFECTIONS  
**Student(s) Athulya Narayanan** **Grade 11** **Town** Glastonbury



[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Glastonbury	Glastonbury High School	Diane Pintavalle	6078	PS	2	The Impact Of Methoxy On The Nucleophilicity Of Re(Pyridine-Oxazoline)(Co) <sub>3</sub> cl And Its Rate Of Co <sub>2</sub> Conversion		
			<b>Student(s)</b>		<b>Nicole Nguyen</b>	<b>Grade</b> 12		<b>Town</b> Glastonbury

Glastonbury	Glastonbury High School	Diane Pintavalle	3084	LS	3	MIRRORS AFFECTING HUMAN BEHAVIOR WITH RESPECT TO DIFFERENT PERSONALITY TYPES		
			<b>Student(s)</b>		<b>Amelia Packard</b>	<b>Grade</b> 12		<b>Town</b> Glastonbury

Glastonbury	Glastonbury High School	Diane Pintavalle	6022	PS	1	ENGINEERING AN ENZYME RESPONSIVE GENETIC DELIVERY VEHICLE		
			<b>Student(s)</b>		<b>Tushar Sondhi</b>	<b>Grade</b> 12		<b>Town</b> South Glastonbury

\* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion

Glastonbury	Glastonbury High School	Diane Pintavalle	6104	PS	2	Exploring the Variability of Light in the Nucleus of Galaxy NGC 4395		
			<b>Student(s)</b>		<b>Devin Wasilefsky</b>	<b>Grade</b> 11		<b>Town</b> South Glastonbury

Glastonbury	Smith Middle School	Mary Coburn	5024	P7	1	Cure For The Blues: A green, low cost adsorbent for removal of dye from aqueous solutions		
			<b>Student(s)</b>		<b>Anika Ahilan</b>	<b>Grade</b> 7		<b>Town</b> Glastonbury

- \* Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS
- \* Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- Middle Schools- \$100 / trophy
- \* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- \* Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt, First Place Junior
- \* Connecticut Science Supervisors Association --- \$125 for a middle school project
- \* Jon Stone Memorial Award --- \$150 cash for Innovative Engineering

Greens Farms	Greens Farms Academy	Nina Yuen	6053	PS	3	The Creation and Storage of Kinetic Energy through the Transportation of Water through a Hippo Roller		
			<b>Student(s)</b>		<b>Conner Calzone</b>	<b>Grade</b> 12		<b>Town</b> Norwalk

\* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2018 Invention Convention, April 28

Greens Farms	Greens Farms Academy	Nina Yuen	6027	PS	2	A piece of unique-shaped furniture that is able to sustain a lot of weight and send signals to the rescue team about # buried people and their location.		
			<b>Student(s)</b>		<b>Andrew Chen</b>	<b>Grade</b> 12		<b>Town</b> Norwalk

\* Ct Architecture Foundation Award - The William M. Mack, AIA Award --- \$250 Gift Certificate to Barnes and Noble from the Connecticut Architecture Foundation, William M. Mack, AIA Award.

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Greens Farms** Greens Farms Academy Joachim Kuhn  
 6015 PS 3 Combining digital interfaces with smart robots to easily make images in fields  
**Student(s) William King** **Grade 12** **Town Old Greenwich**

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

**Greens Farms** Greens Farms Academy Modupe Oshin  
 2534 L8 2 The Effect of Bacteriophage on E.coli Bacteria  
**Student(s) Kavya Krishnamurthy** **Grade 8** **Town Westport**

\* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

**Greens Farms** Greens Farms Academy Dr. Mathieu Freeman  
 6035 PS 2 Simulated Effects of Hydrophobic Coatings on Closed-Cycle Ocean Thermal Energy Conversion Systems  
**Student(s) Kevin Maldonado** **Grade 12** **Town Norwalk**

**Greens Farms** Greens Farms Academy Mrs. Oshin  
 5036 P7 1 The Traft  
**Student(s) William McGonagle** **Grade 7** **Town Southport**

\* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion

\* John B. Trevor Award in Electrical Engineering --- \$500 cash award for an innovative electronic or electrical project

**Greens Farms** Greens Farms Academy Dr. Mathieu Freeman  
 3016 LS 2 Finding and Comparing the Ethanol Yield of Connecticut Invasive Plant Species  
**Student(s) Grace McGonagle** **Grade 11** **Town Southport**

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

\* Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash

\* University of Connecticut - Physics Department --- UCONN Early College Experience Program: Frontier in Science-Co-Op \$100 Gift Certificate

**Greens Farms** Greens Farms Academy Nina Yuen  
 6075 PS 2 The use of Technology to limit out of bounds errors in sports by referees  
**Student(s) Sean Minson** **Grade 12** **Town Darien**

**Greens Farms** Greens Farms Academy Ms. Oshin  
 5039 P7 2 The Next Climbing Helmet  
**Student(s) Jamie Paterson** **Grade 7** **Town Stamford**

**Greens Farms** Greens Farms Academy Nina Yuen  
 6019 PS 3 Location Technology for the Blind  
**Student(s) Kendall Roche** **Grade 12** **Town Darien**

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Greens Farms** Greens Farms Academy Mrs. Oshin  
 2003 L7 3 App for Charities in Connecticut  
**Student(s)** Makda Tessema **Grade 7** **Town** Bridgeport

**Greenwich** Brunswick School Dana Montanez  
 3079 LS 2 Dimethylglycine: An Investigation on the Aerobic Capacity of Yeast  
**Student(s)** Logan Darrin **Grade 10** **Town** Greenwich

**Greenwich** Brunswick School Dana Montanez  
 3538 LST 2 Methylmercury Concentrations in Fish Tissue: A Further Analysis of Fish in the Long Island Sound vs. the Atlantic Ocean  
**Student(s)** AJ Delgado **Grade 11** **Town** Riverside  
 Ryan Mulshine **Grade 11** **Town** Greenwich

**Greenwich** Brunswick School Jarrett Shine  
 3515 LST 1 Improving Durability and Strength of Bombyx mori Silk by Fortifying Primary Food Source  
**Student(s)** Lucas Delgado **Grade 10** **Town** Riverside  
 Alexander Burdick **Grade 10** **Town** Riverside

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

**Greenwich** Brunswick School Dana Lee Montanez  
 3546 LST 1 A Lense to Explore Life on Other Planets: Using Targeted Genome Editing Technologies to Test Survival in Extraterrestrial Environments  
**Student(s)** Thomas Foley **Grade 11** **Town** Greenwich  
 Thomas Kimberlin **Grade 11** **Town** Greenwich

\* Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High Team- \$300 (split) & Plaque  
 \* The Jackson Laboratory --- \$500 - The Jackson Laboratory Award for Excellence in Genomics Related Research

**Greenwich** Brunswick School Dana Montanez  
 6503 PST 2 Utilization of Vertical Tidal Range to Generate and Store Electrical Current  
**Student(s)** William George **Grade 11** **Town** Greenwich  
 Harold Barringer **Grade 11** **Town** Greenwich

\* Barnes Aerospace Applied Technology Awards --- 1st Place High School - \$500 and Plaque, Medallion  
 \* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion  
 \* IEEE, Connecticut Section --- \$100 Honorable Mention

**Greenwich** Brunswick School Dana Montanez  
 6082 PS 2 Solar Geoengineering: The Capacity of Aerosols to Reflect Light and Reduce Temperature  
**Student(s)** Ryan Glanville **Grade 10** **Town** Greenwich

\* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>Greenwich</b>	Brunswick School	Dana Montanez	6532	PST	2	Examination of the Magnetic Levitation Wind Turbine and its Conventional Counterpart		
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<b>Student(s)</b>	<b>Peter Lehrman</b>	<b>Grade 10</b>	<b>Town</b>	Greenwich
	<b>Alexander Morgan</b>	<b>Grade 10</b>	<b>Town</b>	Greenwich

- \* Barnes Aerospace Applied Technology Awards --- 3rd Place High School - \$ 200 and Plaque, Medallion
- \* Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion

<b>Greenwich</b>	Brunswick School	Dana Montanez	3040	LS	2	A comparative analysis of the efficiencies of hydroponic and aeroponic systems		
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<b>Student(s)</b>	<b>William McLaren</b>	<b>Grade 10</b>	<b>Town</b>	Greenwich
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- \* Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card

<b>Greenwich</b>	Brunswick School	Dana Montanez	6045	PS	2	Perovskite v. Silicon Solar Panels: the Effect of Mirrored Light on Overall Efficiency		
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<b>Student(s)</b>	<b>Eric Meindl</b>	<b>Grade 10</b>	<b>Town</b>	Riverside
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<b>Greenwich</b>	Brunswick School	Dana Montanez	3049	LS	3	Use of Regression Analysis to Predict Future Outbreaks of Malaria		
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<b>Student(s)</b>	<b>Jamison Meindl</b>	<b>Grade 10</b>	<b>Town</b>	Riverside
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- \* People's United Bank Mathematics Awards - with ATOMIC --- 3rd Place High School - Plaque, \$200 from People's United Bank
- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- \* Computer Science Awards --- Senior High Finalist - Medallion
- \* Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- \* Mu Alpha Theta --- Certificate, \$25 Amazon gift card given by CSEF
- \* American Society for Quality - Thames Valley Section --- \$250 Cash Award
- \* Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum

<b>Greenwich</b>	Brunswick School	Dana Montanez	6001	PS	1	Diagnosing Knee Osteoarthritis using Artificial Neural Networks		
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<b>Student(s)</b>	<b>Matthew Pillari</b>	<b>Grade 11</b>	<b>Town</b>	Greenwich
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- \* Lockheed Martin Physical Sciences Awards --- 5th Place- Physical Sciences Senior High Individual - Plaque

<b>Greenwich</b>	Brunswick School	Dana Montanez	3503	LST	3	An Investigation of the Behavioral and Reproductive Patterns of Hemigrapsus Sanguineus		
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<b>Student(s)</b>	<b>Asher Porphy</b>	<b>Grade 11</b>	<b>Town</b>	Harrison
	<b>Timothy Saunders</b>	<b>Grade 11</b>	<b>Town</b>	New Canaan

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>Greenwich</b>	Brunswick School	Dana Montanez	6529	PST	2	Harvesting Kinetic Energy from Waves using "See-Saw Floating Arms"		
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<b>Student(s)</b>	<b>David Swigart</b>	<b>Grade 10</b>	<b>Town</b> Greenwich
	<b>Philip Chadwell</b>	<b>Grade 10</b>	<b>Town</b> Greenwich

\* Constellation, an Exelon Company --- 1st: \$150.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy

<b>Greenwich</b>	Greenwich Catholic School	Mrs. Lutz	4005	PT	3	Creamalicious		
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<b>Student(s)</b>	<b>Sofia Caracciolo</b>	<b>Grade 7</b>	<b>Town</b> Stamford
	<b>Morgan Adamson</b>	<b>Grade 7</b>	<b>Town</b> Stamford
	<b>Maria Profili</b>	<b>Grade 7</b>	<b>Town</b> Greenwich

\* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

<b>Greenwich</b>	Greenwich Catholic School	Lutz	2020	L7	1	Hydrogen Power		
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<b>Student(s)</b>	<b>Sebastian Henao</b>	<b>Grade 7</b>	<b>Town</b> Stamford
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\* Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS  
 \* American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF

<b>Greenwich</b>	Greenwich Catholic School	Mrs. Carol Ann Lutz	5554	P8	3	A SUPERIOR VITAMIN THAT IS ANTI-INFLAMMATORY AND ANTIBACTERIAL "VITAGUMMIES"		
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<b>Student(s)</b>	<b>Monica Marino</b>	<b>Grade 8</b>	<b>Town</b> Riverside
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\* Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner

<b>Greenwich</b>	Greenwich Catholic School	Carol Lutz	2517	L8	3	Music Therapy APPLIED		
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<b>Student(s)</b>	<b>Ella Ann Woei</b>	<b>Grade 8</b>	<b>Town</b> Greenwich
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\* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion  
 \* Connecticut Association for the Gifted --- Leonardo Davinci 7-8 Grade \$50 Gift Certificate

<b>Greenwich</b>	Greenwich Country Day School	Sam Rosenfeld	5031	P7	1	A computer can use machine learning to teach itself to be as good or better at blackjack than the experts.		
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<b>Student(s)</b>	<b>C. Brooks Harris</b>	<b>Grade 7</b>	<b>Town</b> Greenwich
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\* Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences 7th Grade Ind. - trophy and Invitation Compete in Broadcom MASTERS  
 \* People's United Bank Mathematics Awards - with ATOMIC --- 2nd Place Middle School- \$100 from ATOMIC, and Trophy, \$200 from People's United Bank  
 \* Computer Science Awards --- 1st Place Middle School - \$300, Trophy and Medallion

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Greenwich** Greenwich High School Andrew Bramante

3103	LS	1	From Tobacco to a Chemical Cocktail: A Smoker's E-cigarette Alternative May Lead to Bronchiolitis Obliterans
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**Student(s)** Hannah Goldenberg **Grade** 9 **Town** Old Greenwich

- \* Pfizer Life Sciences Awards --- 4th Place- Life Sciences Senior High- Plaque
- \* American Society of Safety Engineers, CT Valley Chapter --- \$150 grade 9-12 project
- \* TurnKey Compliance Solutions Environmental Awards --- \$300 Cash Award High School- For excellence in environmental sciences

**Greenwich** Greenwich High School Andrew Bramante

3106	LS	1	Magnesium Micromotor-Enabled Delivery of Oral, All-Natural Antibacterials for the Effective Targeting and Treatment of Urinary Tract Infection Causality in Infant Mortality
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**Student(s)** Charlotte Hallisey **Grade** 10 **Town** Greenwich

- \* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- \* Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion

**Greenwich** Greenwich High School Andrew Bramante

3064	LS	1	Biomimetic Degradation of Persistent Pollutants Using Common Wax Worm <i>Sakaiensis</i> Bacteria
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**Student(s)** Bennett Hawley **Grade** 11 **Town** Cos Cob

- \* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- \* Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- \$100 & plaque
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
- \* Stockholm Junior Water Prize --- Certificate, \$25 gift card to Amazon by CSEF, possible advance to further competition
- \* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- \* Mystic Aquarium - Sea Research Foundation --- \$100 and 4 Admission Tickets to Mystic Aquarium
- \* University of Hartford --- University of Hartford Scholarship- For Excellence in Engineering, Science or Mathematics \$26,000
- \* Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related
- \* University of Connecticut - Physics Department --- UCONN Early College Experience Program: Life Sciences - Co-Op \$100 Gift Certificate
- \* Yale Peabody Museum --- Family "six pack" of free passes to the Yale Peabody Museum

**Greenwich** Greenwich High School Mr. Bramante

3087	LS	1	Non-Invasive, Low Cost Diagnosis of Chronic Obstructive Pulmonary Disease (COPD) via Smartphone Breath Analysis
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**Student(s)** Hiba Hussain **Grade** 10 **Town** Old Greenwich

- \* Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High- \$300 & Plaque, Trip to compete at Intel ISEF
- \* Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion
- \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Greenwich** Greenwich High School Andrew Bramante

6051	PS	1	Magnetically-induced, Visual Detection of Trace Arsenic Contaminants in Water Using Fe <sub>3</sub> O <sub>4</sub> Photonic Crystal Structures
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**Student(s)** Raina Jain **Grade** 10 **Town** Greenwich

- \* Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & Plaque, trip to compete at Intel ISEF
- \* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- \* Environmental Sciences Awards with CACIWC --- 1st Place HS- \$500, Plaque, CACIWC gifts
- \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Environmental Project

**Greenwich** Greenwich High School Andrew Bramante

3095	LS	1	Ultrasensitive, Lab-on-a-Chip Detection of HIV via a Fluorescence-based, Europium-Doped Silica Nanoparticle Immunoassay
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**Student(s)** Joe Konno **Grade** 11 **Town** Greenwich

- \* Pfizer Life Sciences Awards --- 3rd Place- Life Sciences Senior High- \$200 & Plaque
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- \* Society for In Vitro Biology --- Certificate and \$25 Amazon gift card given by CSEF

**Greenwich** Greenwich High School Andrew Bramante

6029	PS	2	New Abundant and Sodium-Free Metakaolin Solid Electrolyte Ceramic for Power Grid Na-Ion Batteries
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**Student(s)** Alexander Kosyakov **Grade** 11 **Town** Riverside

- \* Energize CT/eesmarts Alternative/Renewable Energy Awards --- 2nd Place High School - \$300 Cash and Plaque,
- \* Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
- \* Yale Science & Engineering Association, Inc. --- Certificate, \$25 gift card to Amazon given by CSEF

**Greenwich** Greenwich High School Andrew Bramante

6033	PS	1	Open-source, In-field Smartphone Detection and Mapping of Waterborne Diseases via Time-Based Spectroscopic Sensing with a New 3D Printable Optical Interface
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**Student(s)** Nicholas Liu **Grade** 11 **Town** Greenwich

- \* Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences Senior High Individual - \$200 & Plaque
- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- \* ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
- \* The Goodwin-Niering Center for the Environment --- \$100 for "Excellence in Environmental Conservation Studies"
- \* Robotics And Beyond Award for Excellence in Physics- High School and Engineering Design- Middle School --- High School- For Excellence in Physics- \$200 for for Robotics And Beyond STEM Design Academy in July
- \* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2018 Invention Convention, April 28



[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Greenwich** Greenwich High School Andrew Bramante

3035	LS	2	Autonomously Killing Cancerous Cells by the Detection of up to Single Nucleotide Mutations
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**Student(s)** Collin Marino **Grade** 11 **Town** Greenwich

- \* Alexion Biotechnology Awards --- 3rd Place- Biotechnology Senior High- \$300 & plaque
- \* The Jackson Laboratory --- \$1,000 - The Jackson Laboratory Award for Excellence in Genomics Related Research

**Greenwich** Greenwich High School Andrew Bramante

3070	LS	1	Honeybee Melittin Apitherapy for Targeted Cancer Suppression and Decimation
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**Student(s)** Dante Minichetti **Grade** 12 **Town** Greenwich

- \* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

**Greenwich** Greenwich High School Mr. Bramante

3075	LS	2	Design and Fabrication of a Smart, Medicated Gel Bandage to Deliver Antibiotics to a Draining Wound
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**Student(s)** Romano Orlando **Grade** 12 **Town** Greenwich

- \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- \* Society for In Vitro Biology --- Certificate and \$25 Amazon gift card given by CSEF
- \* Connecticut Association for the Gifted --- Leonardo Davinci Award 9-12 Grade \$50 Gift Certificate
- \* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2018 Invention Convention, April 28

**Greenwich** Greenwich High School Andrew Bramante

6046	PS	2	Predicting the Fluctuation of Stocks During the 3-6 Day Period Before and After Quarterly Profit Announcements
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**Student(s)** Armstrong Park **Grade** 11 **Town** Riverside

- \* Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

**Greenwich** Greenwich High School Andrew Bramante

3042	LS	1	Controlled-Release Delivery of Ovarian Anticancer Paclitaxel via Vortex Ring, Donut-shaped Hydrogels
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**Student(s)** Emily Philipides **Grade** 12 **Town** Greenwich

- \* Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High- \$500 & Plaque, Trip to compete at Intel ISEF
- \* H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering in partnership with CCAT --- Life Sciences Senior 1st HS- \$1,000, Solid Silver Medal of Excellence, Invite to CASE Annual Mtg
- \* Alexion Biotechnology Awards --- 2nd Place- Biotechnology Senior High- \$500 & plaque

**Greenwich** Greenwich High School Andrew Bramante

6090	PS	1	Simple Gold Nanoparticle-based Colorimetric Detection of Escherichia coli in a Tap Water Matrix via Microfluidic Chip Assay
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**Student(s)** Amit Ramachandran **Grade** 12 **Town** Stamford

- \* Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences Senior High Individual - Plaque

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Greenwich** Greenwich High School Andrew Bramante

3060	LS	2	Non-Invasive Colorimetric Biosensor for Early Diagnosis of Prostate Cancer Through DNA-Mediated MicroRNA Detection
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**Student(s)** Rahul Subramaniam **Grade** 11 **Town** Cos Cob

- \* Alexion Biotechnology Awards --- 4th Place- Biotechnology Senior High- \$200 & plaque
- \* Society for In Vitro Biology --- Certificate and \$25 Amazon gift card given by CSEF

**Greenwich** Greenwich High School Andrew Bramante

3057	LS	2	Detection of Early-Stage Alzheimer's Disease via Hierarchical Classification of Proteomic and Clinical Profiles
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**Student(s)** Shobhita Sundaram **Grade** 12 **Town** Greenwich

- \* Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place High School \$250 / plaque
- \* Alexion Biotechnology Awards --- 1st Place- Biotechnology Senior High- Trip to compete at Intel ISEF, \$1000 & plaque,

**Greenwich** Greenwich High School Andrew Bramante

6079	PS	1	Ambient Carbon Dioxide Capture and Purified Gas Release Using Asphalt-Waste Derived, Porous Carbon Filtration
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**Student(s)** Melissa Woo **Grade** 10 **Town** Riverside

- \* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- \* UTC Aerospace Systems Engineering Awards --- 2nd Place- Engineering Senior High- \$400 & plaque
- \* Society of Women Engineers - Hartford Section --- Scientific Calculator
- \* Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, air pollution related

**Greenwich** Greenwich High School Mr. Bramante

6058	PS	1	Remediation of Heavy Metal and Fertilizer-Runoff Contaminants using High Throughput, Silk Nanofiber Biomimetic Multilayer Membranes
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**Student(s)** Nicholas Woo **Grade** 11 **Town** Greenwich

- \* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- \* ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
- \* Stockholm Junior Water Prize --- Certificate, \$25 gift card to Amazon by CSEF, possible advance to further competition
- \* Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt, First Place Senior

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Greenwich** Greenwich High School Andrew Bramante

6098 PS 1 Cost-Effective and Fully Recycled Filtration of Heavy Metals from Drinking Water Using Used Coffee Grounds Embedded in Discarded Polyurethane Sponges

**Student(s)** Verna Yin **Grade** 11 **Town** Cos Cob

- \* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- High School \$500 / plaque
- \* Environmental Sciences Awards with CACIWC --- 3rd Place HS- \$100, Plaque, CACIWC gifts
- \* Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- \* Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash
- \* ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
- \* Stockholm Junior Water Prize --- Certificate, \$25 gift card to Amazon by CSEF, possible advance to further competition
- \* Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to dinner
- \* Society of Women Engineers - Hartford Section --- Scientific Calculator
- \* Southeastern New England Marine Educators --- \$100 award and membership in SENEME - 1st Place Senior & T-Shirt
- \* University of Connecticut Academic Excellence Scholarship --- Academic Excellence Scholarship - \$6,500 a year for four academic years- (\$26,000 total)

**Groton** Sacred Heart School Dr. Juan Pacheco

5560 P8 2 Does temperature effect Helium loss from a balloon?

**Student(s)** Julia Ferris **Grade** 8 **Town** Ledyard

**Groton** Sacred Heart School Juan Pacheco

5530 P8 3 Simple Motor and Electromagnet

**Student(s)** Samuel Hammond **Grade** 8 **Town** New London

**Groton** Sacred Heart School Dr. Juan Pacheco

5037 P7 2 Watt's the Cost?

**Student(s)** Connor Harris **Grade** 7 **Town** Mystic

**Groton** Sacred Heart School Dr. Juan Pacheco

5009 P7 1 How Do Mixtures of Chiral Substances Affect the Rotation of Plane Polarized Light

**Student(s)** Payton Noe **Grade** 7 **Town** East Lyme

- \* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion

**Groton** Sacred Heart School Dr. Pacheco

5551 P8 3 The Thermodynamics of Chemiluminescence

**Student(s)** Kathleen Power **Grade** 8 **Town** Mystic

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Groton</b>	Sacred Heart School	Juan Pacheco	5021	P7	3	Can Gravity Sort Beads?		
<b>Student(s) Avery Rembish</b>							<b>Grade 7</b>	<b>Town Groton</b>
<b>Guilford</b>	Guilford High School	Dr. Harry Brielmann	3101	LS	3	Cystic Fibrosis Transmembrane Conductance Regulator Protein Misassembly in Correlation to Cystic Fibrosis		
<b>Student(s) Mariam Kish</b>							<b>Grade 11</b>	<b>Town Guilford</b>
<b>Hamden</b>	Sacred Heart Academy	Sibani Sengupta	3052	LS	2	Insights into cellular reprogramming: a computational biology approach.		
<b>Student(s) Kelly Frier</b>							<b>Grade 11</b>	<b>Town Middlefield</b>
* Sister Mary Christine Life Sciences Award --- \$150 for excellence in the life sciences by a catholic high school project								
<b>Hamden</b>	Sacred Heart Academy	Ms. Tubis	3019	LS	2	Spice It Up: The Use of Turmeric to Preserve Milk		
<b>Student(s) Shabrang Montazer</b>							<b>Grade 9</b>	<b>Town Hamden</b>
<b>Hamden</b>	Sacred Heart Academy	Dr. Elizabeth Christophy	6084	PS	2	Ammonia on Other Earths: Sensitive Chemical Tests for Future Probes		
<b>Student(s) Maria Papademetris</b>							<b>Grade 10</b>	<b>Town New Haven</b>
<b>Hamden</b>	Sacred Heart Academy	Sibani Sengupta	6097	PS	3	Comparing the Strengths of Industrial and Medical Cyanoacrylates		
<b>Student(s) Adalyn Schommer</b>							<b>Grade 10</b>	<b>Town Cheshire</b>
<b>Hartford</b>	Bulkeley High School	Genesis Quiles-Galarza	6502	PST	3	Play Dough Solidification		
<b>Student(s) Xavier Grant</b>							<b>Grade 11</b>	<b>Town Hartford</b>
<b>Natonia Hunte</b>							<b>Grade 11</b>	<b>Town Hartford</b>
<b>Hartford</b>	Bulkeley High School	Genesis Quiles-Galarza	3531	LST	3	Which Starch Plant Produces the Most Fuel?		
<b>Student(s) Sanya Hewitt</b>							<b>Grade 12</b>	<b>Town Hartford</b>
<b>Alison Ramirez-Cahuana</b>							<b>Grade 12</b>	<b>Town Hartford</b>
<b>Merceda McClain</b>							<b>Grade 12</b>	<b>Town Hartford</b>

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Hartford	Bulkeley High School	Ms. Quilles	6526	PST	3	How Do Various Liquids Affect The Rusting Process On A Metal Object?		
		<b>Student(s)</b>						
		Aisha Minteh					Grade 11	Town Hartford
		Samanta Dumornay					Grade 11	Town Hartford
		Mekyiah Thompson					Grade 11	Town Hartford
Hartford	Bulkeley high School	Ms.Quilles	3524	LST	3	How will various acids affect the decomposition rate of an apple?		
		<b>Student(s)</b>						
		Daviely Rivera					Grade 11	Town Hartford
		Kiana Torres					Grade 11	Town Hartford
Hartford	Bulkeley High School	Ms. Quilles	6508	PST	3	Key Finding Application		
		<b>Student(s)</b>						
		Alondra Rodriguez					Grade 11	Town Hartford
		Tajon Nickson					Grade 11	Town Hartford
Hartford	Bulkeley High School	Genesis Quiles-Galarza	3540	LST	3	How can color therapy help people improve their well being		
		<b>Student(s)</b>						
		Tatyana Santiago					Grade 11	Town Hartford
		Jeaneily Mendoza					Grade 11	Town Hartford
Hartford	Bulkeley High School	Genesis Quiles-Galarza	6534	PST	3	How Substance pH Affects Gummy Bear Mass		
		<b>Student(s)</b>						
		Raymonde Smith					Grade 12	Town Hartford
		Lena Lac					Grade 12	Town Hartford
		Shannel Senior					Grade 12	Town Hartford
Hartford	Environmental Sciences Magnet School at Mary	Mrs. Hays	2022	L7	2	Memorizing With Music		
		<b>Student(s)</b>						
		Maria Amisano					Grade 7	Town East Granby
<p>* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion                      * American Psychological Association --- Certificate, \$25 gift card to Amazon given by CSEF</p>								
Hartford	Environmental Sciences Magnet School at Mary	Ms.Hays	2013	L7	3	Whats On Your Mind		
		<b>Student(s)</b>						
		Catherine Fay					Grade 7	Town Middletown
Hartford	Environmental Sciences Magnet School at Mary	Mrs. Rebecca Hays	5014	P7	2	Sweet And Bitter Turned To Ash		
		<b>Student(s)</b>						
		Adrian Lewczuk					Grade 7	Town New Britain

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Hartford	Environmental Sciences Magnet School at Mary	Ms.Hays	5514	P8	3	Copper Water		
<b>Student(s) Yanayra Rosa</b>							<b>Grade 8</b>	<b>Town Newington</b>
Hartford	Environmental Sciences Magnet School at Mary	mrs. Hays	2005	L7	2	It's Brine Time: A Study of How Salinity Affects the Hatching Rate of Brine Shrimp		
<b>Student(s) Brianna Sanchez</b>							<b>Grade 7</b>	<b>Town Enfield</b>
* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion								
Hartford	Environmental Sciences Magnet School at Mary	Becca Hays	2029	L7	1	Informal Soldiers		
<b>Student(s) William Visalga</b>							<b>Grade 7</b>	<b>Town Newington</b>
* Pfizer Life Sciences Awards --- 4th Place- Life Sciences 7th grade- trophy and Invitation Compete in Broadcom MASTERS								
* CASE • PepsiCo Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion								
Hartford	Renzulli Academy	Kelley Howe	4017	PT	3	Catch'em With Color		
<b>Student(s) Elhame Adam</b>							<b>Grade 7</b>	<b>Town Hartford</b>
<b>Mikhaila Entsiwah</b>							<b>Grade 7</b>	<b>Town Manchester</b>
Hartford	Renzulli Academy	Kelly Howe	4030	PT	2	Case No: 520910 Fingerprint Finding		
<b>Student(s) Danielle James</b>							<b>Grade 7</b>	<b>Town East Hartford</b>
<b>Nasere Lewin</b>							<b>Grade 7</b>	<b>Town Hartford</b>
Hartford	Renzulli Academy	Ms.Howe	4027	PT	2	C-9: Project Solar Drone Project XD3		
<b>Student(s) Anthony Lessor</b>							<b>Grade 7</b>	<b>Town Bloomfeild</b>
<b>Raphael Burgos</b>							<b>Grade 7</b>	<b>Town Hartford</b>
<b>Alano Oquendo</b>							<b>Grade 7</b>	<b>Town Hartford</b>
* Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion								
Hartford	Renzulli Academy	Kelley Howe	2023	L7	3	Potato Power!!		
<b>Student(s) Alexis Maldonado</b>							<b>Grade 7</b>	<b>Town East Hartford</b>
Hartford	Renzulli Academy	Kelley Howe	4009	PT	2	Crystals!		
<b>Student(s) Melanie Ramos</b>							<b>Grade 8</b>	<b>Town Hartford</b>
<b>Pwit Phoo</b>							<b>Grade 8</b>	<b>Town Hartford</b>

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Hartford** Renzulli Academy Kelley Howe  
 5013 P7 3 Science Behind Slime  
**Student(s)** Jennifer Urbano **Grade 7** **Town** Hartford

**Hebron** RHAM High School Alexa Mitchell  
 3030 LS 3 A Computer Model of The Effect of Familial Structure on the Spread of the Influenza Virus  
**Student(s)** Isabelle Benson-Clarke **Grade 10** **Town** Marlborough

- \* Computer Science Awards --- Senior High Finalist - Medallion
- \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Computer Science

**Kensington** St. Paul School Michael Maggiore  
 2018 L7 3 Which gender has a better memory  
**Student(s)** Reiyako Pigeon **Grade 7** **Town** New Britain

**Kent** Kent School Jesse Klingebiel  
 6017 PS 2 Deep neural network based subspace learning of robotic manipulator workspace mapping  
**Student(s)** Peiyuan Liao **Grade 10** **Town** Kent

- \* Computer Science Awards --- Senior High Finalist - Medallion
- \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion

**Manchester** East Catholic High School Lesa Milas  
 6040 PS 2 Relation between different types of water turbine and the level of hydroelectric power produced  
**Student(s)** Madison Lee **Grade 9** **Town** Rocky Hill

- \* Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion

**Manchester** East Catholic High School Lesa Milas  
 6091 PS 1 Prototype Cotton Based Poly(N-isopropylacrylamide) Smart Hydrogel that Undergoes Hydrophilic-to-Hydrophobic Transition to Capture and Release Fresh Water from Humid Air  
**Student(s)** John Oei **Grade 9** **Town** Hebron

- \* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* Future Sustainability Awards - Eversource /energizeCT --- 3rd Place High School - \$200 Cash and Plaque
- \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Chemistry

**Manchester** Manchester High School Megan Rader  
 6005 PS 2 Effect of Various Ambient Gases on Stability of Perovskite Solar Cells  
**Student(s)** Khundker Hossain **Grade 12** **Town** Manchester

- \* Energize CT/eesmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Energy & Transportation



[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Manchester** Manchester High School Megan Rader  
 3105 LS 3 Does the Consumption of Certain Foods Affect Angiogenesis?  
**Student(s)** Taylor Keyt **Grade** 12 **Town** Manchester

**Milford** Luralton Hall Peter Knipp  
 3081 LS 2 Is the application of plantago major effective in inhibiting bacteria and having medicinal benefits?  
**Student(s)** Meghana Cheela **Grade** 9 **Town** Milford

**Milford** Luralton Hall Dr.Knipp  
 3004 LS 3 How do various sediments affect the growth and spreading of Naegleria Fowleri (Brain eating Amoeba)  
**Student(s)** Rachna Vipparla **Grade** 9 **Town** Milford

**Milford** Platt Tech - Green Step Jessica Stamp  
 6515 PST 2 Domestic Water Reuse System  
**Student(s)** Christian Haupt **Grade** 11 **Town** West Haven  
 Taylor Krieder **Grade** 11 **Town** Stratford  
 Christian Ramos **Grade** 11 **Town** Stratford

\* Future Sustainability Awards - Eversource /energizeCT --- 1st Place High School - \$500 Cash, Plaque  
 \* GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Future Sustainability

**Milford** Platt Tech - Green Step Jessica Stamp  
 6504 PST 3 Green Grocer. An app to reduce food waste and encourage healthy eating.  
**Student(s)** Veronica Novack **Grade** 11 **Town** Seymour  
 Samantha Laste **Grade** 11 **Town** Stratford  
 Taylor Jensen **Grade** 11 **Town** Ansonia

\* Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Physical Sciences

**New Britain** Goodwin Tech - Green STEP Mr.Donaghy  
 6505 PST 3 Mag Mover  
**Student(s)** Nicholas Fusco **Grade** 10 **Town** Bristol  
 Jace Lemrise **Grade** 10 **Town** Plainville

\* Barker Mohandas Awards for Transportation Research --- \$200 Cash & Plaque for Excellence in Transportation Related Research- High School  
 \* Bob Harris Fix It Award --- \$150 and Certificate for ingenuity in using material and tools

**New Britain** Goodwin Tech - Green STEP Michael Scott  
 3510 LST 3 Portable Emergency Water Filtration System  
**Student(s)** Michael Lopez **Grade** 10 **Town** Bristol  
 Thomas Batty **Grade** 10 **Town** New Britain  
 James Tanski **Grade** 10 **Town** Plainville

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**New Britain** Goodwin Tech - Green STEP Mr. Hinners  
 3517 LST 2 Solar Hybrid Organic Charger (SHOC)  
**Student(s)** **Juan Ospina** **Grade 11** **Town** New Britain  
**Daneirys Rivera** **Grade 11** **Town** Bristol  
**Xavier Santiago** **Grade 11** **Town** Bristol

**New Canaan** St. Aloysius School Deborah Phillips  
 5012 P7 2 More Water, Less Carbon.  
**Student(s)** **Jackson Saucedo** **Grade 7** **Town** Darien

\* American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF

**New Canaan** St. Aloysius School Deborah Phillips  
 4021 PT 3 Art of Drones  
**Student(s)** **Andrew Tully** **Grade 8** **Town** Norwalk  
**Kali Dimitrov** **Grade 8** **Town** Norwalk  
**Alex Lanzillotti** **Grade 8** **Town** stamford

**New Haven** Betsy Ross Arts Magnet School Roisin Macdonald  
 2509 L8 1 Brushing Bacteria  
**Student(s)** **Kendall Evans** **Grade 8** **Town** Ansonia

\* Pfizer Life Sciences Awards --- 5th Place- Life Sciences 8th grade- trophy

**New Haven** Betsy Ross Arts Magnet School Mrs Macdonald  
 5539 P8 1 Hovercraft  
**Student(s)** **Kaylee Fitzgerald** **Grade 8** **Town** Naugatuck

\* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion  
 \* U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate

**New Haven** Betsy Ross Arts Magnet School Roisin Macdonald  
 5011 P7 1 From Biomass To Biogas  
**Student(s)** **Matilda Pethrick** **Grade 7** **Town** Stratford

\* Lockheed Martin Physical Sciences Awards --- 5th Place- Physical Sciences 7th Grade Individual - trophy  
 \* CASE • PepsiCo Urban School Challenge Awards with IBM --- 4th Place Middle School - Trophy, Medallion  
 \* Environmental Sciences Awards with CACIWC --- 3rd Place MS- \$100, Trophy, CACIWC gifts  
 \* Energize CT/eesmarts Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy  
 \* Future Sustainability Awards - Eversource /energizeCT --- 3rd Place Middle School - \$100 Cash and Trophy  
 \* Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF  
 \* Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School, Physical Sciences  
 \* Frank J. Link Family Award for Energy Related Research --- Frank J. Link Award for Energy Related Research - \$50

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**New Haven** Betsy Ross Arts Magnet School K.Cichus

2014 L7 1 Clean up your act

**Student(s)** Josiah Williamson **Grade 7** **Town** New Haven

- \* Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion
- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion

**New Haven** Conte West Hills School Vanessa Clayton

5038 P7 2 The Heat Is On

**Student(s)** Jose Sarango **Grade 7** **Town** New Haven

**New Haven** St. Bernadette School Mr. Kerry Martens

5501 P8 2 Cracking M&Ms in the Microwave

**Student(s)** Christopher Enzo De Castro **Grade 8** **Town** Milford

**New Haven** St. Bernadette School Mr Kerry Martens

5004 P7 2 Determining the count of electrolytes in various drinks

**Student(s)** Isabella Purcell **Grade 7** **Town** East Haven

**New Haven** Wilbur Cross High School Nick Farrell & Joseph Zebrowski

3059 LS 1 Do rewards affect neuro-electrical resistance?

**Student(s)** Carlin Eswarakumar **Grade 11** **Town** New Haven

- \* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion
- \* American Psychological Association --- Certificate, \$25 gift card to Amazon given by CSEF
- \* IEEE, Connecticut Section --- \$100 Honorable Mention

**New Haven** Wilbur Cross High School Dr. Bernard Hulin

6061 PS 1 Synthesis and Separation Of a Chiral Compound In Preparation Of a Positron Emission Tomography (PET) Radiotracer

**Student(s)** Maya Geradi **Grade 12** **Town** New Haven

- \* Lockheed Martin Physical Sciences Awards --- 1st Place - Physical Sciences Senior High Individual - \$500 & Plaque, trip to compete at Intel ISEF
- \* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- 2nd Place High School - \$400 and Plaque, Medallion
- \* H. Joseph Gerber Award of Excellence presented by 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

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**New Haven** Worthington Hooker Middle School Mr. Jones

2010 L7 1 Underwater Battle: The Effect of Pollution on Brine Shrimp

**Student(s)** Athena Brown **Grade 7** **Town** New Haven

- \* 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 --- Middle School Finalist - Medallion
- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- 3rd Place Middle School - \$100 and Trophy, Medallion
- \* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- \* Alexion Biotechnology Awards --- 1st Place- Biotechnology 7th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS
- \* Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp
- \* Environmental / Energy Award- New Haven Public School Award --- \$100 Award for top environmental or alternative energy project from a New Haven public school

**New haven** Worthington Hooker Middle School Douglas Jones

5522 P8 3 Quiet as a mouse

**Student(s)** Aminah Fields **Grade 8** **Town** New Haven

**New Haven** Worthington Hooker Middle School Mr Jones

4008 PT 2 Catapult Lab

**Student(s)** Dusty Gibbon **Grade 7** **Town** New Haven  
 Noah Brown **Grade 7** **Town** New Haven

**New Haven** Worthington Hooker Middle School Mr. Jones

5001 P7 3 Powered Up Potatoes

**Student(s)** Julia Rosado **Grade 7** **Town** New Haven

**New Haven** Worthington Hooker Middle School Douglas Jones

4016 PT 2 Solving the Flood Problem: One Rock at a Time

**Student(s)** Sage Urban **Grade 8** **Town** New Haven  
 Amelia Cox **Grade 8** **Town** New Haven

**New Haven** Worthington Hooker Middle School Douglas Jones

5553 P8 2 Burning Calories: What's in Your Breakfast?

**Student(s)** Katherine Van Tassel **Grade 8** **Town** New Haven

- \* Demos R Us Award --- \$150 Cash Award- Clear Execution of Research

**New London** Bennie Dover Jackson Middle School Willie Barber

1015 LT 3 Eins

**Student(s)** Evangeline Baez **Grade 8** **Town** New London  
 Estefany Almanzar **Grade 8** **Town** New London

- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>New London</b>	Bennie Dover Jackson Middle School	Willie Barber	5507	P8	3	Green Step		
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<b>Student(s)</b>	Jennifer Fiestas	<b>Grade</b>	8	<b>Town</b>	New London
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\* Energize CT/eesmarts Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion  
 \* Constellation, an Exelon Company --- 2nd: \$50.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy

<b>New London</b>	Bennie Dover Jackson Middle School	Barber	4024	PT	3	Healthy Or Harmful Application Prototype		
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<b>Student(s)</b>	Taavi Veltheim	<b>Grade</b>	8	<b>Town</b>	New London
	Carissa Mims	<b>Grade</b>	8	<b>Town</b>	Jewett City

<b>New London</b>	Science and Technology Magnet High School	David Brown	6522	PST	3	Temperature-Viscosity Relationship in Predicting Seasonal Motor Function		
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<b>Student(s)</b>	Zachary Bachofner	<b>Grade</b>	9	<b>Town</b>	North Stonington
	Zachary Stock	<b>Grade</b>	9	<b>Town</b>	North Stonington

\* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion

<b>New London</b>	Science and Technology Magnet High School	Karen Napolitano	3514	LST	2	The Effect of Soil Acidity on Stomatal Concentrations of Solanum lycopersicum.		
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<b>Student(s)</b>	Sara Beth Bouchard	<b>Grade</b>	10	<b>Town</b>	Waterford
	Oliver Guijarro-Sines	<b>Grade</b>	10	<b>Town</b>	New London

<b>New London</b>	Science and Technology Magnet High School	Charles Mulligan	6012	PS	3	Correlations Between Insulator Composition and Potential to Retain Temperature		
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<b>Student(s)</b>	Jaylen Callender	<b>Grade</b>	9	<b>Town</b>	Montville
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<b>New London</b>	Science and Technology Magnet High School	Moniz	3092	LS	3	Implications for Increased Acidity for Metabolic Function of Freshwater Microinvertebrates (Daphnia magna)		
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<b>Student(s)</b>	Pedro Camacho-Leon	<b>Grade</b>	11	<b>Town</b>	Norwich
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\* CASE • PepsiCo Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion

<b>New London</b>	Science and Technology Magnet High School	Charles Mulligan	3077	LS	3	Results of Construction Vibrations on the Opening and Closing of a Stomata.		
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<b>Student(s)</b>	Luisanny Castillo	<b>Grade</b>	10	<b>Town</b>	New London
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<b>New London</b>	Science and Technology Magnet High School	Charles Mulligan	3539	LST	2	Drug Solubility: Influence of Acid Concentration on Solubilized and Unsolubilized Ibuprofen Over Time		
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<b>Student(s)</b>	Ella Cook	<b>Grade</b>	9	<b>Town</b>	Stonington
	Julissa Rodriguez	<b>Grade</b>	9	<b>Town</b>	New London

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
New London	Science and Technology Magnet High School	David Brwon	3003	LS	3	Modeling origin of blood via patterns in stain.		
					<b>Student(s)</b> Alexandria DeGunia	<b>Grade</b> 9	<b>Town</b> Waterford	
New London	Science and Technology Magnet High School	Charles Mulligan	6039	PS	3	Natural vs Synthetic Drinks Compared by Electrolyte Concentration		
					<b>Student(s)</b> Owen George	<b>Grade</b> 10	<b>Town</b> Uncasville	
* CASE • PepsiCo Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion								
New London	Science and Technology Magnet High School	Charles Mulligan	3039	LS	2	Effects of Increased Acidity on Freshwater Chlorophytes (Euglena sp.)		
					<b>Student(s)</b> Kyle Heard	<b>Grade</b> 10	<b>Town</b> Norwich	
New London	Science and Technology Magnet High School	David Brown	6077	PS	3	Implication of Fuel Type and Volume on Terminal Velocity of Projectiles		
					<b>Student(s)</b> Esoha Kadambaya	<b>Grade</b> 9	<b>Town</b> Norwich	
New London	Science and Technology Magnet High School	Karen Napolitano	3072	LS	3	Seaweed Bio-extraction: Influence of Green Algae (Ulva spp) and Sugar Kelp (Saccharina spp) on Carbon Dioxide Levels in the Atmosphere		
					<b>Student(s)</b> Kiera McCord	<b>Grade</b> 10	<b>Town</b> Norwich	
* CASE • PepsiCo Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion								
New London	Science and Technology Magnet High School	Charles Mulligan	3521	LST	3	Survivorship of Fresh Crustacea in Temperature Extremes		
					<b>Student(s)</b> Jo Potter	<b>Grade</b> 11	<b>Town</b> New London	
					Jaelynn Potter	<b>Grade</b> 10	<b>Town</b> New London	
New London	Science and Technology Magnet High School	Mulligan, Charles	3098	LS	3	The amount of carbon dioxide released by different model motor vehicles		
					<b>Student(s)</b> Christopher Silva	<b>Grade</b> 11	<b>Town</b> New london	
New London	Science and Technology Magnet High School	Isabela Moniz	3109	LS	3	Kinetics of Sucrose Conversion to Glucose Using Enzyme (Invertase) Across a Dietary Spectrum		
					<b>Student(s)</b> Finella Smith	<b>Grade</b> 9	<b>Town</b> Pawcatuck	
New London	Science and Technology Magnet High School	Mr. Mulligan	3014	LS	2	The Effect of Light Intensity on the Regeneration of Planarians (Dugesia sp.)		
					<b>Student(s)</b> Jane Statchen	<b>Grade</b> 9	<b>Town</b> Stonington	

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Newtown</b>	Newtown Middle School	Jeffery Shupp	2521	L8	2	Design and Testing of a Chitin-based Filter for Bio-remediation of Nitrates		
					<b>Student(s)</b>	<b>Marguerite LaBanca</b>	<b>Grade 8</b>	<b>Town</b> Sandy Hook
<ul style="list-style-type: none"> <li>* Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion</li> <li>* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion</li> <li>* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF</li> <li>* Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner</li> </ul>								
<b>Newtown</b>	St. Rose of Lima School	Mrs. Anastasia Damalas	2019	L7	1	Does PH affect the growth of grass?		
					<b>Student(s)</b>	<b>Julia Cirone</b>	<b>Grade 7</b>	<b>Town</b> Newtown
* Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion								
<b>Newtown</b>	St. Rose of Lima School	Nona Geloso	5023	P7	3	The effect of air pressure on the dynamics of ball bouncing.		
					<b>Student(s)</b>	<b>Jaxon Geloso</b>	<b>Grade 7</b>	<b>Town</b> Oxford
<b>Newtown</b>	St. Rose of Lima School	Mrs. Damalas	5026	P7	1	Effect Of Energy Drinks on Tooth Enamel		
					<b>Student(s)</b>	<b>Nicholas Prieto</b>	<b>Grade 7</b>	<b>Town</b> Newtown
* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion								
<b>Newtown</b>	St. Rose of Lima School	Mrs Damalas	5006	P7	2	The impact of angle on the amount of energy created by solar panels		
					<b>Student(s)</b>	<b>Thomas Simms</b>	<b>Grade 7</b>	<b>Town</b> Newtown
<b>Newtown</b>	St. Rose of Lima School	Ms Damalas	5008	P7	3	Battery Life		
					<b>Student(s)</b>	<b>Isabella Thomas</b>	<b>Grade 7</b>	<b>Town</b> Oxford
* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion								
<b>Norwich</b>	Norwich Tech - Green STEP	Pelloni	3525	LST	2	Creating Renewable Light Source in Dionaea muscipula Using GFP		
					<b>Student(s)</b>	<b>Hailey Bill</b>	<b>Grade 11</b>	<b>Town</b> Baltic
						<b>Emerald Haller</b>	<b>Grade 11</b>	<b>Town</b> Preston
<b>Norwich</b>	Norwich Tech - Green STEP	Aleatha Pelloni	6043	PS	2	The Effect Cellulase and Pectinase Have on the Extraction Methods Used to Isolate the Oil Spirulina Major Algae Produces Which Can Be Converted into Biodiesel More Efficiently.		
					<b>Student(s)</b>	<b>Joshua McConnell</b>	<b>Grade 11</b>	<b>Town</b> Baltic

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Norwich	Norwich Tech - Green STEP	Aleatha Pelloni	3511	LST	2	Using the Tidal Zone as a Renewable Source for Antibiotic-Producing Microbes		
						<b>Student(s)</b> Edward Russell	<b>Grade</b> 11	<b>Town</b> Colchester
						Nathanael Padgett	<b>Grade</b> 11	<b>Town</b> Lebanon
Norwich	Norwich Tech - Green STEP	Aleatha Pelloni	3501	LST	3	Isolating Bacillus thuringiensis from Soil Samples in Order to Develop a More Effective Biopesticide for Agricultural Lepidopteran Pests.		
						<b>Student(s)</b> Kelsey Williams	<b>Grade</b> 11	<b>Town</b> Gales Ferry
						Douglas Rediger	<b>Grade</b> 11	<b>Town</b> Baltic
Norwich	Norwich Technical High School	Lisa Elliott	3534	LST	2	Applying Educational Approaches to Reduce the Stigmas Associated with Attention Deficit Hyperactivity Disorder		
						<b>Student(s)</b> Halle Baron	<b>Grade</b> 12	<b>Town</b> Danielson
						Sylkia Hernandez	<b>Grade</b> 12	<b>Town</b> Plainfield
Norwich	Norwich Technical High School	Lisa Elliott	3519	LST	2	Education Increases Empathy Towards Autism.		
						<b>Student(s)</b> Kalli Campbell	<b>Grade</b> 12	<b>Town</b> Uncasville
						Taylor Plante	<b>Grade</b> 12	<b>Town</b> Jewett City
Norwich	Norwich Technical High School	Lisa Elliott	3505	LST	2	Perceptions surrounding mental illness can be diminished with education and knowledge about Dissociative identity disorder		
						<b>Student(s)</b> Emily Cherwin	<b>Grade</b> 12	<b>Town</b> Norwich
						Makayla Carson	<b>Grade</b> 12	<b>Town</b> Quaker Hill
Norwich	Norwich Technical High School	Aleatha Pelloni	6524	PST	3	The Effects of Breaking Down Universal Gold 1%/3% Foam Replacing ingredients with Renewable Resources		
						<b>Student(s)</b> John Coleman	<b>Grade</b> 11	<b>Town</b> Norwich
						Aaron Toof	<b>Grade</b> 11	<b>Town</b> Voluntown
Norwich	Norwich Technical High School	Jesse Morin	3522	LST	2	Investigation of the Tenascin-X Protein and its Role in Ehlers-Danlos Syndrome		
						<b>Student(s)</b> Brianna Dziekan	<b>Grade</b> 12	<b>Town</b> Baltic
						Athena Missios	<b>Grade</b> 12	<b>Town</b> Uncasville



[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Norwich	Norwich Technical High School	Lisa Elliott	3541	LST	2	Modifying Adolescent Behavior by Educating them on Bipolar Disorder to Diminish the Stigmas associated		
						<b>Student(s)</b> Debbie Garcia	<b>Grade</b> 12	<b>Town</b> Norwich
						Chloe Guzman	<b>Grade</b> 12	<b>Town</b> Pawcatuck
Norwich	Norwich Technical High School	Lisa Elliott	3544	LST	2	Education's Impact on Perceptions About Borderline Personality Disorder		
						<b>Student(s)</b> Noelis Guzman	<b>Grade</b> 12	<b>Town</b> Norwich
						Ashley Varjenski	<b>Grade</b> 12	<b>Town</b> Colchester
						Kaitlyn Stripling	<b>Grade</b> 12	<b>Town</b> Voluntown
Norwich	Norwich Technical High School	Aleatha Pelloni	3547	LST	3	What "Bugs" Gromphadorhina portentosa?		
						<b>Student(s)</b> Gabrielle Martin	<b>Grade</b> 11	<b>Town</b> North Stonington
						Samantha Grott	<b>Grade</b> 11	<b>Town</b> Bozrah
Norwich	Norwich Technical High School	Jesse Morin	3516	LST	2	Evaluating an LCHAD Deficiency Model System Created Using CRISPR/Cas9 and C. elegans		
						<b>Student(s)</b> Courtney Michaud	<b>Grade</b> 12	<b>Town</b> Norwich
						Kyle Tempesta	<b>Grade</b> 12	<b>Town</b> Uncasville
* Connecticut Science Supervisors Association --- \$125 for a high school project								
Norwich	Norwich Technical High School	Dr. Jesse Morin	3053	LS	2	The Effect of Teaching Through A Research-Based Curriculum Versus Traditional Methods on Educational Outcomes		
						<b>Student(s)</b> Christopher Papotto	<b>Grade</b> 12	<b>Town</b> Colchester
Norwich	Norwich Technical High school	Lisa Elliott	3550	LST	3	Knowledge will increase behavioral changes and acceptance of individuals experiencing obsessive-compulsive disorder		
						<b>Student(s)</b> Kaitlin Reen	<b>Grade</b> 12	<b>Town</b> Plainfield
						Genesis Tavarez	<b>Grade</b> 12	<b>Town</b> New London
Norwich	Norwich Technical High School	Chris Porto	6506	PST	3	Research and construction of a Tesla Coil.		
						<b>Student(s)</b> Michael Reid	<b>Grade</b> 12	<b>Town</b> Lebanon
						Matthew Cloutier	<b>Grade</b> 12	<b>Town</b> Hanover
* IEEE, Connecticut Section --- \$100 Honorable Mention								
* Wisner Award --- \$250 cash and plaque								

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Norwich</b>	Norwich Technical High School	Dr. Morin	3017	LS	1	Can probiotic yeast be used to decrease the severity of Type 2 Diabetes symptoms in a Drosophila melanogaster disease model?		
			<b>Student(s)</b>		<b>Gianpierre Roche</b>	<b>Grade 12</b>	<b>Town</b>	Willimantic
* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion								
* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Microbiology								
<b>Norwich</b>	Norwich Technical High School	Ernest Todd	6510	PST	2	Robotic Hand		
			<b>Student(s)</b>		<b>Aaron Steendam</b>	<b>Grade 11</b>	<b>Town</b>	Canterbury
					<b>Justin Relaz</b>	<b>Grade 11</b>	<b>Town</b>	Norwich
* Zepke Award --- \$125 - For the Best Use of Electronic Circuitry- Senior High								
<b>Norwich</b>	Norwich Technical High School	Dr. Morin	3089	LS	1	The Effect of the FAAH Gene on Alcohol Consumption and Inhibition in C. elegans		
			<b>Student(s)</b>		<b>Ryan Stollman</b>	<b>Grade 12</b>	<b>Town</b>	Colchester
* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion								
<b>Pawcatuck</b>	St. Michael School	Anna-Helene Grossomanides	2001	L7	3	Does a female's sport and medical history affect their gait and possibly cause a gait abnormality?		
			<b>Student(s)</b>		<b>Molly Kulick</b>	<b>Grade 7</b>	<b>Town</b>	Mystic
* Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School Life Sciences								
<b>Pawcatuck</b>	St. Michael School	Mrs. Grossomanides	5508	P8	2	The Effect of Brand Selection on the UV Blocking Ability of Sunscreen		
			<b>Student(s)</b>		<b>Samuel Montalto</b>	<b>Grade 8</b>	<b>Town</b>	Westerly
<b>Pawcatuck</b>	St. Michael School	Ann-Helene Grossomanides	5005	P7	3	Possible uses of magnets in modern construction and transportation		
			<b>Student(s)</b>		<b>William Wholean</b>	<b>Grade 7</b>	<b>Town</b>	Pawcatuck
<b>Plantsville</b>	J.F. Kennedy Middle School	Mrs. Pepin	5020	P7	3	Rollin' Along		
			<b>Student(s)</b>		<b>Alisha Paul</b>	<b>Grade 7</b>	<b>Town</b>	Southington
<b>Redding</b>	CT STEM FAIR - Amity Regional High School	Catherine Piscitelli	6093	PS	3	Determining Best 3D Printing Materials to Create Model Human Vertebrae		
			<b>Student(s)</b>		<b>McAllister Dixon</b>	<b>Grade 9</b>	<b>Town</b>	Woodbridge

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Redding	CT STEM FAIR - Amity Regional High School	Catherine Piscitelli	6531	PST	3	Traffic Data Analysis of Car Crashes in New Haven		
						<b>Student(s)</b> Austin Gilbride	<b>Grade</b> 11	<b>Town</b> Woodbridge
						Joseph Benedetti	Grade 11	Town Bethany
Redding	CT STEM FAIR - Amity Regional High School	Deborah Day	3108	LS	2	Determining the Effect of Flow on Time Perception		
						<b>Student(s)</b> Alicia Gopal	<b>Grade</b> 9	<b>Town</b> Woodbridge
Redding	CT STEM FAIR - Amity Regional High School	Deborah Day	6042	PS	2	Comparison of 14-Day Survival and Development of Lymantria dispar asiatica and Lymantria dispar dispar on Out-of-Season Foliages		
						<b>Student(s)</b> Jody Liu	<b>Grade</b> 10	<b>Town</b> Orange
Redding	CT STEM FAIR - Amity Regional High School	Deborah Day	3048	LS	2	The Effect of the Altering of the Light-Dark Cycle on the Mass (g) of Leafy Green Algae (Ulva lactuca) Eaten by the Periwinkle Snail (Littorina littorea)		
						<b>Student(s)</b> Nicole Mongillo	<b>Grade</b> 10	<b>Town</b> Orange
Redding	CT STEM FAIR - Amity Regional High School	Deborah Day	3024	LS	2	The Effect of Misophonia on Selective Attention Control		
						<b>Student(s)</b> Hannah Rappaport	<b>Grade</b> 12	<b>Town</b> Orange
						* American Psychological Association --- Certificate, \$25 gift card to Amazon given by CSEF		
						* Connecticut Academy of Audiology --- \$200 Award HS- For Excellence in Audiology and Acoustics, opport. to shadow an audiologist		
Redding	Joel Barlow High School	Dr. Katherine Nuzzo	3013	LS	2	Effects of Soil Composition on the Decline of Fraxinus americana		
						<b>Student(s)</b> Sean Mullin	<b>Grade</b> 11	<b>Town</b> Redding
						* Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum		
Redding	Joel Barlow High School	Katherine Nuzzo	3002	LS	3	The Role of Temperature in Indoor Vermicomposting with Eisenia Fetida in Leachate Production and Quality via Limiting Nutrients P+ and N+		
						<b>Student(s)</b> Rachel Wagner	<b>Grade</b> 12	<b>Town</b> Redding
Ridgefield	Ridgefield High School	Ryan Gleason	3037	LS	2	Functional Impact of RBP2 on Celular Senescence and Pluripotency in Murine Breast Cancer Cell Lines		
						<b>Student(s)</b> Nicole Alindogan	<b>Grade</b> 12	<b>Town</b> Ridgefield

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Ridgefield</b>	Ridgefield High School	Patrick Hughes	3034	LS	3	Genetic Mechanisms Regulating Expression of Tor and EGFR Genes in Eusocial and Primitively Social Insects		
			<b>Student(s)</b>		<b>Maia Clarkin</b>	<b>Grade</b>	<b>12</b>	<b>Town</b> Ridgefield
<b>Ridgefield</b>	Ridgefield High School	Ryan Gleason	3018	LS	1	Testing the Effectiveness of Various Shading Materials on Mock Leatherback Sea Turtle Nests		
			<b>Student(s)</b>		<b>Annabelle Colao</b>	<b>Grade</b>	<b>12</b>	<b>Town</b> Ridgefield
* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion * Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum								
<b>Ridgefield</b>	Ridgefield High School	Mr. Ryan Gleason	3058	LS	3	Using stable isotope analysis to understand the trophic ecology of sharks in North Carolina		
			<b>Student(s)</b>		<b>Adrianna Davis</b>	<b>Grade</b>	<b>12</b>	<b>Town</b> Ridgefield
<b>Ridgefield</b>	Ridgefield High School	Patrick Hughes	3073	LS	2	A survey comparing percent colonization of various AMF species in tropical soils at varying levels of regeneration		
			<b>Student(s)</b>		<b>Anna Landler</b>	<b>Grade</b>	<b>11</b>	<b>Town</b> Ridgefield
<b>Ridgefield</b>	Ridgefield High School	Ryan Gleason	6009	PS	3	Modeling Permafrost Degradation to Estimate the Irreversibility of Runaway Climate Change		
			<b>Student(s)</b>		<b>Alexander Price</b>	<b>Grade</b>	<b>12</b>	<b>Town</b> Ridgefield
<b>Rocky Hill</b>	Rocky Hill High School	Mr. DeBacco	6011	PS	3	Reusable Paper with Light-based Writing		
			<b>Student(s)</b>		<b>Zirui Hao</b>	<b>Grade</b>	<b>12</b>	<b>Town</b> Rocky Hill
<b>Sandy Hook</b>	Newtown High School	Timothy DeJulio	3043	LS	3	The Effect of Mushroom Spores on Condensation		
			<b>Student(s)</b>		<b>Tristan Filiato</b>	<b>Grade</b>	<b>12</b>	<b>Town</b> Newtown
<b>Sandy Hook</b>	Newtown High School	Tim DeJulio	6003	PS	3	The Effect of Dark Energy on Photons		
			<b>Student(s)</b>		<b>Brendan O'Hara</b>	<b>Grade</b>	<b>12</b>	<b>Town</b> Newtown
<b>Shelton</b>	Shelton High School	Mary Clark	3001	LS	3	The Effect of Weather Patterns on Migraines		
			<b>Student(s)</b>		<b>Jules Cayer</b>	<b>Grade</b>	<b>9</b>	<b>Town</b> Shelton

# Conn. Science & Engineering Fair

## Winning Projects

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Shelton	Shelton High School	Mrs Mary Clark	6059	PS	2	Enhancing Latent Prints Visualized through Iodine Fuming with Magnetic Powders		
		<b>Student(s)</b> Sarah Gloria					<b>Grade</b> 11	<b>Town</b> Shelton
Shelton	Shelton High School	Lucia Dunham	6062	PS	3	Pumping Iron		
		<b>Student(s)</b> Spencer Hatfield					<b>Grade</b> 10	<b>Town</b> Shelton
		* American Society for Metals - Hartford Chapter --- \$100 Check						
Shelton	Shelton High school	Christine McNamara	3542	LST	2	Eye Color Ability		
		<b>Student(s)</b> Trista Oddo					<b>Grade</b> 9	<b>Town</b> Shelton
		Jaylee Zwaan					<b>Grade</b> 9	<b>Town</b> Shelton
Shelton	Shelton High School	Christine McNamara	3545	LST	2	Doggy Doorbell		
		<b>Student(s)</b> Phoebe Rodia					<b>Grade</b> 10	<b>Town</b> Shelton
		Iris White					<b>Grade</b> 10	<b>Town</b> Shelton
		Brooke Weiss					<b>Grade</b> 9	<b>Town</b> Shelton
Shelton	Shelton High School	Charles Fowler	6096	PS	3	Snow: The Atmospheric Scrubbing Brush		
		<b>Student(s)</b> Cora Welsh					<b>Grade</b> 10	<b>Town</b> Shelton
Shelton	Shelton High School	Jerry Kelley	6013	PS	3	Fire Hydrant Alert System		
		<b>Student(s)</b> Kyle Young					<b>Grade</b> 10	<b>Town</b> Shelton
Shelton	Shelton Intermediate School	Mr. Rudman	4012	PT	3	The Stretchiness of slime		
		<b>Student(s)</b> Kayla Bretan					<b>Grade</b> 8	<b>Town</b> Shelton
		Maddigan Leifer					<b>Grade</b> 8	<b>Town</b> Shelton
		Autumn Murphy					<b>Grade</b> 8	<b>Town</b> Shelton
Shelton	Shelton Intermediate School	Tina Genova	4006	PT	1	Lets Bounce		
		<b>Student(s)</b> Alexa Civale					<b>Grade</b> 8	<b>Town</b> Shelton
		Isabella Silvis					<b>Grade</b> 8	<b>Town</b> Shelton

\* Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Shelton** Shelton Intermediate School Ms. Genova  
 5518 P8 2 Sneaker Feature 2  
**Student(s)** Sofia Gasbarro **Grade 8** **Town** Shelton

\* Samantha Freeman Award for Excellence in Sports Science or Engineering --- For Excellence in Sports Science or Engineering by a Middle School student, \$100 cash

**Southington** J.A. DePaolo Middle School Donna Shea  
 5019 P7 3 That's How The Cookie Crumbles  
**Student(s)** Madalyn McAuliffe **Grade 7** **Town** Southington

**Southington** Southington Catholic School Martina Shoukralla  
 5521 P8 3 Money Laundry  
**Student(s)** Ana Cawley **Grade 8** **Town** Southington

**Southington** Southington Catholic School martina shoukralla  
 5509 P8 3 INVISIBLE FORCE:: Creating Magnetic Fields  
**Student(s)** John Galvin **Grade 8** **Town** Southington

**Stamford** Bi-Cultural Day School Christopher Graseck  
 2026 L7 2 The Effect of Salt Water on Radish Growth  
**Student(s)** Daniel Goldberg **Grade 7** **Town** Stamford

**Stamford** Bi-Cultural Day School Mr. Christopher Graseck  
 2017 L7 3 Comparing Organic and non organic seeds in filtered and non filtered water,  
**Student(s)** Naomi Hanna **Grade 7** **Town** Stamford

**Stamford** Bi-Cultural Day School Christopher Graseck  
 1005 LT 1 Studying The Impact Of Acid Rain And Gutter Water On The Growth Of Three Plants  
**Student(s)** Zachary Isaacs **Grade 7** **Town** Stamford  
 David Klein **Grade 7** **Town** Stamford

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

\* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

**Stamford** Bi-Cultural Day School Chris Graseck  
 2538 L8 2 The Impact of Antibacterial Soap on Daphnia Magna: Implications for the Environment  
**Student(s)** Anna Lichtenberg **Grade 8** **Town** Stamford

\* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion

\* Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion

# Conn. Science & Engineering Fair

## Winning Projects

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Stamford</b>	Independent - The Harvey School, Katonah, NY	Ms. Marcie Hajem	2507	L8	1	Sugars in foods: implications for Diabetics		
					<b>Student(s)</b>	<b>Wendy Lichtenberg</b>	<b>Grade 8</b>	<b>Town</b> Stamford
* Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion								
<b>Stamford</b>	The Catholic Academy of Stamford	Mr. Hyland	5555	P8	3	Maglev Magnetics		
					<b>Student(s)</b>	<b>Andrew Buchkowski</b>	<b>Grade 8</b>	<b>Town</b> Stamford
<b>Stamford</b>	The Catholic Academy of Stamford	Mr. Hyland	5010	P7	3	Battle of the Bubbles		
					<b>Student(s)</b>	<b>Eden Cheung</b>	<b>Grade 7</b>	<b>Town</b> Stamford
<b>Stamford</b>	The Catholic Academy of Stamford	Mr. Hyland	5517	P8	3	Sensors and Robotics		
					<b>Student(s)</b>	<b>Lucas Duarte</b>	<b>Grade 8</b>	<b>Town</b> Stamford
<b>Stamford</b>	The Catholic Academy of Stamford	Mr. Hyland	4010	PT	3	The Egg Drop		
					<b>Student(s)</b>	<b>Robert Grande</b>	<b>Grade 7</b>	<b>Town</b> Stamford
						<b>Perry Kounavelis</b>	<b>Grade 7</b>	<b>Town</b> Stamford
<b>Stamford</b>	The Catholic Academy of Stamford	Mr. Hyland	5533	P8	3	Optical Illusions Infinity Mirror		
					<b>Student(s)</b>	<b>Morgan Vossler</b>	<b>Grade 8</b>	<b>Town</b> Stamford
<b>Stamford</b>	The Catholic Academy of Stamford	Mr. Hyland	5536	P8	3	How Do Airplanes Fly?: Bernoulli's Principle		
					<b>Student(s)</b>	<b>Sierra Wood</b>	<b>Grade 8</b>	<b>Town</b> Stamford
* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF								
<b>Storrs</b>	E.O. Smith High School	Cheryl Granger	6006	PS	3	Finding the Ideal Baseball Swing Path through Calculus and Physics		
					<b>Student(s)</b>	<b>Alexander Chandy</b>	<b>Grade 11</b>	<b>Town</b> Storrs
* Connecticut College-Physics, Astronomy, & Geophysics Dept. --- \$150 and certificate, Senior Physics & teeshirt								
<b>Stratford</b>	St. Mark School	Mrs. Lynn Olins	2032	L7	2	Don't Rain on my Radish (How does acid rain affect the growth of radishes?)		
					<b>Student(s)</b>	<b>Skyler Johansen</b>	<b>Grade 7</b>	<b>Town</b> Stratford



[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Stratford	St. Mark School	Lynn Olins	5561	P8	2	Stealthy Shapes		
<b>Student(s) Michael LaMonica IV</b>							<b>Grade 8</b>	<b>Town Stratford</b>
Stratford	St. Mark School	Mrs. Linn Olins	5032	P7	3	Rust-Acidity (How do different levels of acid rain affect some kinds of iron?)		
<b>Student(s) Elizabeth Long</b>							<b>Grade 7</b>	<b>Town Milford</b>
* American Society for Metals - Hartford Chapter --- \$100 Check								
Stratford	St. Mark School	Mrs. Olins	5022	P7	3	Dirty Composition		
<b>Student(s) John Pastorok</b>							<b>Grade 7</b>	<b>Town Stratford</b>
Stratford	St. Mark School	Mrs. Olins	5513	P8	3	Lights, Camera, Refraction		
<b>Student(s) Julia Sciallo</b>							<b>Grade 8</b>	<b>Town Stratford</b>
Stratford	St. Mark School	Mrs. Olins	5540	P8	1	Are you a 'fan' of wind turbines?		
<b>Student(s) Kaitlyn Szczepanski</b>							<b>Grade 8</b>	<b>Town Stratford</b>
* Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences 8th Grade Ind. - trophy and Invitation Compete in Broadcom MASTERS * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF								
Suffield	Suffield High School	Mitch Charkiewicz	3021	LS	2	Naturally Enhancing Plants' Yield and Growth Rate		
<b>Student(s) John Dion</b>							<b>Grade 11</b>	<b>Town Suffield</b>
Suffield	Suffield High School	Mitch Charkiewicz	3507	LST	3	The Application of Magnetotactic Bacteria for the Efficient Production of Energy		
<b>Student(s) Ekaterina Fraser</b>							<b>Grade 11</b>	<b>Town Suffield</b>
<b>Shreedula Balakrishnan</b>							<b>Grade 11</b>	<b>Town Suffield</b>
Suffield	Suffield High School	Mitchell Charkiewicz	3502	LST	3	The Effects Sodium Chloride (Road Salt) has on the Surrounding Environment When Used as an Ice Melting Agent.		
<b>Student(s) Madison Gadomski</b>							<b>Grade 11</b>	<b>Town West Suffield</b>
<b>Jessica Wessner</b>							<b>Grade 11</b>	<b>Town West Suffield</b>

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Suffield	Suffield High School	Mitch Charkiewicz	3513	LST	3	Saving the Honey Bee: Designing a Revolutionary Pollen Mineral Analysis Kit for Beekeepers.		
		<b>Student(s)</b>				<b>Joseph Gleason</b>	<b>Grade 12</b>	<b>Town</b> West Suffield
						<b>Samatar Wehelie</b>	<b>Grade 12</b>	<b>Town</b> Suffield
Suffield	Suffield High School	Mitchell Charkiewicz	6089	PS	3	The Anti-Overdose Pill Bottle Stemming the Opiod Epidemic		
		<b>Student(s)</b>				<b>Ziad Hassan</b>	<b>Grade 11</b>	<b>Town</b> Suffield
		<ul style="list-style-type: none"> <li>* Barnes Aerospace Applied Technology Awards --- 2nd Place High School - \$300 and Plaque Medallion</li> <li>* Unilever Trumbull R&amp;D --- Shadow Day at Unilever Trumbull R&amp;D Centre</li> <li>* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy &amp; Invitation to compete at the 2018 Invention Convention, April 28</li> </ul>						
Suffield	Suffield High School	Mitchell Charkiewicz	6060	PS	3	A Novel Health Monitoring System		
		<b>Student(s)</b>				<b>Akshita Jindal</b>	<b>Grade 9</b>	<b>Town</b> Suffield
		* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2018 Invention Convention, April 28						
Suffield	Suffield High School	Mitchell Charkiewicz	3099	LS	3	The relationship between altitude and the incidence of skin cancer		
		<b>Student(s)</b>				<b>Laila Lawson</b>	<b>Grade 9</b>	<b>Town</b> West Suffield
Suffield	Suffield High School	Mitchell Charkiewicz	3008	LS	3	The Effects of Videos Games On Problem Solving Skills		
		<b>Student(s)</b>				<b>Leroy Lawson</b>	<b>Grade 11</b>	<b>Town</b> West Suffield
Suffield	Suffield High School	Mitchell Charkiewicz	6002	PS	3	Unforeseen Impacts of Cosmic Radiation on the Species of Earth		
		<b>Student(s)</b>				<b>SreeKeerthi ManurSreekantaMurthyGari</b>	<b>Grade 9</b>	<b>Town</b> Suffield
Suffield	Suffield High School	Mitchell Charkiewicz	3110	LS	2	New Findings: Optimal Temperature for Quail Egg Production as a Function of Ambient Temperature		
		<b>Student(s)</b>				<b>Robert Mueller</b>	<b>Grade 12</b>	<b>Town</b> West Suffield
Suffield	Suffield High School	Mitch Charkiewicz	3533	LST	3	The applying the understanding of running for the improvement of runners.		
		<b>Student(s)</b>				<b>Charles Rose</b>	<b>Grade 10</b>	<b>Town</b> Suffield
						<b>Monica van Ginkel</b>	<b>Grade 10</b>	<b>Town</b> Suffield

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Suffield** Suffield High School Mitchell Charkiewicz  
 3071 LS 3 A Novel Approach To Holistic Medicine For Dog Allergies  
**Student(s)** Lizbeth Serrano **Grade** 11 **Town** Hartford

**Suffield** Suffield High School Mitchell Charkiewicz  
 6056 PS 3 Stopping an allergic reaction before it starts: A small mass spectrometer to detect peanuts within foods for those with  
**Student(s)** Zachariah Service **Grade** 12 **Town** Suffield

**Suffield** Suffield High School Mitchell Charkiewicz  
 3504 LST 3 Astrology in Pop Culture and history. Is it accurate?  
**Student(s)** Abigail Sperrazza **Grade** 10 **Town** Suffield  
 Jenna Uzdarwin **Grade** 10 **Town** Suffield

**Suffield** Suffield High School Mr. Charkiewicz  
 3029 LS 2 How Water Chemistry Varies Spatially Across Congamond Lake  
**Student(s)** Brooke Tillotson **Grade** 11 **Town** Windsor Locks

\* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion

**Suffield** Suffield High School Mitchell Charkiewicz  
 3091 LS 3 Plant Growth Using Vitamin Induced Water  
**Student(s)** Aidan Werenski **Grade** 11 **Town** Suffield

**Suffield** Suffield High School Mitchell Charkiewicz  
 3529 LST 2 The Impact of Physical Activity on Human Reaction Time.  
**Student(s)** Bruce Wilson **Grade** 11 **Town** Suffield  
 Kyle Englander **Grade** 11 **Town** Suffield  
 Michael Sattan **Grade** 11 **Town** Suffield

\* Samantha Freeman Award for Excellence in Sports Science or Engineering --- For Excellence in Sports Science or Engineering by a High School student, \$100 cash

**Suffield** Suffield Middle School Mitchell Charkiewicz  
 4001 PT 3 Creating Electricity using Gravity  
**Student(s)** John-Henry Burke **Grade** 8 **Town** Suffield  
 Alexander Litvak **Grade** 8 **Town** Suffield

\* Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Suffield** Suffield Middle School Mr. Mitchell Charkiewicz  
 2502 L8 1 The Effect of Musicianship to Speed of Learning Languages

**Student(s)** Isabella Jiang **Grade 8** **Town** Suffield

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

**Suffield** Suffield Middle School Mr Mitch Charkiewicz  
 4019 PT 3 Converting Sound Energy into an Electrical Energy

**Student(s)** Ayush Mehta **Grade 8** **Town** Suffield

Cole Cutler **Grade 8** **Town** Suffield

Jack Shanks **Grade 8** **Town** Suffield

\* Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion

**Suffield** Suffield Middle School Mr. Mitch Charkiewicz  
 4013 PT 3 How does temperature affect crystal growth?

**Student(s)** Aarya Vasantlal **Grade 8** **Town** Suffield

Avie Vasantlal **Grade 8** **Town** Suffield

**Trumbull** Christian Heritage School Daniel Cote  
 5531 P8 1 D.I.Y. Hovercraft: Lift and Propulsion

**Student(s)** Maxwell Barbagallo **Grade 8** **Town** Sandy Hook

\* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion  
 \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion  
 \* John S. Kendall Memorial Awards --- \$300 John S. Kendall Award for Excellence In Mechanical Engineering - Middle School

**Trumbull** Christian Heritage School Daniel Cote  
 6085 PS 2 Field Testing for Practical Application of OER Catalyst Nickel-Iron Oxide in Extraterrestrial and Underwater Areas

**Student(s)** Daniel Colgate **Grade 11** **Town** Bridgeport

**Trumbull** Christian Heritage School Daniel Cote  
 6020 PS 3 The Design of a Self-Funding Heating System

**Student(s)** Miles Meade **Grade 11** **Town** Shelton

\* Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion  
 \* Westinghouse Electric Company/New England Chapter of North American Young Generation in Nuclear --- 1st place, Excellence in Energy Research, \$100 cash award

**Trumbull** Christian Heritage School Theresa Miller  
 5510 P8 1 Aqua-Safe: Helping the World, One Bucket at a Time

**Student(s)** Alec Mota **Grade 8** **Town** Derby

\* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion  
 \* American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF

# Conn. Science & Engineering Fair

## Winning Projects

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Trumbull</b>	Christian Heritage School	Daniel Cote	5516	P8	2	The Effect of Salt on the Power Output of a Microbial Fuel Cell		
		<b>Student(s)</b> Natania Muriel					<b>Grade</b> 8	<b>Town</b> Shelton
<b>Trumbull</b>	Christian Heritage School	Daniel Cote	6054	PS	3	Carbon Emission-Free Power Generation Using Wave Energy and a Robust Generator		
		<b>Student(s)</b> Ranita Muriel					<b>Grade</b> 11	<b>Town</b> Shelton
		<ul style="list-style-type: none"> <li>* Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion</li> <li>* University of New Haven High School Awards in Engineering &amp; Science --- \$100 For High School Project in Sustainability</li> <li>* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy &amp; Invitation to compete at the 2018 Invention Convention, April 28</li> </ul>						
<b>Trumbull</b>	Christian Heritage School	Daniel Cote	5549	P8	3	The Effect of Temperature on Lift Decay in Helium Balloons		
		<b>Student(s)</b> Nathan Nagel					<b>Grade</b> 8	<b>Town</b> Trumbull
		* Connecticut College-Physics, Astronomy, & Geophysics Dept. --- \$150 and certificate, Junior Physics & teeshirt						
<b>Trumbull</b>	Christian Heritage School	Daniel Cote	6087	PS	2	The Effectiveness of Different Media of Air Gap Hacking Over Distance		
		<b>Student(s)</b> William Rojas					<b>Grade</b> 11	<b>Town</b> Easton
<b>Trumbull</b>	St. Joseph High School	Shannon Calvert	6034	PS	3	Measuring Stellar Parallax of 61 Cygni		
		<b>Student(s)</b> James Bove					<b>Grade</b> 12	<b>Town</b> Trumbull
		* Astronomical Society of Greater Hartford --- Senior Project-\$150, subscription to Sky and Telescope magazine and ASGH meeting invitation						
<b>Trumbull</b>	Trumbull High School	Steffanie Elkins	3094	LS	3	Detecting Genetically Modified Foods		
		<b>Student(s)</b> Evani Dalal					<b>Grade</b> 10	<b>Town</b> Trumbull
<b>Trumbull</b>	Trumbull High School	Steffanie Elkins	3050	LS	3	The effect of outside life on school life.		
		<b>Student(s)</b> Howard Qian					<b>Grade</b> 10	<b>Town</b> Trumbull
<b>Trumbull</b>	Trumbull High School	Steffanie Elkins	6100	PS	3	Impact of Submerged Barrier Resistance on Internal Waves		
		<b>Student(s)</b> Arnav Srivastava					<b>Grade</b> 11	<b>Town</b> Trumbull

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Wallingford** Choate Rosemary Hall Richard Kyung

6067 PS 3 Noise Removal Analysis Using Proposed LPF(Low Pass Filter) and Windows

**Student(s)** Se Ri Lee **Grade** 11 **Town** Wallingford

- \* People's United Bank Mathematics Awards - with ATOMIC --- 2nd Place High School- \$100 from ATOMIC, Plaque, \$300 from People's United Bank
- \* Mu Alpha Theta --- Certificate, \$25 Amazon gift card given by CSEF
- \* IEEE, Connecticut Section --- \$250 Honors Award -Senior

**Waterbury** Our Lady of Mt. Carmel School Tricia Ann Vertuccio

1010 LT 2 Will It Preserve?

**Student(s)** Markela Karameta **Grade** 8 **Town** Waterbury  
 Sonila Pasholi **Grade** 8 **Town** Waterbury

**Waterbury** Our Lady of Mt. Carmel School Tricia Ann Vertuccio

4003 PT 3 Battery Breakdown

**Student(s)** Logan Pilla **Grade** 7 **Town** Waterbury  
 Seth Glinsky **Grade** 7 **Town** Waterbury

**Waterford** Waterford High School Michael O'Connor

3096 LS 1 Development of a Novel Copepod-Based Mosquito Ovitrap

**Student(s)** Sophie Wang **Grade** 12 **Town** Waterford

- \* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- \* Environmental Sciences Awards with CACIWC --- 2nd Place HS- \$200, Plaque, CACIWC gifts
- \* Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- \* J.A. Augustine Award --- \$100 for excellence in biology
- \* Fox Pest Control Award for Environmental Management --- \$150 Cash for Excellence in Environmental Management
- \* Yale Peabody Museum --- Family "six pack" of free passes to the Yale Peabody Museum

**West Hartford** Hebrew High School of New England Zachary Towne

3020 LS 2 The Effect of Coffee Extracts on Viable Cells within Staphylococcus Epidermidis Biofilm Colonies

**Student(s)** Batya Koenigsberg **Grade** 11 **Town** New Haven

- \* Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner

**West Hartford** King Philip Middle School Robert Felekey

4023 PT 3 Environmental monitoring robot that uses temperature and ammonia level sensors to measure the environment in the area around the robot.

**Student(s)** Alexander Belsham **Grade** 8 **Town** West Hartford  
 Andrew Belsham **Grade** 8 **Town** West Hartford

**West Hartford** King Philip Middle School Robert Felekey

5537 P8 3 The search for a fuel-efficient jetliner: Testing three airfoils in a wind tunnel.

**Student(s)** Andrew Sauer **Grade** 8 **Town** West Hartford

- \* U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**West Hartford** King Philip Middle School Robert Felekey  
 5512 P8 1 Slip Hazard Alarm Robot H2OhNoBot

**Student(s) Theodore Zhang** **Grade 8** **Town** West Hartford

- \* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- \* IEEE, Connecticut Section --- \$100 Honorable Mention

**West Hartford** St. Brigid - St. Augustine Partnership School Donald Fay  
 2004 L7 3 How do acids and bases affect enzymes ?

**Student(s) Miranda Estrada** **Grade 7** **Town** Hartford

**West Hartford** St. Brigid - St. Augustine Partnership School Mr.Fay  
 2007 L7 3 Biomechanics of Dance

**Student(s) Faith Saunders** **Grade 7** **Town** Hartford

**West Hartford** St. Brigid - St. Augustine Partnership School dfay@stbstapartnership.eduk13.  
 1011 LT 2 Music vs. Mind: Music affects the Brain

**Student(s) Sejmora Thomas** **Grade 7** **Town** Bloomfield  
**Victoria Mealha** **Grade 7** **Town** Hartford

**West Hartford** St. Timothy Middle School Danielle Locke  
 5002 P7 2 Pineapple Punch

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

- \* Alexion Biotechnology Awards --- 2nd Place- Biotechnology 7th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS

**West Hartford** St. Timothy Middle School Mrs. Locke  
 5511 P8 1 Don't Rock The Boat

**Student(s) Brooke Barry** **Grade 8** **Town** West Hartford

- \* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF

**West Hartford** St. Timothy Middle School Danielle Locke  
 4011 PT 2 Surviving the Cold!

**Student(s) Connor Dainiak** **Grade 7** **Town** West Hartford  
**Griffin Oshaughnessy** **Grade 7** **Town** West Hartford



[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**West Hartford** St. Timothy Middle School Danielle Locke

2528	L8	1	Saving Crops from Cold Snaps – The Effect of Gamma-Aminobutyric Acid (GABA) on Freeze Tolerance in Wheatgrass
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**Student(s)** Grace Flynn **Grade 8** **Town** West Hartford

- \* Pfizer Life Sciences Awards --- 1st Place- Life Sciences 8th grade- \$300 & trophy and Invite to Compete Broadcom MASTERS
- \* Environmental Sciences Awards with CACIWC --- 1st Place MS - \$300, Trophy, CACIWC gifts
- \* Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Life Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- \* Alexion Biotechnology Awards --- 4th Place- Biotechnology 8th grade- trophy and Invitation Compete in Broadcom MASTERS
- \* **The Karen J. Howell Middle School Award for “Learning and Serving”**  
 --- The Karen J. Howell Middle School Award for “Learning and Serving” - \$1000

**Weston** Weston Middle School Melanie Welsh

2518	L8	2	How Far has Humanity Come from Instinct?
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**Student(s)** Ava Cho **Grade 8** **Town** Weston

**Weston** Weston Middle School Melanie Welsh

2523	L8	3	How are different diets more or less effective for weight loss and lowering the risk of heart disease?
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**Student(s)** Luca O'Neil **Grade 8** **Town** Weston

**Weston** Weston Middle School Melanie Welsh

1008	LT	3	Insecticide or Suicide? Creating and Comparing Natural and Unnatural Insecticides
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**Student(s)** Nicole Satanovsky **Grade 8** **Town** Weston  
 Konstantina Gotouhidis **Grade 8** **Town** Weston

- \* American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF

**Weston** Weston Middle School Melanie Welsh

1004	LT	1	How Can Climate Change Affect the Rate of Evolution on Baker's Yeast's
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**Student(s)** Lecia Sun **Grade 8** **Town** Weston  
 Brynne McGee **Grade 8** **Town** Weston

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

**Westport** Staples High School Karen Thompson

6081	PS	2	The Effect of EsMCsu1, from Eutrema Salsugineum, on Transformed Arabidopsis Related to Drought Resistance
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**Student(s)** Juliana Hopper **Grade 12** **Town** Westport

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Westport** Staples High School Karen Thompson  
 3062 LS 2 Using a Machine Learning Algorithm to Predict if a Breast Tumor is Malignant or Benign  
**Student(s) Aniruddha Murali** **Grade 11** **Town** Westport

- \* People's United Bank Mathematics Awards - with ATOMIC --- 1st Place High School- \$150 from ATOMIC, Plaque, \$500 from People's United Bank
- \* Computer Science Awards --- 3rd Place High School- \$200, Plaque, Medallion
- \* Intel Excellence in Computer Science Award --- \$200 & certificate
- \* U.S. Metric Association --- Certificate & \$25 Amazon gift card given by CSEF
- \* Mu Alpha Theta --- Certificate, \$25 Amazon gift card given by CSEF

**Westport** Staples High School Karen Thompson  
 3104 LS 3 Study on the Effect of Weather Patterns and Events on the Nocturnal Migration of Birds  
**Student(s) Jory Teltser** **Grade 11** **Town** Westport

**Westport** Staples High School Karen Thompson  
 6065 PS 2 The Effect of MN250 on the Removal of Sulfonamide Antibiotics in Wastewater  
**Student(s) Joshua Zhang** **Grade 11** **Town** Westport

**Wilton** Middlebrook School Debbie Mallozi  
 2533 L8 2 Metabolic Touch  
**Student(s) Krithika Natarajan** **Grade 8** **Town** Wilton

**Wilton** Middlebrook School Kendra Norman  
 5003 P7 2 Power Walking with Piezoelectricity  
**Student(s) Sebastien Shaw** **Grade 7** **Town** Wilton

- \* IEEE, Connecticut Section --- \$100 Honorable Mention

**Wilton** Middlebrook School Paige Randall  
 5017 P7 1 The Buzzing Eye - Helping The Blind  
 (school submitted title - Supersonic Blind Helper)  
**Student(s) Varun Vadhera** **Grade 7** **Town** Wilton

- \* Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences 7th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
- \* Barnes Aerospace Applied Technology Awards --- 1st Place Middle School - \$300 and Trophy, Medallion
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- \* IEEE, Connecticut Section --- \$250 Honors Award -Junior
- \* Zepke Award --- \$100 - For the Best Use of Electronic Circuitry- Middle School

**Wilton** Middlebrook School Jessica Garcia  
 5558 P8 2 Mirror-cle Solar Panels  
**Student(s) Jessica Wu** **Grade 8** **Town** Wilton

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Windsor** Academy of Aerospace and Engineering Dr. Lili Aramli  
 3548 LST 3 Comparative Analysis of the Effects of Different Dietary Supplements on Breast Cancer Cells  
**Student(s)** Anthony Antony **Grade 11** **Town** Farmington  
 Jonathan Spafford **Grade 11** **Town** Windsor

**Windsor** Academy of Aerospace and Engineering Dr. Bellinger  
 6501 PST 1 Effect of Experimental Parameters on Forming Prince Rupert's Drops for Maximum Strength and Toughness.  
**Student(s)** Srikar Godilla **Grade 11** **Town** Newington  
 Cristian Rodriguez **Grade 11** **Town** East Hartford

- \* Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Team- \$300(split) & Plaque
- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- 1st Place High School - \$500 and Plaque, Medallion and trip to compete at Intel Int. Sci. & Eng. Fair
- \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering in partnership with CCAT --- Urban School Challenge 1st HS- \$1,000 (split for teams), Invite to CASE Annual Mtg
- \* H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering in partnership with CCAT --- \$500 to 1st HS Urban School Challenge Science Department for Equipment/Supplies
- \* University of Connecticut - Physics Department --- UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificat
- \* Arthur Mensing Award --- \$1000 cash award for excellence in the physical sciences
- \* American Society for Metals - Hartford Chapter --- \$100 Check

**Windsor** Academy of Aerospace and Engineering Michelle Bellinger  
 6528 PST 2 Effect of the Size, Shape and Spatial Distribution of the Second Phase Polymer in a 3D Printed Polymer/Polymer Composite on the Mechanical Properties of the Material.  
**Student(s)** Gianna Guzzo **Grade 10** **Town** Suffield  
 Andrea Lacunza **Grade 10** **Town** Avon

- \* Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre

**Windsor** Academy of Aerospace and Engineering Dr. Lillian Aramli  
 3055 LS 3 The Effect of Biotin (Vitamin H) on Regeneration in Planarian  
**Student(s)** Ondrea Kerr **Grade 11** **Town** Bloomfield

**Windsor** Academy of Aerospace and Engineering Lili Aramli  
 3107 LS 3 The Effect of Overexpression of CREB-Binding Protein (CBP) on Gene Expression of Tumor Suppressor p53 in Mus musculus Breast Carcinoma (BRCA) Cells  
**Student(s)** Rishika Maitra **Grade 12** **Town** Middletown

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>Windsor</b>	Academy of Aerospace and Engineering	dr. Bellinger	6533	PST	2	Combinations of Polyethylene Glycol and Silica Nanoparticles as a Dilatant on Shock Absorption and Unequal Shear Transfer Rate		
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<b>Student(s)</b>	<b>Nicolas McMahon</b>	<b>Grade</b>	<b>10</b>	<b>Town</b>	<b>Windsor</b>
	<b>Emily Ngo</b>	<b>Grade</b>	<b>10</b>	<b>Town</b>	<b>South Windsor</b>

- \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* Garg Consulting Services Award for Excellence in Transportation Engineering --- \$250 cash and plaque

<b>Windsor</b>	Academy of Aerospace and Engineering	Lilli Aramli	3025	LS	3	The Effect of Dopamine on Zebrafish Embryo Social and Biological Development		
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<b>Student(s)</b>	<b>Rebecca Nowinski</b>	<b>Grade</b>	<b>12</b>	<b>Town</b>	<b>Tolland</b>
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<b>Windsor</b>	Academy of Aerospace and Engineering	Dr. Bellinger	6516	PST	1	The Effects of Positioning of Micro Vertical Axis Wind Turbines in a Network on Efficiency and Power Output		
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<b>Student(s)</b>	<b>Chris Rinaldi</b>	<b>Grade</b>	<b>11</b>	<b>Town</b>	<b>Enfield</b>
	<b>Jean Pasato</b>	<b>Grade</b>	<b>11</b>	<b>Town</b>	<b>Middletown</b>
	<b>Vishakh Talanki</b>	<b>Grade</b>	<b>11</b>	<b>Town</b>	<b>South Windsor</b>

- \* Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences Senior High Team- \$500 (split) & Plaque
- \* Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion
- \* Future Sustainability Awards - Eversource /energizeCT --- 2nd Place High School - \$300 Cash and Plaque
- \* UTC Aerospace Systems Engineering Awards --- 3rd Place- Engineering Senior High- \$200 & plaque
- \* Ct Architecture Foundation Award - The William M. Mack, AIA Award --- \$250 Gift Certificate to Barnes and Noble from the Connecticut Architecture Foundation, William M. Mack, AIA Award.

<b>Windsor</b>	Academy of Aerospace and Engineering	Dr. Aramli	3518	LST	3	The Intensity of Marine Bioluminescent Organisms in Manipulated Environments		
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<b>Student(s)</b>	<b>Tanu Singh</b>	<b>Grade</b>	<b>12</b>	<b>Town</b>	<b>South Windsor</b>
	<b>Dharini Jasti</b>	<b>Grade</b>	<b>12</b>	<b>Town</b>	<b>Ellington</b>

<b>Windsor</b>	Academy of Aerospace and Engineering	Dr. Michelle Bellinger	6066	PS	2	Undulated Leading-Edge Airfoils in Low to Medium Reynolds Number Regime		
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<b>Student(s)</b>	<b>Keshav Vedula</b>	<b>Grade</b>	<b>12</b>	<b>Town</b>	<b>Windsor</b>
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- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- 4th Place High School - Plaque, Medallion
- \* UTC Aerospace Systems Engineering Awards --- 1st Place- Engineering Senior High- Trip to compete at Intel ISEF, \$500 & plaque,
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
- \* American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate
- \* Connecticut Association of Physics Teachers --- \$100 Senior project

<b>Windsor</b>	Greater Hartford Academy of Math and Science	Dr. Lili Aramli	3523	LST	2	The Effect of Turmeric on the Gene Expression of Breast Cancer Cells in Mice		
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<b>Student(s)</b>	<b>Malavika Madan</b>	<b>Grade</b>	<b>12</b>	<b>Town</b>	<b>South Windsor</b>
	<b>Rahul Nimmagadda</b>	<b>Grade</b>	<b>12</b>	<b>Town</b>	<b>Avon</b>

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Windsor** Greater Hartford Academy of Math and Science Dr. Bellinger  
 3023 LS 3 Human-Human Interface: The Effect of Using Different Nerves on Involuntary Movement.  
**Student(s)** Sreenidhi Nair **Grade** 12 **Town** West Hartford

**Windsor** Greater Hartford Academy of Math and Science Lili Aramli  
 3007 LS 3 A Metanalysis of Single Nucleotide Polymorphisms in the BRCA1 and BRCA2 Genes of Breast Cancer Patients  
**Student(s)** Alexandra Smith **Grade** 11 **Town** West Suffield

**Windsor** Greater Hartford Academy of Math and Science Michelle Bellinger  
 6517 PST 2 Effect of Adding Reclaimed Polylactic Acid (PLA) to Virgin PLA on the Mechanical Properties  
**Student(s)** Michael Stefano **Grade** 12 **Town** Wethersfield  
 Jacob Manente **Grade** 12 **Town** Southington

\* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion

**Windsor** Greater Hartford Academy of Math and Science Michelle Bellinger  
 6530 PST 1 Effect of Increasing the Poly(ethylene) Oxide in Bombyx mori Silk Fibroin on Mechanical Properties of the Polymer Blend Systems  
**Student(s)** Alexa Wilson **Grade** 12 **Town** Rocky Hill  
 Preksha Gupta **Grade** 12 **Town** Rocky Hill  
 Sana Kasmani **Grade** 12 **Town** Rocky Hill

\* Lockheed Martin Physical Sciences Awards --- 3rd Place - Physical Sciences Senior High Team - Plaque  
 \* CASE • PepsiCo Urban School Challenge Awards with IBM --- 3rd Place High School - \$ 300 and Plaque, Medallion  
 \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion

**Windsor** Madina Academy Zaide Ibic  
 2009 L7 1 An Easy and Economic Way of Filtering Salt Water  
**Student(s)** Abdulmalik Ajdinowski **Grade** 7 **Town** Windsor Locks

\* Pfizer Life Sciences Awards --- 5rd Place- Life Sciences 7th grade- trophy  
 \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion  
 \* Alexion Biotechnology Awards --- 5th Place- Biotechnology 7th grade- trophy

**Windsor** Madina Academy Zaide Ibic  
 6518 PST 2 Using Wasted Heat from Hot Showers to Recycle Energy  
**Student(s)** Ahmad Mohammed **Grade** 9 **Town** Windsor  
 Muaz Sharaf **Grade** 9 **Town** Windsor Lock  
 Samir Khan **Grade** 9 **Town** Wethersfield

\* Energize CT/eesmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion  
 \* Constellation, an Exelon Company --- 2nd: \$100.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Windsor** Madina Academy Zaide Ibic  
 3086 LS 3 The Effect of the Consumption of Organic vs. Non-Organic Lactuca Sativa on the Growth and Health of Cynthia Caterpillars

**Student(s)** Ruqayyah Paine **Grade** 10 **Town** Terryville

\* Evelyn Brown Award --- \$50 - Earth Science - Field work with Geologic or historic value

**Windsor** Madina Academy Zaide Ibic  
 1009 LT 1 Investigating short-term effect of different video games on the body.

**Student(s)** Ahmad Zoghol **Grade** 7 **Town** Enfield

**Amer Kabatilo** **Grade** 7 **Town** Windsor

**Zain Kabatilo** **Grade** 7 **Town** Windsor

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

**Windsor** Madina Academy Zaide Madina  
 6523 PST 2 Harnessing ocean wave kinetic energy in an eco-friendly way to generate electricity applying Faraday's law of induction

**Student(s)** Al-Yaman Zoghol **Grade** 9 **Town** Enfield

**Ahmed Zeinalabdin** **Grade** 9 **Town** Windsor

\* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion

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

**Windsor** St. Gabriel School Ms Meg Rosa  
 5519 P8 2 Capillary Action

**Student(s)** Timothy Paradise **Grade** 8 **Town** West hartford

**Windsor** St. Gabriel School Margaret Rosa  
 2539 L8 3 Erosion Commotion

**Student(s)** Emily Quinn **Grade** 8 **Town** Windsor

**Windsor** St. Gabriel School Miss Meg Rosa  
 5016 P7 3 Marble Roller Coaster  
 How Much Height to Loop the Loop?

**Student(s)** Michael Sponzo **Grade** 7 **Town** Windsor

**Windsor** St. Gabriel School Meg Rosa  
 5029 P7 2 How Safe Is Your Water?

**Student(s)** Katherine Wilkos **Grade** 7 **Town** Windsor

\* American Society of Safety Engineers, CT Valley Chapter --- \$100 grade 7-8 project

[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Windsor** The Loomis Chaffee School Richard Kyung  
 6071 PS 1 A Study on the Alternative Space Filling Curve

**Student(s)** Jae Hyung Lee **Grade** 10 **Town** Windsor

- \* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion

**Windsor** The Loomis Chaffee School Koby Osei-Mensah  
 3005 LS 1 Combating Food Deserts with Bean Urban Agriculture

**Student(s)** Julianna Lee **Grade** 11 **Town** Windsor

- \* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- \* Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- \* ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
- \* Connecticut Nurserymen's Foundation, Inc. --- \$200 Cash Award & paid registration to the CT Nursery and Landscape Summer Meeting

**Windsor** The Loomis Chaffee School Koby Osei-Mensah  
 6018 PS 3 The Consonance of Alternative Tuning Systems

**Student(s)** Aresh Pourkavoos **Grade** 9 **Town** Avon

- \* People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion
- \* Computer Science Awards --- 2nd Place High School - \$300, Plaque, Medallion
- \* Intel Excellence in Computer Science Award --- \$200 & certificate
- \* U.S. Metric Association --- Certificate & \$25 Amazon gift card given by CSEF
- \* Leask/Francoeur Family Awards --- 1st Place High School- For innovation electrical engineering or computer science - \$200 cash

**Woodbridge** Amity Regional High School Deborah Day  
 6102 PS 3 The effect of different biochars on phosphate retention

**Student(s)** Talia Barry **Grade** 11 **Town** Orange

**Woodbridge** Amity Regional High School Deborah Day  
 3085 LS 2 Desmosterol Mediated Anti-inflammatory Effects in Atherogenesis are Linked to Inflammasome Activation

**Student(s)** Agrani Dixit **Grade** 12 **Town** Woodbridge

**Woodbridge** Amity Regional High School Catherine Piscitelli  
 6064 PS 2 Determining How Concentration and Solution Type Govern Multi-Walled Carbon Nanotube (MWCNTs) Aggregation Behavior

**Student(s)** Rosie Du **Grade** 11 **Town** New Haven

**Woodbridge** Amity Regional High School Catherine Piscitelli  
 3067 LS 3 The Effect of Overexpression of Mir-24 on Cell Mortality

**Student(s)** Ulada Dubovik **Grade** 12 **Town** Orange



[SchTown] [School] [Teacher]  
 [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s)

**Woodbridge** Amity Regional High School Catherine Piscitelli  
 6047 PS 1 The Impacts of pH on Ethene Degradation and Growth of Ethenotrophs  
**Student(s) Jacob Feuerstein** **Grade 11** **Town** Woodbridge

\* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion

**Woodbridge** Amity Regional High School Deborah Day  
 6010 PS 2 Janus Bottlebrush Copolymers: A Universal Strategy Enabling Access to Ultra-Small Phase Separation  
**Student(s) Vince Li** **Grade 12** **Town** Orange

**Woodbridge** Amity Regional High School Deborah Day  
 3090 LS 2 The Effect of Different Melanoma Treatments on Surface Protein Expression of Innate Immune System Cells  
**Student(s) Tracy Lu** **Grade 10** **Town** Woodbridge

**Woodbridge** Amity Regional High School Deborah Day  
 3082 LS 2 Investigating the Role of Sodium Chloride on Pathogenic B Cell Function in Multiple Sclerosis  
**Student(s) Ningxin Luo** **Grade 10** **Town** Orange

**Woodbridge** Amity Regional High School Mrs. Day  
 6057 PS 2 The Effectiveness of Ceramic Membranes with a Manganese Oxide Coating in Filtering Dyes from Industrial Wastewater  
**Student(s) Ella Marin** **Grade 10** **Town** Woodbridge

\* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion  
 \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Engineering: Mechanical  
 \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Environmental Science

**Woodbridge** Amity Regional High School Deborah Day  
 3011 LS 2 The effects of multiple blood meals and apoptosis on midgut basal lamina integrity in Aedes aegypti mosquitoes  
**Student(s) Ameya Menta** **Grade 10** **Town** Orange

**Woodbridge** Amity Regional High School Deborah Day  
 6037 PS 3 The Effect of Ski-Boot Tightness on Ankle-Flexion Angle  
**Student(s) Henry Molot** **Grade 12** **Town** Woodbridge

**Woodbridge** Amity Regional High School Deborah Day  
 3111 LS 2 The Effect of Sea Level Rise and Salt Marsh Change on the Population of Uca Pugnax  
**Student(s) Natalie Prinz** **Grade 10** **Town** Bethany

\* Alumni Botany Awards --- Alumni High School Botany Award- \$100 Cash

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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**Woodbridge** Amity Regional High School Deborah Day

6044	PS	2	Assessment of Cation Competition on the Effectiveness of Paramagnetic Lanthanides as Shift Agents for Sodium-23 Magnetic Resonance Spectroscopy					
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**Student(s)** Keri Tenerowicz **Grade** 11 **Town** Bethany

**Woodbridge** Amity Regional High School Deborah Day

3074	LS	2	Diagnosis of breast cancer based on native tissue fluorescence using wide-field multispectral fluorescence imaging					
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**Student(s)** Anthony Tom **Grade** 11 **Town** Orange

**Woodbridge** Amity Regional High School Deborah Day

6099	PS	2	Sinkhole detection using Wireless Sensor Networks and Structural Health Monitoring					
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**Student(s)** Sophia Wang **Grade** 10 **Town** Woodbridge

\* American Society of Safety Engineers, CT Valley Chapter --- \$150 grade 9-12 project  
 \* ISA - International Society for Automation - Ct. Valley Section --- 3rd - \$50 award

**Woodbridge** Amity Regional High School Deborah Day

6095	PS	2	Enhancing Cybersecurity by Developing a User Authentication System Using Keystroke Dynamics					
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**Student(s)** Kate Yuan **Grade** 11 **Town** Woodbridge

\* U.S. Metric Association --- Certificate & \$25 Amazon gift card given by CSEF