



# Connecticut Science & Engineering Fair

## Quinnipiac University

### March 12 - 17, 2018

### 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	Talcott Mountain Academy	Mr. Meredith	5030	P7	3	Black Holes - The Insatiable Hunger		
			<b>Student(s)</b>		<b>Alexandros Cooke-Politikos</b>	<b>Grade 7</b>	<b>Town</b>	<b>Avon</b>

\* 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>		<b>Brendan Glastris</b>	<b>Grade 8</b>	<b>Town</b>	<b>Burlington</b>

\* Connecticut Academy of Audiology --- \$150 Award MS- For Excellence in Audiology and Acoustics, opport. to shadow an audiologist

Avon	Talcott Mountain Academy	Lydia Gibb	2516	L8	2	Got Your Back		
			<b>Student(s)</b>		<b>Emma Ruccio</b>	<b>Grade 8</b>	<b>Town</b>	<b>Southington</b>

\* 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

Bethany	Amity Reg Middle School - Bethany Campus	Kevin Berean	5534	P8	3	The Rolling Cane		
			<b>Student(s)</b>		<b>Michael Coyne</b>	<b>Grade 8</b>	<b>Town</b>	<b>Woodbridge</b>

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

Bethany	Amity Reg Middle School - Bethany Campus	Kevin Berean	4015	PT	1	Preventing SIDS From Suffocation		
			<b>Student(s)</b>		<b>Ellina Medovnikov</b>	<b>Grade 8</b>	<b>Town</b>	<b>Woodbridge</b>
					<b>Audrey Marin</b>	<b>Grade 8</b>	<b>Town</b>	<b>Woodbridge</b>

\* Spirit of Invention Award --- \$100 Cash and Plaque for Inventive Concepts

Bethel	Bethel High School	Mr. Turek	6049	PS	3	Lowering SLS Costs with Preexisting Solid Rocket Boosters		
			<b>Student(s)</b>		<b>Ryan Lemone</b>	<b>Grade 10</b>	<b>Town</b>	<b>Bethel</b>

\* 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>		<b>Anna Kopec</b>	<b>Grade 7</b>	<b>Town</b>	<b>Bethel</b>

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

# Conn. Science & Engineering Fair

## Special Award Winners

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

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**Bethel** St. Mary School Kate McDonald  
5025 P7 2 Reusable Hand Warmer Magic

**Student(s)** Kayla O'Marra **Grade 7** **Town** Bethel

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

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**Bethel** St. Mary School Kate McDonald  
2506 L8 3 New Creature in the Sea.

**Student(s)** Magdalena Swierczek **Grade 8** **Town** Danbury

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

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**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

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\* 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

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

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

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\* 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

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**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

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\* 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

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**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

**Student(s)** Alia Aguilar **Grade 12** **Town** Monroe

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

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[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle  
 3036 LS 2 Development of a Mucin Based Biomedical Adhesive Gel

**Student(s)** Brian Duffy **Grade** 12 **Town** Fairfield

- \* 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  
 6023 PS 1 Development of a Portable, Kinetic Driven, Ozone Based Water Purification System for Application in Disaster Relief

**Student(s)** Jamielyn Iquina **Grade** 12 **Town** Stratford

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

**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  
 3031 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

- \* 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

- \* 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

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

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Bridgeport</b>	Fairchild Wheeler Magnet High School	Paul Bergquist	6026	PS	3	Extinguishing fire with sound		
	<b>Student(s)</b> Kenny Pineda						<b>Grade 10</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> <li>* ISA - International Society for Automation - Ct. Valley Section --- 1st - \$125 award</li> </ul>							
<b>Bridgeport</b>	Multicultural Magnet School	Corina Ciuflea	2532	L8	2	An Invisible Enemy That Kills		
	<b>Student(s)</b> John Paul Atehortua						<b>Grade 8</b>	<b>Town</b> Bridgeport
	* Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, air pollution related							
<b>Bridgeport</b>	Park City Prep Charter School	Vasiliki Boudreau	5557	P8	3	The Novel Method Of Oil Spill clean up using biomasses		
	<b>Student(s)</b> Alyssa Hall						<b>Grade 8</b>	<b>Town</b> Bridgeport
	* Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF							
<b>Cheshire</b>	St. Bridget School	Mrs. Carroll	2537	L8	1	Transforming Trash Into Treasure: A Sustainable Approach To Oil Spill Cleanup		
	<b>Student(s)</b> Kevin Kathir						<b>Grade 8</b>	<b>Town</b> Cheshire
	<ul style="list-style-type: none"> <li>* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF</li> <li>* Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF</li> <li>* National Oceanic and Atmospheric Administration --- Certificate and medallion, ,and \$25 Amazon gift card given by CSEF</li> <li>* Southeastern New England Marine Educators --- \$100 award and membership in SENEME - 1st Place Junior &amp; T-Shirt</li> <li>* Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related</li> <li>* TurnKey Compliance Solutions Environmental Awards --- \$200 Cash Award Middle School- For excellence in environmental sciences</li> </ul>							
<b>Danbury</b>	Immaculate High School	Mrs. Bridget Henry	6008	PS	2	Effective Catalytic Conversion of Plastic Waste into Fuel		
	<b>Student(s)</b> Elias Haddad						<b>Grade 9</b>	<b>Town</b> Danbury
	<ul style="list-style-type: none"> <li>* MIT Club of Hartford K-12 Initiative --- For excellence in science &amp; technology of energy related research, high school, \$100 cash award</li> <li>* GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Alternative/Renewable Energy Project</li> </ul>							
<b>Danbury</b>	St. Gregory the Great School	Christine Fahey	5034	P7	1	The Efficiency of Different Types of Algae in Creating Self-Sustaining Microbial Fuel Cells		
	<b>Student(s)</b> Max Coisman						<b>Grade 7</b>	<b>Town</b> Danbury
	* The Children's Museum --- 1 family 4-Pack of Admission Passes to the Children's Museum							

[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	4025	PT	1	Wind vs Water		
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<b>Student(s)</b>	<b>Anna Flaherty</b>	<b>Grade 8</b>	<b>Town</b>	New Fairfield
	<b>Arshei Flores</b>	<b>Grade 8</b>	<b>Town</b>	New Milford

- \* 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

<b>Danbury</b>	St. Gregory the Great School	Christine Fahey	2514	L8	1	Bloom of Doom		
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<b>Student(s)</b>	<b>Melanie Seaman</b>	<b>Grade 8</b>	<b>Town</b>	New Fairfield
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- \* 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	Mrs. Reilly	2512	L8	2	Stunted Growth: How Do Cell phones Affect Plant Growth and Can Certain Materials Prevent It?		
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<b>Student(s)</b>	<b>Bronwyn Hyland</b>	<b>Grade 8</b>	<b>Town</b>	New Fairfield
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- \* 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>	Westside Middle School Academy	Jonathon Neuhausel	5527	P8	1	Stormwater Pollution: The Effectiveness of Zeolites in Decreasing Levels of Nitrate in Runoff		
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<b>Student(s)</b>	<b>Paloma Lenz</b>	<b>Grade 8</b>	<b>Town</b>	Danbury
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- \* Association for Women Geoscientists --- Certificate, \$25 gift card to Amazon given by CSEF, possible advance to further competition

<b>Danbury</b>	Westside Middle School Academy	Jonathan Neuhausel	2525	L8	1	Impact of natural and chemical preservatives to extend the shelf life of apple cider.		
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<b>Student(s)</b>	<b>Mathew Mathew</b>	<b>Grade 8</b>	<b>Town</b>	Danbury
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- \* Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to dinner

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

# Conn. Science & Engineering Fair

## Special Award Winners

[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

- \* 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

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

**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

**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

- \* Intel Excellence in Computer Science Award --- \$200 & certificate

**Ellington** Ellington High School Liz Cole

6101 PS 2 A natural cooling system for the last mile of vaccine delivery

**Student(s)** Tina Ma **Grade 11** **Town** Ellington

- \* 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** Fairfield Ludlowe High School Mr. Mirrer

6083 PS 2 Options Pricing Models Using Machine Learning

**Student(s)** Srihita Mediboina **Grade 12** **Town** Fairfield

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

# Conn. Science & Engineering Fair

## Special Award Winners

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

**Fairfield** St. Thomas Aquinas Catholic School Philip Flynn  
 4014 PT 1 Desalination: A Clean Water Alternative

**Student(s)** Andrew Cimmino Grade 7 Town Fairfield  
 Joshua Dixon Grade 7 Town Bridgeport

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

**Fairfield** St. Thomas Aquinas Catholic School PhillipFlynn  
 5018 P7 2 Can a Magnet Clean Up An Oil Spill

**Student(s)** James Cunningham Grade 7 Town Fairfield

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

**Fairfield** St. Thomas Aquinas Catholic School Philip Flynn  
 1006 LT 3 What Whitens your Teeth the Best

**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

**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

\* 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** Smith Middle School Mary Coburn  
 5024 P7 1 Cure For The Blues: A green, low cost adsorbent for removal of dye from aqueous solutions

**Student(s)** Anika Ahilan Grade 7 Town Glastonbury

\* 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

**Student(s)** Conner Calzone Grade 12 Town 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.

**Student(s)** Andrew Chen Grade 12 Town 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.

# Conn. Science & Engineering Fair

## Special Award Winners

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

**Greens Farms** Greens Farms Academy Mrs. Oshin

5036 P7 1 The Traft

**Student(s)** William McGonagle **Grade 7** **Town** Southport

\* 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

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

**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

\* 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

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

**Greenwich** Brunswick School Dana Montanez

3040 LS 2 A comparative analysis of the efficiencies of hydroponic and aeroponic systems

**Student(s)** William McLaren **Grade 10** **Town** Greenwich

\* ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card

**Greenwich** Brunswick School Dana Montanez

3049 LS 3 Use of Regression Analysis to Predict Future Outbreaks of Malaria

**Student(s)** Jamison Meindl **Grade 10** **Town** Riverside

\* 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

**Greenwich** Brunswick School Dana Montanez

6529 PST 2 Harvesting Kinetic Energy from Waves using "See-Saw Floating Arms"

**Student(s)** David Swigart **Grade 10** **Town** Greenwich  
 Philip Chadwell **Grade 10** **Town** Greenwich

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



# Conn. Science & Engineering Fair

## Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Greenwich	Greenwich Catholic School	Lutz	2020	L7	1	Hydrogen Power		
					<b>Student(s)</b>	<b>Sebastian Henao</b>	<b>Grade 7</b>	<b>Town</b> Stamford
* American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF								
Greenwich	Greenwich Catholic School	Mrs. Carol Ann Lutz	5554	P8	3	A SUPERIOR VITAMIN THAT IS ANTI-INFLAMMATORY AND ANTIBACTERIAL "VITAGUMMIES"		
					<b>Student(s)</b>	<b>Monica Marino</b>	<b>Grade 8</b>	<b>Town</b> Riverside
* Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner								
Greenwich	Greenwich Catholic School	Carol Lutz	2517	L8	3	Music Therapy APPLIED		
					<b>Student(s)</b>	<b>Ella Ann Woei</b>	<b>Grade 8</b>	<b>Town</b> Greenwich
* Connecticut Association for the Gifted --- Leonardo Davinci 7-8 Grade \$50 Gift Certificate								
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		
					<b>Student(s)</b>	<b>Hannah Goldenberg</b>	<b>Grade 9</b>	<b>Town</b> Old Greenwich
* 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	3064	LS	1	Biomimetic Degradation of Persistent Pollutants Using Common Wax Worm Sakaiensis Bacteria		
					<b>Student(s)</b>	<b>Bennett Hawley</b>	<b>Grade 11</b>	<b>Town</b> Cos Cob
* 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	Andrew Bramante	6051	PS	1	Magnetically-induced, Visual Detection of Trace Arsenic Contaminants in Water Using Fe3O4 Photonic Crystal Structures		
					<b>Student(s)</b>	<b>Raina Jain</b>	<b>Grade 10</b>	<b>Town</b> Greenwich
* GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Environmental Project								

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

**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

**Student(s)** Joe Konno **Grade** 11 **Town** Greenwich

\* 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

**Student(s)** Alexander Kosyakov **Grade** 11 **Town** Riverside

\* 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

**Student(s)** Nicholas Liu **Grade** 11 **Town** Greenwich

\* 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

**Greenwich** Greenwich High School Andrew Bramante  
 3035 LS 2 Autonomously Killing Cancerous Cells by the Detection of up to Single Nucleotide Mutations

**Student(s)** Collin Marino **Grade** 11 **Town** Greenwich

\* The Jackson Laboratory --- \$1,000 - The Jackson Laboratory Award for Excellence in Genomics Related Research

**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

**Student(s)** Romano Orlando **Grade** 12 **Town** Greenwich

\* 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

**Student(s)** Armstrong Park **Grade** 11 **Town** Riverside

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

[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

**Student(s)** Rahul Subramaniam **Grade** 11 **Town** Cos Cob

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

**Greenwich** Greenwich High School Andrew Bramante  
 6079 PS 1 Ambient Carbon Dioxide Capture and Purified Gas Release Using Asphalt-Waste Derived, Porous Carbon Filtration

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

\* 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

**Student(s)** Nicholas Woo **Grade** 11 **Town** Greenwich

\* 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

**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

\* 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)

**Hamden** Sacred Heart Academy Sibani Sengupta  
 3052 LS 2 Insights into cellular reprogramming: a computational biology approach.

**Student(s)** Kelly Frier **Grade** 11 **Town** Middlefield

\* Sister Mary Christine Life Sciences Award --- \$150 for excellence in the life sciences by a catholic high school project

# Conn. Science & Engineering Fair

## Special Award Winners

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

**Hartford** Environmental Sciences Magnet School at Mary Mrs. Hays  
 2022 L7 2 Memorizing With Music

**Student(s)** Maria Amisano **Grade** 7 **Town** East Granby

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

**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

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

**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

\* 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

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

**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

\* 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

# Conn. Science & Engineering Fair

## Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>New Canaan</b>	St. Aloysius School	Deborah Phillips	5012	P7	2	More Water, Less Carbon.		
					<b>Student(s)</b>	<b>Jackson Saucedo</b>	<b>Grade 7</b>	<b>Town</b> Darien
* American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF								
<b>New Haven</b>	Betsy Ross Arts Magnet School	Mrs Macdonald	5539	P8	1	Hovercraft		
					<b>Student(s)</b>	<b>Kaylee Fitzgerald</b>	<b>Grade 8</b>	<b>Town</b> Naugatuck
* U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate								
<b>New Haven</b>	Betsy Ross Arts Magnet School	Roisin Macdonald	5011	P7	1	From Biomass To Biogas		
					<b>Student(s)</b>	<b>Matilda Pethrick</b>	<b>Grade 7</b>	<b>Town</b> Stratford
* 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								
<b>New Haven</b>	Wilbur Cross High School	Nick Farrell & Joseph Zebrowski	3059	LS	1	Do rewards affect neuro-electrical resistance?		
					<b>Student(s)</b>	<b>Carlin Eswarakumar</b>	<b>Grade 11</b>	<b>Town</b> New Haven
* American Psychological Association --- Certificate, \$25 gift card to Amazon given by CSEF								
* IEEE, Connecticut Section --- \$100 Honorable Mention								
<b>New Haven</b>	Worthington Hooker Middle School	Mr. Jones	2010	L7	1	Underwater Battle:The Effect of Pollution on Brine Shrimp		
					<b>Student(s)</b>	<b>Athena Brown</b>	<b>Grade 7</b>	<b>Town</b> New Haven
* 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								
<b>New Haven</b>	Worthington Hooker Middle School	Douglas Jones	5553	P8	2	Burning Calories: What's in Your Breakfast?		
					<b>Student(s)</b>	<b>Katherine Van Tassel</b>	<b>Grade 8</b>	<b>Town</b> New Haven
* Demos R Us Award --- \$150 Cash Award- Clear Execution of Research								
<b>New London</b>	Bennie Dover Jackson Middle School	Willie Barber	5507	P8	3	Green Step		
					<b>Student(s)</b>	<b>Jennifer Fiestas</b>	<b>Grade 8</b>	<b>Town</b> New London
* Constellation, an Exelon Company --- 2nd: \$50.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy								

# Conn. Science & Engineering Fair

## Special Award Winners

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

**Newtown** Newtown Middle School Jeffery Shupp  
 2521 L8 2 Design and Testing of a Chitin-based Filter for Bio-remediation of Nitrates

**Student(s)** Marguerite LaBanca **Grade 8** **Town** Sandy Hook

\* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF  
 \* Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner

**Norwich** Norwich Technical High School Jesse Morin  
 3516 LST 2 Evaluating an LCHAD Deficiency Model System Created Using CRISPR/Cas9 and C. elegans

**Student(s)** Courtney Michaud **Grade 12** **Town** Norwich  
 Kyle Tempesta **Grade 12** **Town** Uncasville

\* Connecticut Science Supervisors Association --- \$125 for a high school project

**Norwich** Norwich Technical High School Chris Porto  
 6506 PST 3 Research and construction of a Tesla Coil.

**Student(s)** Michael Reid **Grade 12** **Town** Lebanon  
 Matthew Cloutier **Grade 12** **Town** Hanover

\* IEEE, Connecticut Section --- \$100 Honorable Mention  
 \* Wisner Award --- \$250 cash and plaque

**Norwich** 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?

**Student(s)** Gianpierre Roche **Grade 12** **Town** Willimantic

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

**Norwich** Norwich Technical High School Ernest Todd  
 6510 PST 2 Robotic Hand

**Student(s)** Aaron Steendam **Grade 11** **Town** Canterbury  
 Justin Relaz **Grade 11** **Town** Norwich

\* Zepke Award --- \$125 - For the Best Use of Electronic Circuitry- Senior High

**Pawcatuck** 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?

**Student(s)** Molly Kulick **Grade 7** **Town** Mystic

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

**Redding** CT STEM FAIR - Amity Regional High School Deborah Day  
 3024 LS 2 The Effect of Misophonia on Selective Attention Control

**Student(s)** Hannah Rappaport **Grade 12** **Town** 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

# Conn. Science & Engineering Fair

## Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Redding</b>	Joel Barlow High School	Dr. Katherine Nuzzo	3013	LS	2	Effects of Soil Composition on the Decline of Fraxinus americana		
					<b>Student(s)</b>	<b>Sean Mullin</b>	<b>Grade 11</b>	<b>Town</b> Redding
* Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum								
<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 12</b>	<b>Town</b> Ridgefield
* Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum								
<b>Shelton</b>	Shelton High School	Lucia Dunham	6062	PS	3	Pumping Iron		
					<b>Student(s)</b>	<b>Spencer Hatfield</b>	<b>Grade 10</b>	<b>Town</b> Shelton
* American Society for Metals - Hartford Chapter --- \$100 Check								
<b>Shelton</b>	Shelton Intermediate School	Ms. Genova	5518	P8	2	Sneaker Feature 2		
					<b>Student(s)</b>	<b>Sofia Gasbarro</b>	<b>Grade 8</b>	<b>Town</b> 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								
<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. Linn Olins	5032	P7	3	Rust-Acidity (How do different levels of acid rain affect some kinds of iron?)		
					<b>Student(s)</b>	<b>Elizabeth Long</b>	<b>Grade 7</b>	<b>Town</b> Milford
* American Society for Metals - Hartford Chapter --- \$100 Check								
<b>Stratford</b>	St. Mark School	Mrs. Olins	5540	P8	1	Are you a 'fan' of wind turbines?		
					<b>Student(s)</b>	<b>Kaitlyn Szczepanski</b>	<b>Grade 8</b>	<b>Town</b> Stratford
* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF								

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>Suffield</b>	Suffield High School	Mitchell Charkiewicz	6089	PS	3	The Anti-Overdose Pill Bottle Stemming the Opiod Epidemic		
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**Student(s) Ziad Hassan** **Grade 11** **Town** Suffield

\* Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre  
 \* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2018 Invention Convention, April 28

<b>Suffield</b>	Suffield High School	Mitchell Charkiewicz	6060	PS	3	A Novel Health Monitoring System		
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**Student(s) Akshita Jindal** **Grade 9** **Town** Suffield

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

<b>Suffield</b>	Suffield High School	Mitchell Charkiewicz	3529	LST	2	The Impact of Physical Activity on Human Reaction Time.		
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**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

<b>Trumbull</b>	Christian Heritage School	Daniel Cote	5531	P8	1	D.I.Y. Hovercraft: Lift and Propulsion		
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**Student(s) Maxwell Barbagallo** **Grade 8** **Town** Sandy Hook

\* John S. Kendall Memorial Awards --- \$300 John S. Kendall Award for Excellence In Mechanical Engineering - Middle School

<b>Trumbull</b>	Christian Heritage School	Daniel Cote	6020	PS	3	The Design of a Self-Funding Heating System		
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**Student(s) Miles Meade** **Grade 11** **Town** Shelton

\* Westinghouse Electric Company/New England Chapter of North American Young Generation in Nuclear --- 1st place, Excellence in Energy Research, \$100 cash award

<b>Trumbull</b>	Christian Heritage School	Theresa Miller	5510	P8	1	Aqua-Safe: Helping the World, One Bucket at a Time		
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**Student(s) Alec Mota** **Grade 8** **Town** Derby

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

<b>Trumbull</b>	Christian Heritage School	Daniel Cote	6054	PS	3	Carbon Emission-Free Power Generation Using Wave Energy and a Robust Generator		
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**Student(s) Ranita Muriel** **Grade 11** **Town** Shelton

\* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Sustainability  
 \* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2018 Invention Convention, April 28



# Conn. Science & Engineering Fair

## Special Award Winners

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

**Trumbull** Christian Heritage School Daniel Cote  
 5549 P8 3 The Effect of Temperature on Lift Decay in Helium Balloons

**Student(s) Nathan Nagel** **Grade 8** **Town** Trumbull

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

**Trumbull** St. Joseph High School Shannon Calvert  
 6034 PS 3 Measuring Stellar Parallax of 61 Cygni

**Student(s) James Bove** **Grade 12** **Town** Trumbull

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

**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

\* Mu Alpha Theta --- Certificate, \$25 Amazon gift card given by CSEF  
 \* IEEE, Connecticut Section --- \$250 Honors Award -Senior

**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

\* 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  
 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

**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

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

**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

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

[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

\* 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

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

**Westport** Staples High School Karen Thompson

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

\* 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

**Wilton** Middlebrook School Kendra Norman

5003	P7	2	Power Walking with Piezoelectricity
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**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)
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**Student(s)** Varun Vadhera **Grade 7** **Town** Wilton

\* IEEE, Connecticut Section --- \$250 Honors Award -Junior  
 \* Zepke Award --- \$100 - For the Best Use of Electronic Circuitry- Middle School

**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.
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**Student(s)** Srikar Godilla **Grade 11** **Town** Newington

Cristian Rodriguez **Grade 11** **Town** East Hartford

\* 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

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

**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. Bellinger  
 6533 PST 2 Combinations of Polyethylene Glycol and Silica Nanoparticles as a Dilatant on Shock Absorption and Unequal Shear Transfer Rate

**Student(s)** **Nicolas McMahon** **Grade 10** **Town** Windsor  
**Emily Ngo** **Grade 10** **Town** South Windsor

\* Garg Consulting Services Award for Excellence in Transportation Engineering --- \$250 cash and plaque

**Windsor** 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

**Student(s)** **Chris Rinaldi** **Grade 11** **Town** Enfield  
**Jean Pasato** **Grade 11** **Town** Middletown  
**Vishakh Talanki** **Grade 11** **Town** South Windsor

\* 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.

**Windsor** Academy of Aerospace and Engineering Dr. Michelle Bellinger  
 6066 PS 2 Undulated Leading-Edge Airfoils in Low to Medium Reynolds Number Regime

**Student(s)** **Keshav Vedula** **Grade 12** **Town** Windsor

\* 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

**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

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

**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

# Conn. Science & Engineering Fair

## Special Award Winners

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

**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

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

**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

**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

\* 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

\* 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 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

\* 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  
 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

# Conn. Science & Engineering Fair

## Special Award Winners

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