



# Connecticut Science & Engineering Fair

## Quinnipiac University

### March 14 - 18, 2017

### Special Award Winners

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	6529	PST	3	Virtual Forensics Chemical Lab Simulation App (for Liquids, Metals, and Nonmetal Solids)		
		<b>Student(s)</b> Jaya Hari					<b>Grade</b> 9	<b>Town</b> Avon
		Dheepa Hari					<b>Grade</b> 9	<b>Town</b> Avon
* American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF								
Avon	Talcott Mountain Academy	Ms. Finlayson	2029	L7	2	The Effects Of Weather On Warblers in Pomfret Ct		
		<b>Student(s)</b> Connor Farquhar					<b>Grade</b> 7	<b>Town</b> West Hartford
* Yale Peabody Museum --- One-Year Family Membership to the Yale Peabody Museum								
Avon	Talcott Mountain Academy	Usha Meera	2021	L7	2	Can Pseudomonas putida purify the air by biodegrading volatile organic compounds ?		
		<b>Student(s)</b> Karan Kothari					<b>Grade</b> 7	<b>Town</b> Glastonbury
* Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, air pollution related								
Avon	Talcott Mountain Academy	Lydia Gibb	5539	P8	2	Unsupervised Machine Learning for Text Categorization		
		<b>Student(s)</b> Aresh Pourkavoos					<b>Grade</b> 8	<b>Town</b> Avon
* Leask/Francoeur Family Awards --- 1st Place Middle School- For innovation electrical engineering or computer science - \$200 cash								
Baltic	Sayles School	Miss Roy	5041	P7	3	Wave Generated Beach Erosion		
		<b>Student(s)</b> Abigail Staggs					<b>Grade</b> 7	<b>Town</b> Baltic
* Association for Women Geoscientists --- Certificate & \$25 gift card to Amazon given by CSEF								
Bethany	Amity Reg Middle School - Bethany Campus	Kevin Berean	4004	PT	1	Water Turbine		
		<b>Student(s)</b> Christopher Hill					<b>Grade</b> 8	<b>Town</b> Woodbridge
		Benjamin Lee					<b>Grade</b> 8	<b>Town</b> Woodbridge
* Dreams Unlimited Award --- \$200 Cash Award + Certificate								

# Conn. Science & Engineering Fair

## Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>Bethany</b>	Amity Reg Middle School - Bethany Campus	Kevin Berean	4025	PT	1	The Clean Drain		
<b>Student(s)</b>					<b>William Livesay</b>	<b>Grade 8</b>	<b>Town</b>	Woodbridge
					<b>Joshua Feuerstein</b>	<b>Grade 8</b>	<b>Town</b>	Woodbridge
					<b>Arnav Paliwal</b>	<b>Grade 8</b>	<b>Town</b>	Woodbridge

\* TurnKey Compliance Solutions Environmental Awards --- \$200 Cash Award Middle School- For excellence in environmental sciences

<b>Bethany</b>	Amity Reg Middle School - Bethany Campus	Kevin Berean	4010	PT	2	Using Nanotechnology to Clean Oil Spills		
<b>Student(s)</b>					<b>Aamnah Malik</b>	<b>Grade 8</b>	<b>Town</b>	Woodbridge
					<b>Kathleen Inclima</b>	<b>Grade 8</b>	<b>Town</b>	Woodbridge

\* National Oceanic and Atmospheric Administration --- Certificate and medallion, and \$25 Amazon gift card given by CSEF

<b>Bethany</b>	Amity Reg Middle School - Bethany Campus	Kevin Berean	5559	P8	1	Vision Shoe		
<b>Student(s)</b>					<b>Shyam Viswanathan</b>	<b>Grade 8</b>	<b>Town</b>	Woodbridge

\* American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF  
 \* IEEE, Connecticut Section --- \$100 Honorable Mention  
 \* ISA - International Society for Automation - Ct. Valley Section --- 2nd - \$75 award  
 \* Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"  
 \* **The Karen J. Howell Middle School Award for "Learning and Serving"**  
 --- The Karen J. Howell Middle School Award for "Learning and Serving" - \$1000

<b>Bethany</b>	Amity Reg Middle School - Bethany Campus	Kevin Berean	5519	P8	1	Extinguish-Bot		
<b>Student(s)</b>					<b>Weiss Yuan</b>	<b>Grade 8</b>	<b>Town</b>	Woodbridge

\* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF  
 \* Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF  
 \* American Society of Safety Engineers, CT Valley Chapter --- \$100 grade 7-8 project

<b>Bethel</b>	Bethel High School	Ray Turek	6086	PS	2	Synthetic Turf Infill Engineering		
<b>Student(s)</b>					<b>Rachel Salvador</b>	<b>Grade 12</b>	<b>Town</b>	Bethel

\* American Society for Metals - Hartford Chapter --- \$100 Check

<b>Bozrah</b>	Fields Memorial School	Mrs. E. Brown	5008	P7	1	Orb Characteristics and Containment		
<b>Student(s)</b>					<b>Elijah Ramthun</b>	<b>Grade 7</b>	<b>Town</b>	Bozrah

\* Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Phys Science

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<b>Bozrah</b>	Fields Memorial School	Mrs. Brown	5001	P7	1	Building Tesla Coils		
					<b>Student(s)</b> Lucas Santo	<b>Grade 7</b>	<b>Town</b> Bozrah	
<ul style="list-style-type: none"> <li>* The Children's Museum --- 1 family 4-Pack of Admission Passes to the Children's Museum</li> <li>* Wisner Award --- \$250 cash and plaque</li> </ul>								
<b>Bozrah</b>	Fields Memorial School	Mrs. Brown	5004	P7	1	Environmental Monitoring System for Dog Safety		
					<b>Student(s)</b> Morgan Tainter	<b>Grade 7</b>	<b>Town</b> Gilman	
<ul style="list-style-type: none"> <li>* Society of Women Engineers - Hartford Section --- Scientific Calculator</li> <li>* Connecticut Science Supervisors Association --- \$125 for a middle school project</li> <li>* John B. Trevor Award in Electrical Engineering --- \$500 cash award for an innovative electronic or electrical project</li> </ul>								
<b>Bridgeport</b>	Bridgeport Military Academy	Evanna Dias	6068	PS	3	Fire Resistance		
					<b>Student(s)</b> Evanna Dias	<b>Grade 12</b>	<b>Town</b> Bridgeport	
<ul style="list-style-type: none"> <li>* American Society of Safety Engineers, CT Valley Chapter --- \$150 grade 9-12 project</li> </ul>								
<b>Bridgeport</b>	Bridgeport Regional Aquaculture Center	Kirk Shadle	3076	LS	2	The efficacy of topical ascorbic acid as an inhibitor to mold and bacteria growth		
					<b>Student(s)</b> Cassidy Fawcett	<b>Grade 12</b>	<b>Town</b> Fairfield	
<ul style="list-style-type: none"> <li>* ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card</li> <li>* Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to dinner</li> </ul>								
<b>Bridgeport</b>	Bridgeport Regional Aquaculture Center	Kirk Shadle	3068	LS	2	Predicting the Genomic Pathways of Adaptation In <i>Spartina alterniflora</i> Salt Tolerance Proteins LSD1, EDS1, and PAD4 in Response to Sea Level Rises Via Phylogenetic Trees		
					<b>Student(s)</b> Amanda Hernandez	<b>Grade 12</b>	<b>Town</b> Bridgeport	
<ul style="list-style-type: none"> <li>* Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum</li> </ul>								
<b>Bridgeport</b>	Bridgeport Regional Aquaculture Center	Kirk Shadle	3137	LS	2	The Use of a Hydroxybenzene Group Variant, Grapefruit Seed Extract, as an Alternative Natural Pesticide for Contemporary Chemicals in Modern Agriculture		
					<b>Student(s)</b> Kyle Rosenfeld	<b>Grade 12</b>	<b>Town</b> Fairfield	
<ul style="list-style-type: none"> <li>* ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card</li> </ul>								
<b>Bridgeport</b>	Bridgeport Regional Aquaculture Center	Krik Shadle	6038	PS	2	The Application of Ferrofluid paired with Neodymium Rare Earth Magnets to Reduce Friction.		
					<b>Student(s)</b> Paul Santandrea	<b>Grade 12</b>	<b>Town</b> Fairfield	
<ul style="list-style-type: none"> <li>* University of Connecticut - Physics Department --- UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificat</li> </ul>								

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle

3129	LS	2	Utilizing a Freshwater Bioreactor as an Effective Carbon Dioxide Sequestration Technique				
<b>Student(s)</b> Daniel Schaefer			<b>Grade</b> 12		<b>Town</b> Stratford		

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

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle

6078	PS	2	Evaluation of BMG via tensile strength and hardness after exposure to acidic, basic, and saline conditions				
<b>Student(s)</b> Koe Tsutsumi			<b>Grade</b> 12		<b>Town</b> Stratford		

\* ASM Materials Education Foundation --- Certificate & \$25 gift card to Amazon given by CSEF

**Bridgeport** Bridgeport Regional Aquaculture Center - BCF Kirk Shadle

6024	PS	1	Investigating the Efficacy of Magnesium Nitrate as a Viable Solvent in the Synthesis of 2,5-Dimethylfuran Biofuel				
<b>Student(s)</b> Cole Stearns			<b>Grade</b> 12		<b>Town</b> Fairfield		

\* U.S. Metric Association --- Certificate & \$25 Amazon gift card given by CSEF  
 \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR  
 \* Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a High School student, \$200 cash

**Bridgeport** High Horizons Magnet School Portia Scott-Thiam

2513	L8	2	Hydroponics vs. Fogponics				
<b>Student(s)</b> Rebecca Abirached			<b>Grade</b> 8		<b>Town</b> Bridgeport		

\* Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner  
 \* Southeastern New England Marine Educators --- Outstanding project in aquatic Science \$100 award and membership in SENEME - 1st place Junior and t-shirt

**Bridgeport** High Horizons Magnet School Portia Scott-Thiam

4024	PT	2	Sturdiest of Them All				
<b>Student(s)</b> Kayla Keddo			<b>Grade</b> 8		<b>Town</b> Bridgeport		
<b>Dea'ja Jones</b>			<b>Grade</b> 8		<b>Town</b> Bridgeport		

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

**Bridgeport** Multicultural Magnet School Ms. Ciuflea

5032	P7	1	Natural Power				
<b>Student(s)</b> John Paul Atehortua			<b>Grade</b> 7		<b>Town</b> Bridgeport		

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

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[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Bridgeport</b>	Park City Prep Charter School	Mr. Jonathan Jaekle	2542	L8	1	Larva -B-Gone: A Safer Way To Eliminate The Threat of Zika and Other Mosquito Borne Diseases		
		<b>Student(s) Antonios Boudreau</b>					<b>Grade 8</b>	<b>Town Ansonia</b>
		* Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Life Science						
<b>Bridgeport</b>	Park City Prep Charter School	Jonathan Jeakle	5558	P8	2	Where is the paper airplane?		
		<b>Student(s) Hairo Vivas-Nava</b>					<b>Grade 8</b>	<b>Town Bridgeport</b>
		* American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate						
<b>Bristol</b>	St. Paul Catholic High School	Mr. Aliberti	6047	PS	2	A Weather-Based Autonomous Rainwater Irrigation System		
		<b>Student(s) Kamila Krawczuk</b>					<b>Grade 11</b>	<b>Town New Britain</b>
		* Leask/Francoeur Family Awards --- 1st Place High School- For innovation electrical engineering or computer science - \$200 cash * Connecticut Nurserymen's Foundation, Inc. --- \$200 Cash Award & paid registration to the CT Nursery and Landscape Summer Meeting * Southeastern New England Marine Educators --- Outstanding project in aquatic Science \$100 award and membership in SENEME - 1st place Senior and t-shirt						
<b>Cheshire</b>	Dodd Middle School	Mr. Brian Lopez	5570	P8	2	"Organic Waste : A Renewable Source of a Energy"		
		<b>Student(s) Medha Illindala</b>					<b>Grade 8</b>	<b>Town Cheshire</b>
		* Association for Women Geoscientists --- Certificate, \$25 gift card to Amazon given by CSEF, possible advance to further competition						
<b>Danbury</b>	St. Gregory the Great School	Mrs.Christine Fahey	5003	P7	1	Wind Energy? I'm a Big Fan!		
		<b>Student(s) Anna Flaherty</b>					<b>Grade 7</b>	<b>Town New Fairfield</b>
		* Stanley Lessoff Award for Excellence In Analytical Technique --- \$100 Cash and Plaque						
<b>Danbury</b>	St. Joseph School	Ms. Jabbour	2007	L7	2	The Effects of X-ray Radiation on Yeast		
		<b>Student(s) Conor O'Keefe</b>					<b>Grade 7</b>	<b>Town Danbury</b>
		* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF						
<b>Danbury</b>	St. Joseph School	Miss Jabbour	5561	P8	3	SINGING WINE GLASSES AND BOTTLES		
		<b>Student(s) Shelby Weed</b>					<b>Grade 8</b>	<b>Town Danbury</b>
		* Connecticut Academy of Audiology --- \$150 Award MS- For Excellence in Audiology and Acoustics, opport. to shadow an audiologist						

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Danbury	Westside Middle School Academy	Dr. Frank LaBanca	2514	L8	3	Bacteria Morphology and Concentration in yogurt		
			<b>Student(s)</b>		<b>Jason Campisi</b>	<b>Grade 8</b>	<b>Town</b>	Danbury
* Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner								
Danbury	Westside Middle School Academy	Jonathan Neuhausel	5531	P8	1	The Effects of Different Flours on the Breaking Point and Decomposition Rate of an Edible Spoon.		
			<b>Student(s)</b>		<b>Sahana Chinthak</b>	<b>Grade 8</b>	<b>Town</b>	Danbury
* Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre								
Danbury	Westside Middle School Academy	Mr. Neuhausel	5025	P7	1	A study on soil product following bio degradation of Styrofoam by tenebrio		
			<b>Student(s)</b>		<b>Cassandra Plank Pinho</b>	<b>Grade 7</b>	<b>Town</b>	Danbury
* Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp								
Danbury	Westside Middle School Academy	Mr. Neuhausel	5538	P8	2	Creating an Affordable Homemade Meter to Measure Outdoor Levels of Carbon Dioxide		
			<b>Student(s)</b>		<b>Nicholas Raslavsky</b>	<b>Grade 8</b>	<b>Town</b>	Danbury
* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF								
Darien	Darien High School	David Lewis	3047	LS	3	The Role of Rigosertib Treatment in the Expression and Localization of RASSF1 in RASSF1 Transfected Cancer Cells		
			<b>Student(s)</b>		<b>William Brandon</b>	<b>Grade 12</b>	<b>Town</b>	Darien
* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR								
Darien	Darien High School	Mr. Pratt	6072	PS	2	Finding An Efficient Scalable Gray Water Bioremediation Treatment System		
			<b>Student(s)</b>		<b>Courtney Lowe</b>	<b>Grade 12</b>	<b>Town</b>	Darien
* Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Physical Sciences * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Environmental Science								
Fairfield	Fairfield College Preparatory School	Deborah Kiel	6054	PS	2	The Application of Object Tracking in Surgery Robotics		
			<b>Student(s)</b>		<b>Hanxuan Mo</b>	<b>Grade 12</b>	<b>Town</b>	Fairfield
* U.S. Metric Association --- Certificate & \$25 Amazon gift card given by CSEF								
Fairfield	Fairfield College Preparatory School	Ms. Kiel	3126	LS	1	An investigation into the use of fruit peel filters to reduce the level of water contamination.		
			<b>Student(s)</b>		<b>Jonathan Siveyer</b>	<b>Grade 12</b>	<b>Town</b>	Monroe
* GENIUS Olympiad --- GENIUS Olympiad Competition for 2nd Place HS Future Sustainability								

# Conn. Science & Engineering Fair

## Special Award Winners

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

**Farmington** Irving A. Robbins Middle School Kerry Visone

5530 P8 1 Making concrete more energy efficient and lightweight.

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

- \* Society of Women Engineers - Hartford Section --- Scientific Calculator
- \* GCS Award for Excellence in Transportation Engineering --- \$250 cash and plaque

**Glastonbury** Glastonbury High School Ms. Diane Pintavalle

3035 LS 3 IDENTIFYING SMALL MOLECULE TRANSLATION SYNTHESIS PATHWAY INHIBITORS TARGETING REV1-CT PROTEIN-PROTEIN INTERACTION

**Student(s)** Samantha Chow **Grade** 12 **Town** Glastonbury

- \* Cell Analysis and Modeling Award -Center for Cell Analysis and Modeling at UCHC --- \$100 monetary prize- and Tour of the Cell and Genome Sciences Institute at UCONN Health Center

**Glastonbury** Glastonbury High School Diane Pintavalle

3083 LS 2 Analysis of Prey Composition in Ninespine Stickleback (*Pungitius pungitius*) Infected With Cestode Parasite (*Schistocephalus pungitii*)

**Student(s)** Mitchell Johnson **Grade** 11 **Town** Glastonbury

- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
- \* Yale Peabody Museum --- One-Year Family Membership to the Yale Peabody Museum

**Glastonbury** Glastonbury High School Diane Pintavalle

3023 LS 2 INTERACTION BETWEEN HDM2 AND THE UBL3 DOMAIN OF USP7

**Student(s)** Soham Kale **Grade** 12 **Town** Glastonbury

- \* Biophysical Society --- Biophysics Award- \$100

**Glastonbury** Glastonbury High School Diane Pintavalle

3042 LS 3 Genomic Analysis of Osteosarcoma to Identify Novel Key Regulatory Pathways in Tumorigenesis

**Student(s)** Samarth Venkata Menta **Grade** 11 **Town** Glastonbury

- \* Cell Analysis and Modeling Award -Center for Cell Analysis and Modeling at UCHC --- \$100 monetary prize- and Tour of the Cell and Genome Sciences Institute at UCONN Health Center

**Glastonbury** Glastonbury High School Mr. Jerome Maas

3100 LS 3 Natural antimicrobials: Alternatives to antibiotics in the control of ear infections

**Student(s)** Athulya Narayanan **Grade** 10 **Town** Glastonbury

- \* Connecticut Academy of Audiology --- \$200 Award HS- For Excellence in Audiology and Acoustics, opport. to shadow an audiologist

**Greens Farms** Greens Farms Academy Mathieu Freeman

3113 LS 2 Anticorrosive Coatings on AZ31 Magnesium Alloy to Reduce Degradation Rate for Metallic Medical Implants

**Student(s)** Anish Kosanam **Grade** 12 **Town** Stamford

- \* U.S. Metric Association --- Certificate & \$25 Amazon gift card given by CSEF
- \* American Society for Metals - Hartford Chapter --- \$100 Check

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

**Greens Farms** Greens Farms Academy Mathieu  
 6076 PS 2 Designing and Implementing a Flexible Support System for the Finger Injury Prevention in High-Impact Sports and Applications

**Student(s)** Charles Thompson **Grade** 12 **Town** Southport

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

**Greenwich** Brunswick School Dana Montanez  
 6083 PS 2 Flow Rate vs. Hydroelectric Kilowatts Produced: A novel approach using Pelton wheels and land-based turbines in an effort to preserve surrounding ecosystems

**Student(s)** Edward Camel **Grade** 11 **Town** Greenwich

\* Yale Science & Engineering Association, Inc. --- Certificate, \$25 gift card to Amazon given by CSEF

**Greenwich** Brunswick School Dana Montanez  
 6102 PS 2 An Investigation of Similarities Between Light Curves of Intrinsic Variable Stars

**Student(s)** Thomas Kimberlin **Grade** 10 **Town** Greenwich

\* Astronomical Society of Greater Hartford --- Senior Project-\$150, subscription to Sky and Telescope magazine and ASGH meeting invitation

**Greenwich** Brunswick School Dana Montanez  
 6044 PS 3 Optimizing Efficiency of Long Distance Tube-And-Pod-Based Low Friction Transportation Systems

**Student(s)** Wesley Peisch **Grade** 11 **Town** Greenwich

\* Intel Excellence in Computer Science Award --- \$200 & certificate  
 \* Barker Mohandas Awards for Transportation Research --- \$200 Cash & Plaque for Excellence in Transportation Related Research- High School

**Greenwich** Brunswick School Dana Montanez  
 3015 LS 2 An Investigation of Natural Alternatives to Chlorine When Treating Microbial-Contaminated Water

**Student(s)** Asher Porphy **Grade** 10 **Town** Harrison

\* Stockholm Junior Water Prize --- Certificate, \$25 gift card to Amazon given by CSEF, possible advance to further competition

**Greenwich** Greenwich Catholic School Mrs.Carol Lutz  
 2012 L7 2 BITE BRIGHT a Natural Tooth Paste

**Student(s)** Monica Marino **Grade** 7 **Town** Riverside

\* Sister Mary Christine Life Sciences Award --- \$100 for excellence in the life sciences by a catholic middle school project  
 \* Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"



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

**Greenwich** Greenwich Catholic School Mrs. Lutz  
 4028 PT 1 A Helping Hand

**Student(s)** **Gianna Saviano** **Grade 8** **Town** Stamford  
**Sofina Tillman Singh** **Grade 8** **Town** Stamford

- \* IEEE, Connecticut Section --- \$250 Honors Award -Junior
- \* John S. Kendall Memorial Awards --- \$300 John S. Kendall Award for Excellence In Mechanical Engineering - Middle School

**Greenwich** Greenwich High School Andrew Bramante  
 6040 PS 1 Application of flexible PVDF nanofibrous membrane coated carbon fiber filter for tunable low cost solvent recycling

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

- \* TurnKey Compliance Solutions Environmental Awards --- \$300 Cash Award High School- For excellence in environmental sciences

**Greenwich** Greenwich High School Andrew Bramante  
 3032 LS 1 Crowd-Sourced Detection and Mapping of Nitrate Water Pollutants via a Mobile Web-Based Image Analysis System

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

- \* American Society for Quality - Thames Valley Section --- \$250 Cash Award
- \* Project Oceanology --- Senior-Identification guide, t-shirt, 1 week residential summer camp

**Greenwich** Greenwich High School Andrew Bramante  
 3074 LS 1 Remediation of Beryllium Heavy Metal via Phaseolus vulgaris Hyperaccumulation

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

- \* GENIUS Olympiad --- GENIUS Olympiad Competition for 2nd Place HS Environmental Project

**Greenwich** Greenwich High School Andrew Bramante  
 3125 LS 1 PDE-4 Inhibitor-Assisted Antibiotic Suppression of Borrelia Biofilm Growth for Treatment of Chronic Lyme

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

- \* Society for In Vitro Biology --- Certificate and \$25 Amazon gift card given by CSEF

**Greenwich** Greenwich High School Mr. Bramante  
 6053 PS 2 Renewable Energy Generation of a Hybridized Saltwater Electrochemical and Hydrokinetic Energy System

**Student(s)** **Bennett Hawley** **Grade 10** **Town** Cos Cob

- \* Constellation, an Exelon Company --- 1st: \$150.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy
- \* IEEE, Connecticut Section --- \$100 Honorable Mention
- \* Mystic Aquarium - Sea Research Foundation --- \$100 and 4 Admission Tickets to Mystic Aquarium

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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**Greenwich** Greenwich High School Andrew Bramante

6074	PS	3	Reliably Jammed Disk Packing: A Novel Feature of a Classic Geometry Problem					
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**Student(s)** Steven Ma **Grade** 11 **Town** Greenwich

- \* Mu Alpha Theta --- Certificate, \$25 Amazon gift card given by CSEF
- \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Mathematics

**Greenwich** Greenwich High School Mr. Bramante

3117	LS	1	Targeted Anticancer Properties of Honey Bee Melittin via Cell Surface Lipid Disruption					
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**Student(s)** Dante Grace Minichetti **Grade** 11 **Town** Greenwich

- \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Cell and Molecular Biology

**Greenwich** Greenwich High School Andrew Bramante

6010	PS	1	Novel Low-Temperature Carbon Capture Using Aqueous Ammonia and Organic Solvents					
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**Student(s)** Ethan Novek **Grade** 12 **Town** Greenwich

- \* ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
- \* MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, high school, \$100 cash award

**Greenwich** Greenwich High School Andy Bramante

6063	PS	1	Carbon Capture and Storage via Silver Nanoparticle Catalyzed Hydration of Carbon Dioxide					
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**Student(s)** Agustina Stefani **Grade** 12 **Town** Greenwich

- \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Chemistry

**Greenwich** Greenwich High School Andrew Bramante

3010	LS	1	Rapid Colorimetric Field Monitoring System for Zika Virus in Mosquito Populations via DNAzyme-Functionalized Gold Nanoparticles					
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**Student(s)** Rahul Subramaniam **Grade** 10 **Town** Cos Cob

- \* Bob Harris Fix It Award --- \$75 and Certificate for ingenuity in using material and tools

**Greenwich** Greenwich High School Andrew Bramante

3086	LS	1	Detection of Premalignant Pancreatic Cancer via Computational Analysis of Serum Proteomic Profiles					
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**Student(s)** Shobhita Sundaram **Grade** 11 **Town** Greenwich

- \* American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF
- \* Intel Excellence in Computer Science Award --- \$200 & certificate
- \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Computer Science

**Greenwich** Greenwich High School Mr. Andrew Bramante

6033	PS	2	A Novel N-Doped Carbon Nanotube/Copper Electrode for the Reduction of CO <sub>2</sub> to Biofuel					
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**Student(s)** Michelle Woo **Grade** 11 **Town** Riverside

- \* The Connecticut Technology Council Young Woman Innovation Award --- \$150 Cash Award for Technological Innovation
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for 2nd Place HS Alternative/Renewable Energy Project

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Greenwich</b>	Greenwich High School	Andrew Bramante	6015	PS	1	Development of a CNT/ZnO/TiO <sub>2</sub> membrane for visible-light induced photocatalytic filtration of water-borne organic and bacterial pollutants		
			<b>Student(s)</b>		<b>Michelle Xiong</b>	<b>Grade</b>	<b>11</b>	<b>Town</b> Riverside
<ul style="list-style-type: none"> <li>* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR</li> <li>* Stockholm Junior Water Prize --- Certificate, \$25 gift card to Amazon given by CSEF, possible advance to further competition</li> <li>* Society of Women Engineers - Hartford Section --- Scientific Calculator</li> <li>* Coherent, Inc. Richard Hart Award for Excellence in Photonics --- \$300 cash, plaque, invitation to lunch and tour Coherent factory</li> </ul>								
<b>Groton</b>	Sacred Heart School	Larry Fitzgerald, Principal	5536	P8	2	INDUCED LEVITATION AND MOVEMENT APPLYING LENZ'S LAW		
			<b>Student(s)</b>		<b>Michael Luzzio</b>	<b>Grade</b>	<b>8</b>	<b>Town</b> Groton
<ul style="list-style-type: none"> <li>* IEEE, Connecticut Section --- \$100 Honorable Mention</li> <li>* Barker Mohandas Awards for Transportation Research --- \$100 Cash &amp; Plaque for Excellence in Transportation Related Research- Middle School</li> <li>* Bob Harris Fix It Award --- \$75 and Certificate for ingenuity in using material and tools</li> </ul>								
<b>Hamden</b>	Hamden High School	Sophia Michalatos	3092	LS	3	Caffeine's Effect on Anxiety in Teens		
			<b>Student(s)</b>		<b>Zoe Bassett</b>	<b>Grade</b>	<b>10</b>	<b>Town</b> Hamden
<ul style="list-style-type: none"> <li>* American Psychological Association --- Certificate, \$25 gift card to Amazon given by CSEF</li> </ul>								
<b>Hamden</b>	Hamden Middle School	Michelle DeLucia	5545	P8	1	Constructing a CoreXY Dual Extrusion Fused Filament Fabrication Apparatus		
			<b>Student(s)</b>		<b>Conner Larocque</b>	<b>Grade</b>	<b>8</b>	<b>Town</b> Hamden
<ul style="list-style-type: none"> <li>* U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate</li> <li>* IEEE, Connecticut Section --- \$100 Honorable Mention</li> </ul>								
<b>Hamden</b>	Sacred Heart Academy	Elizabeth Christophy	6067	PS	1	Computer-Aided Bleeding Detection in Wireless Capsule Endoscopy Images Using Deep Convolutional Neural Networks		
			<b>Student(s)</b>		<b>Eunji Lee</b>	<b>Grade</b>	<b>11</b>	<b>Town</b> Trumbull
<ul style="list-style-type: none"> <li>* Intel Excellence in Computer Science Award --- \$200 &amp; certificate</li> <li>* Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics</li> </ul>								
<b>Hamden</b>	Sacred Heart Academy	Mrs. Susan Nelson	3108	LS	2	Heat from Global Warming Affecting Bioluminescence in Pyrocystis fusiformis		
			<b>Student(s)</b>		<b>Julianna Milidantri</b>	<b>Grade</b>	<b>9</b>	<b>Town</b> Durham
<ul style="list-style-type: none"> <li>* Sister Mary Christine Life Sciences Award --- \$150 for excellence in the life sciences by a catholic high school project</li> <li>* Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum</li> </ul>								

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

**Hamden** Sacred Heart Academy Dr. Sibani Sengupta  
 3142 LS 2 Adherence Rates of Escherichia coli to Mono-filament, Multi-filament, and Barbed Sutures  
**Student(s) Adalyn Schommer** **Grade 9** **Town** Cheshire

\* Society for In Vitro Biology --- Certificate and \$25 Amazon gift card given by CSEF

**Hartford** Environmental Sciences Magnet School at Mary Rebecca Hays  
 2534 L8 1 The Effects of Food on Breeding Xiphophorus Hellerii  
**Student(s) Natalie Reeves** **Grade 8** **Town** Southington

\* Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum

**Hartford** Sport and Medical Sciences Academy Christine Demusz  
 5508 P8 1 Natural Plastic: Milk Plastic Biodegradation vs. Commercial Plastic Degradation  
**Student(s) Madison Lee** **Grade 8** **Town** Rocky Hill

- \* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- \* Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related
- \* Urban School Challenge 1st Place Middle School Awards --- Highest Placing 8th grader- GENIUS-Olympiad Competition -\$500 travel stipend
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project

**Hebron** Oei Homeschool Ellen McHugh  
 5537 P8 1 Developing a Prototype Atmospheric Water Generator System as a Clean, Safe and Sustainable Water Source  
**Student(s) John Oei** **Grade 8** **Town** Hebron

- \* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- \* Ct Architecture Foundation Award Name: The William M. Mack, AIA Award --- \$250 Gift Certificate to Barnes and Noble from the Connecticut Architecture Foundation, William M. Mack, AIA Award.
- \* Society of Women Engineers - Hartford Section --- Scientific Calculator

**Kensington** St. Paul School Ms. Michalak  
 5012 P7 2 It is Rocket Science  
**Student(s) Jack Szeghy** **Grade 7** **Town** Southington

\* American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate

**Lakeville** The Hotchkiss School Richard Kyung  
 6030 PS 2 A New Fast Algorithm for Finding Eigenvalues in Vibrating Structures  
**Student(s) Seouk Jun Kim** **Grade 11** **Town** Lakeville

- \* ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
- \* Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

# Conn. Science & Engineering Fair

## Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Madison</b>	Walter Polson Middle School	Anna Chang	5571	P8	2	Multi-color CCD photometry of the variable star Delta Cephei using a home-built six inch reflecting telescope		
	<b>Student(s)</b>	<b>Aimee Chang</b>					<b>Grade 8</b>	<b>Town</b> Madison
	* Astronomical Society of Greater Hartford --- Junior Project-\$100, subscription to Sky and Telescope magazine and ASGH meeting invitation							
<b>Meriden</b>	ACES Thomas Edison Middle School	Todd Solli	4014	PT	3	Fats In Cooking Oils		
	<b>Student(s)</b>	<b>Ariana Alston</b>					<b>Grade 7</b>	<b>Town</b> Meriden
		<b>Selena Galvan</b>					<b>Grade 7</b>	<b>Town</b> Meriden
	* Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner							
<b>Meriden</b>	ACES Thomas Edison Middle School	Todd Solli	5554	P8	2	The Relationship Between Aerodynamic Shape and Wind Drag		
	<b>Student(s)</b>	<b>Kaya Cook</b>					<b>Grade 8</b>	<b>Town</b> Middletown
	* Constellation, an Exelon Company --- 2nd: \$50.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy							
	* Connecticut College-Physics, Astronomy, & Geophysics Dept. --- \$150 and certificate, Junior Physics & teeshirt							
<b>Meriden</b>	St. Joseph School	Tim Coleman	2015	L7	2	Secret Life of Trees on Sweet Birch Dr.		
	<b>Student(s)</b>	<b>Dylan Gay</b>					<b>Grade 7</b>	<b>Town</b> Meriden
	* NYUC Pony Club Equine Award --- \$100 Cash Award or excellence in field studies							
<b>Meriden</b>	St. Joseph School	Mr. Coleman	5512	P8	3	What water bottle brand will keep water the coolest.		
	<b>Student(s)</b>	<b>Khalia Hunt</b>					<b>Grade 8</b>	<b>Town</b> Meriden
	* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF							
<b>Middlebury</b>	Memorial Middle School	Allyson Debe	2531	L8	3	Does Intra-articular Hip Steroid Injection Increase The Rate of Infection With Subsequent Total Hip Replacement Surgery?		
	<b>Student(s)</b>	<b>Alexander Kennon</b>					<b>Grade 8</b>	<b>Town</b> Middlebury
	* American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF							
<b>Milford</b>	Platt Technical High School	Mrs. Hart	6522	PST	3	Project W- Domestic water recovery system		
	<b>Student(s)</b>	<b>Christian Haupt</b>					<b>Grade 10</b>	<b>Town</b> West Haven
		<b>Christian Ramos</b>					<b>Grade 10</b>	<b>Town</b> Stratford
	* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Sustainability							

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>New Canaan</b>	St. Aloysius School	deborah phillips	4027	PT	1	Mars Exploration		
<b>Student(s)</b>					<b>Kaloyan Dimitrov</b>	<b>Grade 7</b>	<b>Town</b> Norwalk	
					<b>Andrew Tully</b>	<b>Grade 7</b>	<b>Town</b> Norwalk	
					<b>Alex Lanzillotti</b>	<b>Grade 7</b>	<b>Town</b> Stamford	

\* ISA - International Society for Automation - Ct. Valley Section --- 1st - \$125 award

<b>New Haven</b>	Bruder Homeschool	John Bruder	6051	PS	2	Design, build, and code a cellular/WiFi enabled smart thermostat using a microcontroller and a custom Android app to increase energy efficiency for homes and workplaces.		
<b>Student(s)</b>					<b>Ben Bruder</b>	<b>Grade 10</b>	<b>Town</b> New Haven	

\* ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card  
 \* Zepke Award --- \$200 - For the Best Use of Electronic Circuitry  
 \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Engineering: Electrical

<b>New Haven</b>	Engineering Science University Magnet School	Roger Rushworth	6097	PS	2	Developing a Novel Energy Harvesting Device using Paint-on Fabrication Techniques with Mosz and use of Discardable Materials		
<b>Student(s)</b>					<b>Arya Bairat</b>	<b>Grade 9</b>	<b>Town</b> Milford	

\* ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card  
 \* IEEE, Connecticut Section --- \$250 Honors Award -Senior

<b>New Haven</b>	Engineering Science University Magnet School	Roger Rushworth	2510	L8	2	How do Different Types of Street Lights Impact Our Environment and What is the Safest Way to Illuminate Our Streets?		
<b>Student(s)</b>					<b>Eva Heaphy</b>	<b>Grade 8</b>	<b>Town</b> New Haven	

\* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF  
 \* Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum  
 \* Environmental/ Energy Award- Urban Public School Award --- \$100 Award for top environmental or alternative energy project from a New Haven public school

<b>New Haven</b>	Engineering Science University Magnet School	Heather Toothaker	6005	PS	1	A Novel Rapid Diagnostic Test for Zika Virus NS1 Protein using Nanoribbon Microfluidics		
<b>Student(s)</b>					<b>Lauren Low</b>	<b>Grade 12</b>	<b>Town</b> Hamden	

\* IEEE, Connecticut Section --- \$100 Honorable Mention  
 \* Arthur Mensing Award --- \$1000 cash award for excellence in the physical sciences

<b>New Haven</b>	Wilbur Cross High School	Charlene Woodland	3013	LS	1	Formulation of Gelatin-Hyaluronic Acid Blend Cross-Linked Gels for Potential Tissue Applications: Cost-Effective, Patient Specific, Alternative Treatment of Labral Tears of the Hip		
<b>Student(s)</b>					<b>Sophie Edelstein</b>	<b>Grade 10</b>	<b>Town</b> New Haven	

\* Otero Family Award --- The Otero Family Award; \$200 cash  
 \* Lunch with a Patent Attorney --- Lunch with a Patent Attorney  
 \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Biochemistry

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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**New Haven** Wilbur Cross High School Prof. Joshua Gendron

3151	LS	1	A study of circadian genetics and abiotic stress towards sustainable agriculture					
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<b>Student(s)</b>	<b>Maya Geradi</b>	<b>Grade</b>	<b>11</b>	<b>Town</b>	<b>New Haven</b>
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\* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Microbiology

\* Connecticut Nurserymen's Foundation, Inc. --- \$200 Cash Award & paid registration to the CT Nursery and Landscape Summer Meeting

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

1009	LT	1	Seaweed & Tsunamis					
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<b>Student(s)</b>	<b>Amelia Cox</b>	<b>Grade</b>	<b>7</b>	<b>Town</b>	<b>New Haven</b>
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	<b>Sage Urban</b>	<b>Grade</b>	<b>7</b>	<b>Town</b>	<b>New Haven</b>
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\* National Oceanic and Atmospheric Administration --- Certificate and medallion, ,and \$25 Amazon gift card given by CSEF

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

**New London** Science and Technology Magnet HS David Brown

3123	LS	2	Bacterial Analysis of Kefir Products					
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<b>Student(s)</b>	<b>Yasmin Aguilar</b>	<b>Grade</b>	<b>11</b>	<b>Town</b>	<b>New London</b>
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\* Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to dinner

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

6519	PST	2	The Optimization of a Polycrystalline and Monocrystalline Solar Cell through Effective Cooling in the Form of a Heatsink Transfer System					
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<b>Student(s)</b>	<b>John Burnett</b>	<b>Grade</b>	<b>11</b>	<b>Town</b>	<b>Ledyard</b>
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	<b>Austin Huang</b>	<b>Grade</b>	<b>11</b>	<b>Town</b>	<b>Uncasville</b>
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\* Constellation, an Exelon Company --- 2nd: \$100.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy

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

3103	LS	2	Implicating the Tolerance of Glyphosate on Artemisia Vulgaris					
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<b>Student(s)</b>	<b>Tori Johnston</b>	<b>Grade</b>	<b>11</b>	<b>Town</b>	<b>Waterford</b>
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\* Banning Family Life Science Award --- For excellence in invasive species research, \$100 cash

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

3541	LST	3	The Effect Half and Full Day Illumination Periods Have On Aquaponical and Conventional Methods					
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<b>Student(s)</b>	<b>Xaryia Melendez</b>	<b>Grade</b>	<b>10</b>	<b>Town</b>	<b>Colchester</b>
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	<b>Bria Fielding</b>	<b>Grade</b>	<b>10</b>	<b>Town</b>	<b>New London</b>
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\* Connecticut Science Supervisors Association --- \$125 for a high school project

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

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

3081 LS 2 Effectiveness of American Beach Grass Restoration

**Student(s)** Tessa Rock **Grade** 11 **Town** New London

- \* The Goodwin-Niering Center for the Environment --- \$100 for "Excellence in Environmental Conservation Studies"
- \* Alumni Botany Awards --- Alumni High School Botany Award- \$100 Cash
- \* Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum

**Newtown** St. Rose of Lima School John Dalton

2028 L7 2 THE INVESTIGATION OF ACIDITY ON ZEBRA MUSSEL SHELLS  
 DRIESSENA POLYMORPHA

**Student(s)** Katerina Crowe **Grade** 7 **Town** Southbury

- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF

**Newtown** St. Rose of Lima School John Dalton

2001 L7 1 The Effect of Petroleum Products on the Growth of Ramshorn Snails (Planorbis Rebrum)

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

- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF

**Norwalk** Roton Middle School John Skopp

2524 L8 1 What effect does surface temperature have on fingerprints?

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

- \* Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash

**Orange** Amity Reg Middle School - Orange Campus Mr. Dahn/Foley

5521 P8 2 Silicone-Filled Drumsticks can Reduce Vibration Impact in a Drummer's Hand

**Student(s)** Sebastian Todeasa **Grade** 8 **Town** Orange

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

**Pawcatuck** St. Michael School Mrs. Anna-Helene Grossomanides

2018 L7 1 Hydroponics - A World Without Dirt

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

- \* Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF
- \* University of Connecticut - Physics Department --- UCONN Early College Experience Program: Life Sciences - Co-Op \$100 Gift Certificate

**Pawcatuck** St. Michael School Mrs. Grossomanides

2023 L7 1 Is That Granite Radioactive?

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

- \* Evelyn Brown Award --- Earth Science - Field work with geologic or historic value



# Conn. Science & Engineering Fair

## Special Award Winners

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

**Redding** CT STEM Fair Andrew Bramante  
 6013 PS 2 Optimization of Vertically Aligned Boron Nitride Nanotube Membranes via Magnetic Arrangement in a Lyotropic Precursor for Water Transport Applications

**Student(s)** Connor Li **Grade** 12 **Town** Cos Cob

\* Connecticut Association of Physics Teachers --- \$100 Senior project

**Ridgefield** Ridgefield High School Ryan Gleason  
 3146 LS 2 Analyzing Rhythmic Processing Abilities in Children Ages Five to Fifteen

**Student(s)** Nora Maerean **Grade** 11 **Town** Ridgefield

\* American Psychological Association --- Certificate, \$25 gift card to Amazon given by CSEF

**Shelton** Shelton High School Dr. Rivera  
 6088 PS 2 The Effect of Center of Mass and Center of Pressure Locations of Model Rocket Performance

**Student(s)** Siddharth Jain **Grade** 9 **Town** Shelton

\* John S. Kendall Memorial Awards --- \$500 John S. Kendall Award for Excellence In Mechanical Engineering - High School

**Shelton** Shelton High School Christine McNamara  
 6023 PS 3 Biodegradable Plastic Study to Prevent Oceanic Pollution

**Student(s)** Marissa Peck **Grade** 12 **Town** Shelton

\* ASM Materials Education Foundation --- Certificate & \$25 gift card to Amazon given by CSEF  
 \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR  
 \* Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related

**Shelton** Shelton High School Dr. Rivera  
 6046 PS 1 Cycling Assisted Brake

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

\* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Engineering: Mechanical

**Shelton** Shelton High School Lucia Dunham  
 6002 PS 3 Hot Glass

**Student(s)** Jacob Zuklie **Grade** 11 **Town** Shelton

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

**Shelton** Shelton Intermediate School Denise Fix  
 5023 P7 1 Sneaker Feature

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

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

# Conn. Science & Engineering Fair

## Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Southington</b>	J.A. DePaolo Middle School	Ms. Shea	5026	P7	1	Snap Crackle Pop		
						<b>Student(s) Morgan Birdsey</b>	<b>Grade 7</b>	<b>Town Southington</b>
								* Henderson Award --- Certificate and \$25 Amazon Gift Card given by CSF
<b>Stamford</b>	Bi-Cultural Day School	Christopher Graseck	1002	LT	1	Is "non-toxic" dish detergent safe for the environment?		
						<b>Student(s) Brandon King</b>	<b>Grade 7</b>	<b>Town Stamford</b>
						<b>Ori Divon</b>	<b>Grade 7</b>	<b>Town Stamford</b>
								* Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash
<b>Stamford</b>	Bi-Cultural Day School	Christopher Graseck	2025	L7	2	An Analysis of Nitrogen and Phosphate Fertilizer on Algae Growth		
						<b>Student(s) Anna Lichtenberg</b>	<b>Grade 7</b>	<b>Town Stamford</b>
								* Project Oceanology --- Junior-Identification guide, t-shirt, 1 week residential summer camp * Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash
<b>Storrs</b>	EO Smith High School	Cheryl Granger	3044	LS	2	Patterns in the Overall Performance of Baseball Players at Different Positions		
						<b>Student(s) Alexander Chandy</b>	<b>Grade 10</b>	<b>Town Storrs</b>
								* American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF
<b>Stratford</b>	St. Mark School	Ms. Lynn Olins	2005	L7	1	"Watts" the efficiency of solar cells?		
						<b>Student(s) Kaitlyn Szczepanski</b>	<b>Grade 7</b>	<b>Town Stratford</b>
								* U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate
<b>Suffield</b>	Suffield High School	Mitchell Charkiewicz	3012	LS	3	Self Defogging Ski Goggles		
						<b>Student(s) Ryan Cleaves</b>	<b>Grade 12</b>	<b>Town Canton</b>
								* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
<b>Suffield</b>	Suffield High School	Mitchell Charkiewicz	6027	PS	3	A Novel Approach to Measuring Reaction Times in a Simulated Driving Environment		
						<b>Student(s) Caitlin Kirschbaum</b>	<b>Grade 12</b>	<b>Town Suffield</b>
								* American Society of Safety Engineers, CT Valley Chapter --- \$150 grade 9-12 project
<b>Suffield</b>	Suffield High School	Mitchell Charkiewicz	6073	PS	3	A Small Spectrometer to Find Peanut Ingredients in Food.		
						<b>Student(s) Zachariah Service</b>	<b>Grade 11</b>	<b>Town Suffield</b>
								* ISA - International Society for Automation - Ct. Valley Section --- 3rd - \$50 award

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

**Suffield** Suffield Middle School Charkiewicz  
 2511 L8 2 How age affects short term memory

**Student(s) Akshita Jindal Grade 8 Town Suffield**

\* American Psychological Association --- Certificate, \$25 gift card to Amazon given by CSEF

**Trumbull** Christian Heritage School Theresa Miller  
 5555 P8 1 The fabrication and testing of various fruit juice dye-sensitized solar cells with the addition of preservatives

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

\* MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, middle school, \$100 cash award  
 \* Demos R Us Award --- \$150 Cash Award- Clear Execution of Research

**Trumbull** St. Joseph High School Kevin Green  
 6096 PS 2 Determining Orbital Properties of Eclipsing Binary Stars Through Visual Observations of Variable Brightness

**Student(s) James Bove Grade 11 Town Trumbull**

\* Connecticut College-Physics, Astronomy, & Geophysics Dept. --- \$150 and certificate, Senior Physics & teeshirt

**Waterford** Waterford High School Michael O'Connor  
 3016 LS 2 The Use of Copepods as a Mosquito Control System

**Student(s) Sophie Wang Grade 11 Town Waterford**

\* Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Life Sciences  
 \* University of Connecticut Academic Excellence Scholarship --- Academic Excellence Scholarship - \$6,500 a year for four academic years- (\$26,000 total)  
 \* Fox Pest Control Award for Environmental Management --- \$150 Cash for Excellence in Environmental management

**West Hartford** King Philip Middle School Robert Felekey  
 5038 P7 1 Slip Hazard Alarm Robot--H2OhNobot

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

\* American Society of Safety Engineers, CT Valley Chapter --- \$100 grade 7-8 project  
 \* Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

**West Hartford** St. Brigid-St. Augustine School Donald Fay  
 2505 L8 1 Ecological Refrigerator

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

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

**West Hartford** St. Timothy Middle School Danielle Locke  
 2022 L7 1 Green Tea: A Simple Solution for a Bananas Problem?

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

\* Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School Life Sciences

# Conn. Science & Engineering Fair

## Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Weston</b>	Weston Middle School	Darcy Ronan	2516	L8	3	Homemade RC Plane		
<b>Student(s) Matthew Krauss</b>					<b>Grade 8</b>	<b>Town Weston</b>		
* U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate								
<b>Wilton</b>	Middlebrook Middle School	Jessica Garcia	2504	L8	1	A Novel Method for Oil Spill Cleanup Using Biomass		
<b>Student(s) Anika Bhagavatula</b>					<b>Grade 8</b>	<b>Town Wilton</b>		
* Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF								
* National Oceanic and Atmospheric Administration --- Certificate and medallion, ,and \$25 Amazon gift card given by CSEFF								
* Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"								
<b>Windsor</b>	Academy of Aerospace and Engineering	Michelle Bellinger	6098	PS	1	Effects of Concentration and Cooling Rate on Microstructural and Macroscopic Properties of Tin-Zinc Binary Alloys		
<b>Student(s) Jay Aindow</b>					<b>Grade 12</b>	<b>Town Tolland</b>		
* ASM Materials Education Foundation --- Certificate & \$25 gift card to Amazon given by CSEF								
* American Society for Metals - Hartford Chapter --- \$100 Check								
<b>Windsor</b>	Academy of Aerospace and Engineering	Dr. Michelle Bellinger	6019	PS	2	The effect of adding a second polymer to polyethylene terephthalate on the mechanical properties and morphology of the polymer blend systems		
<b>Student(s) Nikhil Bhat</b>					<b>Grade 12</b>	<b>Town Rocky Hill</b>		
* Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre								
<b>Windsor</b>	Greater Hartford Academy of Math and Science	Dr. Lili Aramlli	3002	LS	2	The Effect of Collect Nutrient Powder on Mus Musculus Lewis Lung Carcinoma Cell Confluence, Viability and Growth Rate		
<b>Student(s) Marissa Guzzo</b>					<b>Grade 11</b>	<b>Town Suffield</b>		
* Society for In Vitro Biology --- Certificate and \$25 Amazon gift card given by CSEF								
<b>Windsor</b>	Greater Hartford Academy of Math and Science	Dr. Lili Aramli	3131	LS	3	Viability of Cloud-Bacteria Transportation		
<b>Student(s) Jason Vailionis</b>					<b>Grade 12</b>	<b>Town Rocky Hill</b>		
* Mu Alpha Theta --- Certificate, \$25 Amazon gift card given by CSEF								
<b>Windsor</b>	Madina Academy	Saqib Chariwala	6516	PST	1	Converting Grass into Cellulosic Ethanol to Generate Energy as a Heating System		
<b>Student(s) Radeyah Ahmed</b>					<b>Grade 10</b>	<b>Town Bloomfield</b>		
<b>Jareen Choudhury</b>					<b>Grade 11</b>	<b>Town Bloomfield</b>		
* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Energy & Transportation								

# Conn. Science & Engineering Fair

## Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>Windsor</b>	Madina Academy	Saqib Chariwala	4013	PT	2	Light Intensity and Photosynthesis: How different colors of light and their intensities affect photosynthesis?		
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<b>Student(s)</b>	<b>Sakinah Caesar</b>	<b>Grade 7</b>	<b>Town</b> Simsbury
	<b>Sheza Chaudhry</b>	<b>Grade 7</b>	<b>Town</b> Windsor Locks

\* Association for Women Geoscientists --- Certificate & \$25 gift card to Amazon given by CSEF

<b>Windsor</b>	Madina Academy	Saqib Chariwala	4020	PT	1	Investigating Novel Methods of Generating Electricity Using a Double Plated Magnetic Generator with Springs Compared to a Miniature Axial Rounded Tip Tidal Stream Generator		
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<b>Student(s)</b>	<b>AlYaman Zoghlo</b>	<b>Grade 8</b>	<b>Town</b> Enfield
	<b>Ahmad Mohammed</b>	<b>Grade 8</b>	<b>Town</b> Windsor

\* Constellation, an Exelon Company --- 1st: \$100.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy

<b>Woodbridge</b>	Amity Regional High School	Deborah Day	6093	PS	2	Designing a Protective Cap To Reduce Impact Force and Head Trauma		
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<b>Student(s)</b>	<b>Quinnlan Burke</b>	<b>Grade 11</b>	<b>Town</b> Woodbridge
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\* American Society of Safety Engineers, CT Valley Chapter --- \$150 grade 9-12 project

<b>Woodbridge</b>	Amity Regional High School	Ms. Day	3135	LS	2	Correlations Between Specific Gut Flora and Different Body Mass Type Changes		
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<b>Student(s)</b>	<b>Jacob Feuerstein</b>	<b>Grade 10</b>	<b>Town</b> Woodbridge
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\* Mu Alpha Theta --- Certificate, \$25 Amazon gift card given by CSEF

<b>Woodbridge</b>	Amity Regional High School	Deborah Day	6510	PST	2	Analysis and Proving of "Cycloid" Universe Using Friedmann Equations and Torsion Cosmology		
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<b>Student(s)</b>	<b>Kelsey McCormack</b>	<b>Grade 12</b>	<b>Town</b> Orange
	<b>Himay Dharani</b>	<b>Grade 12</b>	<b>Town</b> Orange

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

<b>Woodbridge</b>	Amity Regional High School	Deborah Day	6080	PS	2	Comparing the efficiency of water-filtering materials and developing an affordable, effective, water filtration system for the developing world		
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<b>Student(s)</b>	<b>Julia Todeasa</b>	<b>Grade 10</b>	<b>Town</b> Orange
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\* J.A. Augustine Award --- \$100 for excellence in physical sciences

<b>Woodbridge</b>	Ezra Academy	Rebecca Tishkoff	5523	P8	1	Tracking the movements of a human being.		
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<b>Student(s)</b>	<b>Ethan Lavi</b>	<b>Grade 8</b>	<b>Town</b> Woodbridge
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\* Jon Stone Memorial Award --- \$150 cash for Innovative Engineering