



# Connecticut Science & Engineering Fair

## Quinnipiac University

### March 10 - 14, 2015

### 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)
<b>Avon</b>	Talcott Mountain Academy	Alyson Tockstein	2026	L7	1	Killing Blackspot: An Organic Struggle		
			<b>Student(s)</b>		<b>Julia Hoffman</b>	<b>Grade 7</b>	<b>Town</b>	Windsor
<ul style="list-style-type: none"> <li>Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF</li> </ul>								
<b>Avon</b>	Talcott Mountain Academy	Ms. Tockstien	2537	L8	2	The Antimicrobial Properties of Papaya		
			<b>Student(s)</b>		<b>Zachary Waskowicz</b>	<b>Grade 8</b>	<b>Town</b>	Southington
<ul style="list-style-type: none"> <li>Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner</li> </ul>								
<b>Bethany</b>	Amity Reg Middle School, Bethany Campus	Mr. Kevin Berean	4033	PT	1	BabyBot: Creating a Robot to Soothe a Crying Infant		
			<b>Student(s)</b>		<b>Neha Sudhir</b>	<b>Grade 8</b>	<b>Town</b>	Woodbridge
					<b>Rosie Du</b>	<b>Grade 8</b>	<b>Town</b>	New Haven
					<b>Allison Fischman</b>	<b>Grade 8</b>	<b>Town</b>	Woodbridge
<ul style="list-style-type: none"> <li>Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School, Physical Sciences</li> </ul>								
<b>Bethany</b>	Amity Reg Middle School, Bethany Campus	Kevin Berean	4017	PT	1	The Sensing Cane		
			<b>Student(s)</b>		<b>Kate Yuan</b>	<b>Grade 8</b>	<b>Town</b>	Woodbridge
					<b>Catalina Betancur</b>	<b>Grade 8</b>	<b>Town</b>	Woodbridge
<ul style="list-style-type: none"> <li>American Society of Safety Engineers, CT Valley Chapter --- \$100 grade 7-8 project</li> <li>ISA - International Society for Automation --- 2nd - \$75 award</li> </ul>								
<b>Bozrah</b>	Fields Memorial School	Evelyn Brown	5507	P8	1	Music Metrics and Fractals: Analyzing Different Genres of Digitized Music to Identify Input Metrics for Programming Fractal Representations of the Music with Mathematica		
			<b>Student(s)</b>		<b>Genevieve Buckridge</b>	<b>Grade 8</b>	<b>Town</b>	Bozrah
<ul style="list-style-type: none"> <li>Connecticut Association for the Gifted --- Leonardo Davinci 7-8 Grade \$50 Gift Certificate</li> <li>Stanley Lessoff Award for Excellence In Analytical Technique --- \$100 Cash and Plaque</li> </ul>								
<b>Bozrah</b>	Fields Memorial School	Evelyn Brown	5502	P8	1	Water Filtration and Flocculation Methods		
			<b>Student(s)</b>		<b>Rebecca Ramthun</b>	<b>Grade 8</b>	<b>Town</b>	Bozrah
<ul style="list-style-type: none"> <li>Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF</li> <li>Demos R Us Award --- \$150 Cash Award- Clear Execution of Research</li> </ul>								

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Bozrah</b>	Fields Memorial School	Mrs. E. Brown	5023	P7	1	Which Variables Affect The Flight Of A Rocket?		
			<b>Student(s)</b>		<b>Brendan Toth</b>	<b>Grade 7</b>	<b>Town</b>	<b>Bozrah</b>
<ul style="list-style-type: none"> <li>● Talcott Mountain Science Center --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Life Science</li> <li>● American Institute of Aeronautics &amp; Astronautics - Connecticut Section --- \$200 award, certificate</li> <li>● American Society for Quality - Thames Valley Section --- \$250 Cash Award</li> </ul>								
<b>Bozrah</b>	Fields Memorial School	Evelyn Brown	5515	P8	2	Measurement of Tensile Strength of Various Wet & Dry Woods		
			<b>Student(s)</b>		<b>Abigail Tracy</b>	<b>Grade 8</b>	<b>Town</b>	<b>Gilman</b>
<ul style="list-style-type: none"> <li>● ASM Materials Education Foundation --- Certificate &amp; \$50 gift card to Amazon given by CSEF</li> <li>● American Society for Metals - Hartford Chapter --- \$100 Check</li> </ul>								
<b>Bridgeport</b>	Bridgeport Regional Aquaculture School	Mr. Kirk Shadle	3052	LS	1	The Analysis of Clay Flocculation's Effect on the Benthic Zone Used as a Mitigation Technique for Harmful Algal Blooms (HABs)		
			<b>Student(s)</b>		<b>Julia Ennis</b>	<b>Grade 12</b>	<b>Town</b>	<b>Fairfield</b>
<ul style="list-style-type: none"> <li>● Stockholm Junior Water Prize --- Certificate, \$50 gift card to Amazon given by CSEF, possible advance to further competition</li> </ul>								
<b>Bridgeport</b>	Bridgeport Regional Aquaculture School	Mr. Shadle	3118	LS	1	Development of Non-toxic Photostabilized Phycoerythrin for Application in Dye Sensitized Solar Cells		
			<b>Student(s)</b>		<b>Eunsun Hong</b>	<b>Grade 12</b>	<b>Town</b>	<b>Shelton</b>
<ul style="list-style-type: none"> <li>● University of New Haven High School Awards in Engineering &amp; Science --- \$100 For High School Project in Biochemistry</li> </ul>								
<b>Bridgeport</b>	Bridgeport Regional Aquaculture School	Mr. Kirk Shadle	3073	LS	1	Determining the Effect of Biofouling on a Restocking System for Homarus americanus		
			<b>Student(s)</b>		<b>Shana Isidoro</b>	<b>Grade 12</b>	<b>Town</b>	<b>Monroe</b>
<ul style="list-style-type: none"> <li>● Mystic Aquarium --- \$100 and 4 Admission Tickets to Mystic Aquarium</li> </ul>								
<b>Bridgeport</b>	Bridgeport Regional Aquaculture School	Mr. Kirk P. Shadle	3040	LS	1	Utilizing Piscivorous Birds as Low-Impact Primary Biological Indicators		
			<b>Student(s)</b>		<b>Sophie Kay</b>	<b>Grade 12</b>	<b>Town</b>	<b>Fairfield</b>
<ul style="list-style-type: none"> <li>● Project Oceanology --- Individual - Book + 2 tickets, First Place Senior, check for \$100, t-shirt</li> <li>● Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum</li> </ul>								
<b>Bridgeport</b>	Bridgeport Regional Aquaculture School	Mr. Shadle	6066	PS	1	Biochar Electrodes Incorporated with Cuprous Oxide Substrates to Optimize Solar Cells' Efficiency		
			<b>Student(s)</b>		<b>Nicolas Santandrea</b>	<b>Grade 12</b>	<b>Town</b>	<b>Fairfield</b>
<ul style="list-style-type: none"> <li>● ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2016 Sustainability Solutions Festival and \$50 Gift Card</li> </ul>								

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

**Bridgeport** Fairchild Wheeler Magnet High School L.Ciocci

3053 LS 2 The Efficiency of Bivalve Mollusk Filter Feeding in the Long Island Sound

**Student(s)** Elijah Rodriguez **Grade** 9 **Town** Stratford

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

**Bridgeport** Multicultural Magnet School Mr. Walter Mayorga

5555 P8 2 Powerful Propellers

**Student(s)** Abigail Cloud **Grade** 8 **Town** Bridgeport

- Society of Women Engineers - Hartford Section --- Scientific Calculator
- John S. Kendall Memorial Award --- \$300 John S. Kendall Award for Excellence In Mechanical Engineering - Middle School

**Bridgeport** Park City Prep Charter School Vicky Boudreau

5001 P7 2 BOBS (Baby on Board) System

**Student(s)** Johann Warren **Grade** 7 **Town** Bridgeport

- American Society of Safety Engineers, CT Valley Chapter --- \$100 grade 7-8 project
- Bob Harris Fix It Award --- \$100 and Certificate for ingenuity in using material and tools

**Bristol** St. Paul Catholic High School Mr Alberti

6076 PS 2 Novel Approches of Making Human to Robot Interaction Possible for the Handicapped.

**Student(s)** Kamila Krawczuk **Grade** 9 **Town** New Britain

- Intel Excellence in Computer Science Award --- \$200 & certificate
- Leask/Francoeur Family Awards --- Award for excellence and innovation in electrical engineering or computer science - \$200 cash

**Cheshire** Cheshire High School Casey King

3072 LS 1 Development of a Prescient Warning Model for Cholera Utilizing an Epedmiological Identification of Risk Factors

**Student(s)** Shangda Xu **Grade** 11 **Town** Cheshire

- 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

**Danbury** Westside Middle School Academy Jonathan Neuhausel

5551 P8 1 UV-C Lighting As A Supplemental Method Of Preservation In Refrigerators To Reduce Energy Consumption

**Student(s)** Christopher Hwang **Grade** 8 **Town** Danbury

- Ricoh Corporation/Society for Science & the Public --- Certificate, Lapel Pin,\$50 gift card to Amazon given by CSEF

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

5030 P7 1 Opening a Garage Door with Raspberry Pi

**Student(s)** Sarah Johnson **Grade** 7 **Town** Danbury

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

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

**Darien** Darien High School David Lewis  
 3134 LS 3 Ambiguous Beats: Using EEG to measure how movement influences rhythmic processing in young infants

**Student(s)** Sonia Gandhi **Grade** 12 **Town** Darien

- Connecticut Academy of Audiology --- \$150 Cash Award High School- For Excellence in Audiology and Acoustics

**East Lyme** East Lyme High School Lewis Tucker  
 3017 LS 2 Clinical application of 3D printing technology in cancer radiation therapy: A novel method to improve dose conformity with patient specific treatment aid device

**Student(s)** Du Chen **Grade** 11 **Town** Niantic

- Education Connection- Center for 21st Century Skills Awards --- \$100 For innovative use of technology to advance science or engineering

**Fairfield** Fairfield College Preparatory School Mrs. Kiel  
 3095 LS 1 How Grey Oyster Mushrooms Can Be Used To Break Down Oil And Reduce Waste In The Environment.

**Student(s)** Jonathan Siveyer **Grade** 10 **Town** Monroe

- Stockholm Junior Water Prize --- Certificate, \$50 gift card to Amazon given by CSEF, possible advance to further competition

**Fairfield** St. Thomas Aquinas Catholic School Philip Flynn  
 2533 L8 2 Food & Texture: Does seeing the food affect your liking a food that has changed from its original texture?

**Student(s)** Conor Landry **Grade** 8 **Town** Fairfield

- United States Public Health Service --- Certificate & \$50 Amazon gift card given by CSEF & medallion

**Falls Village** Lee H. Kellogg School Joseph Markow  
 5040 P7 3 Effectiveness of Fertilizer Application Techniques in Reducing Fertilizer Runoff and Pollution

**Student(s)** Jenna Luz **Grade** 7 **Town** Falls Village

- Association for Women Geoscientists --- Certificate & \$50 gift card to Amazon given by CSEF

**Fishers Island** Fishers Island School Mrs. Giles  
 3119 LS 2 Assessing Changes in Growth Rate of the American Lobster Under Different Environmental Stressors as Modeled by the Red Swamp Crayfish

**Student(s)** Elias Kane **Grade** 11 **Town** Groton

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

**Fishers Island** Fishers Island School Carol Giles  
 3041 LS 2 Remediating Rivalry?

**Student(s)** Mackenzie Switz **Grade** 11 **Town** Stonington

- The Goodwin-Niering Center for the Environment --- \$100 for "Excellence in Environmental Conservation Studies"

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Glastonbury</b>	Glastonbury High School	Ms. Pintavalle	6027	PS	2	Financially Superior Energy Source for Subterranean Inhabitants		
			<b>Student(s)</b>		<b>Ashley Gartland</b>	<b>Grade 11</b>		<b>Town</b> Glastonbury
<ul style="list-style-type: none"> <li>● ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2016 Sustainability Solutions Festival and \$50 Gift Card</li> <li>● Connecticut Architecture Foundation --- \$250 Gift Certificate to Barnes and Noble from the Connecticut Architecture Foundation, William M. Mack, AIA Award.</li> </ul>								
<b>Glastonbury</b>	Glastonbury High School	Dr. Ali Bazzi	6068	PS	1	Evaluation of Several Resonant Power Electronic Converters in Capacitively Coupled Wireless Energy Transmitters		
			<b>Student(s)</b>		<b>Paul Han</b>	<b>Grade 11</b>		<b>Town</b> Glastonbury
<ul style="list-style-type: none"> <li>● Mu Alpha Theta --- Certificate, \$50 gift card to Amazon given by CSEF</li> <li>● IEEE, Connecticut Section --- \$250 Honors Award -Senior</li> <li>● John B. Trevor Award in Electrical Engineering --- \$500 cash award for an innovative electronic or electrical project</li> <li>● University of New Haven High School Awards in Engineering &amp; Science --- \$100 For High School Project in Engineering: Electrical</li> </ul>								
<b>Glastonbury</b>	Glastonbury High School	Diane Pintavalle	3106	LS	2	Differences in the measurements and numbers of nuclear pores and nuclear pore complexes in wildtype stem cell lines and Huntington's Disease stem cell lines		
			<b>Student(s)</b>		<b>Kanika Malani</b>	<b>Grade 11</b>		<b>Town</b> Glastonbury
<ul style="list-style-type: none"> <li>● Mu Alpha Theta --- Certificate, \$50 gift card to Amazon given by CSEF</li> </ul>								
<b>Glastonbury</b>	Glastonbury High School	Diane Pintavalle	3054	LS	2	Preparation and Comparison of EGCG-Loaded PLGA and Cellulose Acetate Microparticles for Osteoarthritis Treatment		
			<b>Student(s)</b>		<b>Anubhuti Mathur</b>	<b>Grade 12</b>		<b>Town</b> Glastonbury
<ul style="list-style-type: none"> <li>● Biophysical Society --- Biophysics Award- \$100</li> </ul>								
<b>Glastonbury</b>	Glastonbury High School	Ms. Pintavalle	3005	LS	1	Investigating Inhibitors of Dihydrofolate Reductase Enzymes of Streptococcus pyogenes and Staphylococcus aureus		
			<b>Student(s)</b>		<b>Sara Tavakoli</b>	<b>Grade 11</b>		<b>Town</b> Glastonbury
<ul style="list-style-type: none"> <li>● University of New Haven High School Awards in Engineering &amp; Science --- \$100 For High School Project in Microbiology</li> </ul>								
<b>Glastonbury</b>	Smith Middle School	Mary Coburn	5029	P7	1	Sound Barriers: How does the type of material affect the amount of sound that carries through a surface?		
			<b>Student(s)</b>		<b>Arjun Ahilan</b>	<b>Grade 7</b>		<b>Town</b> Glastonbury
<ul style="list-style-type: none"> <li>● Connecticut Academy of Audiology --- \$150 Cash Award Middle School- For Excellence in Audiology and Acoustics</li> </ul>								

# Conn. Science & Engineering Fair

## Special Award Winners

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

**Greens Farms** Greens Farms Academy Dr.Freeman  
 6039 PS 1 Optimization of Reflectivity of GaN for Solar Applications

**Student(s)** Matthew Lichtenberg **Grade** 11 **Town** Satmford

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

**Greenwich** Brunswick School Dana Montanez  
 6067 PS 2 Efficient Soundproofing: Design of a System using Multiple Technologies

**Student(s)** Tucker Calcano **Grade** 10 **Town** Greenwich

- American Society of Safety Engineers, CT Valley Chapter --- \$150 grade 9-12 project

**Greenwich** Brunswick School Dana Montanez  
 6511 PST 1 A Feasibility Study of Portable, Ground-Based Ice-Penetrating Radar to Resolve Cartography Deficiencies.

**Student(s)** Ryan Callaghan **Grade** 11 **Town** Wilton  
 Alessandro Mariani **Grade** 11 **Town** Greenwich

- IEEE, Connecticut Section --- \$250 Honors Award -Junior

**Greenwich** Brunswick School Dana Montanez  
 6051 PS 2 Revolutionizing A 16th Century Product For The Modern World: A Thermoelectric Chair That Creates Energy From The Human Touch

**Student(s)** Angus Fraser **Grade** 11 **Town** Darien

- Yale Science & Engineering Association, Inc. --- Certificate, \$50 gift card to Amazon given by CSEF
- University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Energy & Transportation

**Greenwich** Brunswick School Dana Montanez  
 6023 PS 2 A Comparative Analysis of Rotating Solar Cubes vs. Horizontal Solar Arrays

**Student(s)** William Gorman **Grade** 10 **Town** Bedford

- U.S. Coast Guard Research and Development Center --- Summer internship to conduct research aboard ship or at a USCG base + \$50 Amazon Gift Card given by CSEF. ALTERNATE 2

**Greenwich** Brunswick School Dana Montanez  
 6085 PS 2 Creation of a Fresnel Lens Array for use in Water Purification

**Student(s)** John Stefanou **Grade** 10 **Town** Old Greenwich

- Stockholm Junior Water Prize --- Certificate, \$50 gift card to Amazon given by CSEF, possible advance to further competition

# Conn. Science & Engineering Fair

## Special Award Winners

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

**Greenwich** Central Middle School Ms. Bresler

5514 P8 1 Substitution of Metals in a Salt-Water Engine to Increase Energy-Efficiency

**Student(s)** Bennett Hawley **Grade 8** **Town** Cos Cob

- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF
- Constellation - An Excelon Company --- For Excellence in clean renewable / sustainable energy - Grades 7 & 8
- IEEE, Connecticut Section --- \$100 Honorable Mention
- MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, middle school, \$100 cash award
- American Society for Metals - Hartford Chapter --- \$50 Check

**Greenwich** Convent of the Sacred Heart Mary Musolino

3517 LST 2 DNA Barcoding of Invasive Species on a Suburban Campus

**Student(s)** Madeline Henrie **Grade 11** **Town** Stamford

Katherine Siciliano **Grade 11** **Town** Stamford

Lillian Pura **Grade 11** **Town** Greenwich

- Sister Mary Christine Life Sciences Award --- \$250 and plaque for excellence in the life sciences by a catholic high school project
- Banning Family Life Science Award --- For excellence in invasive species research, \$100 cash

**Greenwich** Greenwich Catholic School Carol Lutz

1025 LT 2 Survive with Salt Water

**Student(s)** Daniel Mabes **Grade 7** **Town** Greenwich

Nicholas Cotaj **Grade 7** **Town** Stamford

Terrence McGrath **Grade 7** **Town** Stamford

- National Oceanic and Atmospheric Administration --- Certificate and medallion, and \$50 gift card to Amazon given by CSEF

**Greenwich** Greenwich High School Andy Bramante

3020 LS 1 Effective Optimization of Biogas Production through Alpha-Amylase Utilization

**Student(s)** Bryce Anderson **Grade 11** **Town** Cos Cob

- Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related

**Greenwich** Greenwich High School Andrew Bramante

6095 PS 1 Novel Creation of a versatile, low-cost water purification system via a graphene oxide-TiO2 composite membrane with incorporated electrified nanostructures

**Student(s)** Sophie Bardos **Grade 11** **Town** Riverside

- University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Environmental Science
- Fox Pest Control Award for Environmental Management --- \$150 Cash for Excellence in Environmental Management
- Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre



[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Greenwich</b>	Greenwich High School	Andrew Bramante	6015	PS	1	Synthesis of an Electromagnetically-Controlled Corn-Starch/PVA Biopolymer Microstructure for Extended and Targeted Drug Delivery		
			<b>Student(s)</b>		<b>Margaret Cirino</b>	<b>Grade</b>	<b>10</b>	<b>Town</b> Greenwich
<ul style="list-style-type: none"> <li>● U.S. Metric Association --- Certificate &amp; \$50 gift card to Amazon given by CSEF</li> <li>● Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate1</li> </ul>								
<b>Greenwich</b>	Greenwich High School	Mr. Andrew Bramante	3009	LS	2	Novel Ultrasonic-Induced Antibiotic Deterioration of Borrelia Biofilms for the Treatment of Chronic Lyme Disease		
			<b>Student(s)</b>		<b>Sophia Ertel</b>	<b>Grade</b>	<b>12</b>	<b>Town</b> Old Greenwich
<ul style="list-style-type: none"> <li>● Connecticut Science Supervisors Association --- \$125 for a high school project</li> <li>● The Connecticut Technology Council Young Woman Innovation Award --- \$150 Cash Award for Technological Innovation</li> </ul>								
<b>Greenwich</b>	Greenwich High School	Andy Bramante	3096	LS	1	Temperature-Independent, Portable, and Rapid Field Detection of Ebola via a Silk-Derived Lateral-Flow System		
			<b>Student(s)</b>		<b>Olivia Hallisey</b>	<b>Grade</b>	<b>10</b>	<b>Town</b> Greenwich
<ul style="list-style-type: none"> <li>● Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate &amp; invitation to present at CT Invention Convention as "CIC Next Step Inventors"</li> </ul>								
<b>Greenwich</b>	Greenwich High School	Andy Bramante	3114	LS	1	A Novel Antibody-Functionalized Graphene Transistor Lab-On-A-Chip for Selective Detection of Malaria Pathogens		
			<b>Student(s)</b>		<b>Paul Hansel</b>	<b>Grade</b>	<b>11</b>	<b>Town</b> Old Greenwich
<ul style="list-style-type: none"> <li>● Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash</li> </ul>								
<b>Greenwich</b>	Greenwich High School	Andrew Bramante	3049	LS	2	Targeted Release of Moringa oleifera Cationic Proteins from Starch-g-poly (sodium acrylate-co-HEMA) Hydrogels for the Remediation of Aqueous Polychlorinated Biphenyls		
			<b>Student(s)</b>		<b>Vijay Kadiyala</b>	<b>Grade</b>	<b>11</b>	<b>Town</b> Old Greenwich
<ul style="list-style-type: none"> <li>● ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2016 Sustainability Solutions Festival and \$50 Gift Card</li> </ul>								
<b>Greenwich</b>	Greenwich High School	Andrew Bramante	3092	LS	3	Enhancement of antibiotic effects on various species of bacterium via infusion of silver nanoparticles		
			<b>Student(s)</b>		<b>Andrew Lim</b>	<b>Grade</b>	<b>11</b>	<b>Town</b> Old Greenwich
<ul style="list-style-type: none"> <li>● Society for In Vitro Biology --- Certificate and \$50 gift card to Amazon given by CSEF</li> <li>● University of Connecticut - Physics Department --- UCONN Early College Experience Program: Life Sciences - Co-Op \$100 Gift Certificate</li> </ul>								



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

**Greenwich** Greenwich High School Andrew Bramante  
 6090 PS 2 The effect of application of a solenoid on the magnetic properties of gadolinium at varying temperatures and current levels.

**Student(s)** Max Marcussen **Grade** 11 **Town** Riverside

- University of Connecticut - Physics Department --- UCONN Physics Department - Co-Op \$100 Gift Certificate

**Greenwich** Greenwich High School Mr. Andrew Bramante  
 6005 PS 1 An Optically Self-Healing Metallo-Supramolecular Polymer Encapsulated UV-NIR Organic Solar Cell for Transparent Energy-Harvesting and Electronic Skin Applications

**Student(s)** Maxmillian Minichetti **Grade** 12 **Town** Greenwich

- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate
- American Society of Safety Engineers, CT Valley Chapter --- \$150 grade 9-12 project
- Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

**Greenwich** Greenwich High School Andrew Bramante  
 6101 PS 1 Low Grade Waste Heat Recovery and Carbon Sequestration using an Innovative Reverse Electrodialysis (RED) and Pressure Retarded Osmosis (PRO) System

**Student(s)** Ethan Novak **Grade** 10 **Town** Greenwich

- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate
- 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 Andrew Bramante  
 6026 PS 2 Investigation of a Bacteriorhodopsin-Pt/TiO2 Hybrid System for Enhanced Nanophotocatalytic Production of Hydrogen

**Student(s)** Mark Stich **Grade** 11 **Town** Greenwich

- Yale Science & Engineering Association, Inc. --- Certificate, \$50 gift card to Amazon given by CSEF

**Greenwich** Greenwich High School Andrew Bramante  
 6087 PS 1 Application of Manganese-Based Ionic Liquid for Optimized Performance of Non-aqueous / Aqueous Redox Flow Batteries

**Student(s)** Nicholas Szabo **Grade** 11 **Town** Glenville

- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate

**Greenwich** Greenwich High School Mr. Andrew Bramante  
 3110 LS 1 Hybridized Manganese Dioxide & Gold-Iron Oxide Nanoparticle Inhibition of Tumor Growth via Radiosensitization and Tumor Microenvironment Control

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

- Otero Family Award --- The Otero Family Award; \$200 cash

**Hamden** Hamden Middle School Mr. Martins  
 5530 P8 1 What's Shaking? - A Study of Soil Liquefaction

**Student(s)** Andrew Larocque **Grade** 8 **Town** Hamden

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

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<b>Hamden</b>	Hamden Middle School	Mr. Danny Martins	1009	LT	2	Bridge Strength		
		<b>Student(s)</b>						
		<b>Madeleine Malin</b>					<b>Grade 8</b>	<b>Town</b> Hamden
		<b>Ava Albis</b>					<b>Grade 8</b>	<b>Town</b> Hamden
		<ul style="list-style-type: none"> <li>● Connecticut Science Supervisors Association --- \$125 for a middle school project</li> </ul>						
<b>Hamden</b>	Hamden Middle School	Andrew Marzano	4023	PT	2	Wind Power: How the Shape of the Blade Affects the amount of Power Produced.		
		<b>Student(s)</b>						
		<b>Ingrid Schwarz</b>					<b>Grade 8</b>	<b>Town</b> Hamden
		<b>Quennie Callanta</b>					<b>Grade 8</b>	<b>Town</b> Hamden
		<ul style="list-style-type: none"> <li>● American Meteorological Society --- Certificate &amp; \$50 Amazon gift card given by CSEF</li> </ul>						
<b>Hamden</b>	Sacred Heart Academy	Mrs. Nelson	3055	LS	2	The Effects of Grey Water on the Germination Rate and Growth of a Variety of Grass Species.		
		<b>Student(s)</b>						
		<b>Laura Mocchiola</b>					<b>Grade 9</b>	<b>Town</b> Shelton
		<ul style="list-style-type: none"> <li>● Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Life Sciences</li> <li>● Connecticut Nurserymen's Foundation, Inc. --- \$200 Cash Award &amp; paid registration to the CT Nursery and Landscape Summer Meeting</li> </ul>						
<b>Hamden</b>	Sacred Heart Academy	Dr. Sibani Sengupta	6512	PST	2	Using Plants to Reduce Atmospheric Carbon Dioxide		
		<b>Student(s)</b>						
		<b>Jennifer Piciw</b>					<b>Grade 11</b>	<b>Town</b> Shelton
		<b>Mitali Bandyopadhyay</b>					<b>Grade 11</b>	<b>Town</b> Farmington
		<ul style="list-style-type: none"> <li>● Connecticut Nurserymen's Foundation, Inc. --- \$200 Cash Award &amp; paid registration to the CT Nursery and Landscape Summer Meeting</li> </ul>						
<b>Hartford</b>	Academy of Aerospace and Engineering	Dr. Lili Aramli	3059	LS	2	Honey as an Antibacterial Agent		
		<b>Student(s)</b>						
		<b>Alec Bernardi</b>					<b>Grade 11</b>	<b>Town</b> Tolland
		<ul style="list-style-type: none"> <li>● Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner</li> </ul>						
<b>Hartford</b>	Environmental Sciences Magnet School at Mary	Kirsten Devlin	2544	L8	1	Fruit Fly Fatality		
		<b>Student(s)</b>						
		<b>Hunter Rego</b>					<b>Grade 8</b>	<b>Town</b> Winsted
		<ul style="list-style-type: none"> <li>● Fred Bailey Memorial Award --- \$250 for innovative research- Hartford Urban Middle School Project</li> </ul>						
<b>Hartford</b>	Greater Hartford Academy of Math & Science	Dr. Aramli	3039	LS	3	Zeolite Zaps Cancer Cells		
		<b>Student(s)</b>						
		<b>Jacqueline Klepinger</b>					<b>Grade 11</b>	<b>Town</b> Wethersfield
		<ul style="list-style-type: none"> <li>● University of Connecticut Academic Excellence Scholarship --- Academic Excellence Scholarship - \$5000 a year for each of four academic years- \$20,000 total</li> </ul>						

# Conn. Science & Engineering Fair

## Special Award Winners

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

**Hartford** Greater Hartford Academy of Math & Science Dr. Lili Aramli  
 3077 LS 2 Exploration into the Effects of Anti-PAR2 Antibody on the Expression of CUX-1 Related Metabolic Pathways and Apoptosis of Mouse Breast Cancer Cells

**Student(s)** Leon Novak **Grade** 11 **Town** Rocky Hill

- Society for In Vitro Biology --- Certificate and \$50 gift card to Amazon given by CSEF

**Hartford** University High School of Sci & Eng Michael Fromerth  
 3098 LS 1 A Self-Sustaining Electrical Shoe Insert for Treatment of Diabetic Neuropathy

**Student(s)** Gabriel Mesa **Grade** 9 **Town** Canton

- Fred Bailey Memorial Award --- \$250 for innovative research- Hartford Urban High School Project
- Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

**Hebron** RHAM High School Kristin Spinelli  
 3515 LST 2 Manure to Methane

**Student(s)** Taylor Brysgel **Grade** 9 **Town** Marlborough  
 Darren Lin **Grade** 9 **Town** Marlborough

- NYUC Pony Club Equine Award --- \$50 Cash Award or excellence in equine studies

**Madison** Daniel Hand High School Madhuparna Roychoudhury  
 6064 PS 1 Power generation via downdraft of humidified dry air

**Student(s)** Ankita Roychoudhury **Grade** 10 **Town** Madison

- University of Connecticut - Physics Department --- UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificat
- Westinghouse Electric Company/New England Chapter of North American Young Generation in Nuclear --- 1st place, Excellence in Energy Research, \$100 cash award
- David and Torrey Fenton Awards --- For creative work in the physical sciences- high school; \$200 cash

**Madison** Daniel Hand High School Madhuparna Roychoudhury  
 6062 PS 1 Ferromagnetism: Using ferromagnetic fluid to control prosthetics

**Student(s)** Shayan Roychoudhury **Grade** 12 **Town** Madison

- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate
- University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Engineering: Mechanical

**Milford** St. Gabriel School Campbell  
 5051 P7 2 Which Bridge Design Is Best?

**Student(s)** Griffin Congdon **Grade** 7 **Town** Milford

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

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

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

2535 L8 2 Optimizing Methane Oxidation by Methanotrophs Through the Engineering Application of Different Environments

**Student(s)** Jacob Feuerstein **Grade 8** **Town** Woodbridge

- Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related

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

2521 L8 3 Electric Energy Production In A Bio-fuel Cell For Varying Electrogenic Microbial Samples

**Student(s)** Sumanth Kondapalli **Grade 8** **Town** Milford

- Environmental/Energy Award-Urban Public School Award --- For the highest scoring environmental protection or alternate energy project by a New Haven Public School student.

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

5528 P8 1 Efficiency of Piezoelectric Materials for Electric Production

**Student(s)** Prastik Mohanraj **Grade 8** **Town** Ansonia

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

**New London** Science & Technology Magnet HS of SE CT Charles Mulligan

3521 LST 3 The Effect of pH Levels in Presoaking Liquids on Fruit Dehydration Duration

**Student(s)** Brynn Doughty **Grade 10** **Town** Ledyard  
 Leslie Abreu **Grade 10** **Town** New London

- Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to dinner

**New London** Science & Technology Magnet HS of SE CT Charles Mulligan

3108 LS 3 The Effects of Different Environments on the Germination of Radish Seeds

**Student(s)** Samantha Spreca **Grade 10** **Town** New London

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

**Newington** Martin Kellogg Middle School Mrs. Blustein

4034 PT 3 The Designing and Testing of a Self-Constructed Aircraft

**Student(s)** Michael Stamm **Grade 8** **Town** Newington  
 Patrick Nguyen **Grade 8** **Town** Newington  
 Anthony Carlson **Grade 8** **Town** Newington

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

**Newtown** Newtown Middle School Mrs. Andracchi

5565 P8 1 The Universal Soccer Shoe

**Student(s)** Miles Martiska **Grade 8** **Town** Newtown

- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF
- Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"
- American Society for Metals - Hartford Chapter --- \$50 Check

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Newtown</b>	St. Rose of Lima School	Mardi Dimon	2524	L8	1	An Investigation of the Ingestion of Microscopic Plastic Particles by the Blue Mussel, Mytilus edulis		
			<b>Student(s)</b>		<b>Catherine Herrick</b>	<b>Grade 8</b>	<b>Town</b>	Sandy Hook
<ul style="list-style-type: none"> <li>● Yale Peabody Museum --- One-Year Family Membership to the Yale Peabody Museum</li> <li>● Project Oceanology --- Individual - Book + 2 tickets, First Place Junior, check for \$100, t-shirt</li> </ul>								
<b>Newtown</b>	St. Rose of Lima School	Mrs. Marde Dimon	5016	P7	2	The Effect of Water Depth and Beach Surface on the Onshore Height of a Tsunami		
			<b>Student(s)</b>		<b>Hunter Kirkman</b>	<b>Grade 7</b>	<b>Town</b>	Sandy Hook
<ul style="list-style-type: none"> <li>● American Meteorological Society --- Certificate &amp; \$50 Amazon gift card given by CSEF</li> <li>● Connecticut College-Physics, Astronomy, &amp; Geophysics Dept. --- \$150 and certificate, Junior Physics &amp; teeshirt</li> <li>● Dreams Unlimited --- \$100 Cash Award + Certificate</li> </ul>								
<b>Newtown</b>	St. Rose of Lima School	Marde Dimon	5036	P7	1	The Amount of Critical Mass Needed to Make a Sustainable Chain Reaction		
			<b>Student(s)</b>		<b>Mary Locke</b>	<b>Grade 7</b>	<b>Town</b>	Sandy Hook
<ul style="list-style-type: none"> <li>● ISA - International Society for Automation --- 1st - \$125 award</li> </ul>								
<b>Newtown</b>	St. Rose of Lima School	Marde Dimon	2003	L7	3	The Effect of pH Level on the Growth of Algae		
			<b>Student(s)</b>		<b>Natalene Sim</b>	<b>Grade 7</b>	<b>Town</b>	Newtown
<ul style="list-style-type: none"> <li>● Southeastern New England Marine Educators --- \$100 award and membership in SENEME - 1st Place Junior &amp; T-Shirt</li> </ul>								
<b>Orange</b>	Southern CT Hebrew Academy	Karen Howell	2511	L8	3	Analysis of Increased CO2 levels in Ocean water and Effect on Crustaceans' and Bivalves' Growth		
			<b>Student(s)</b>		<b>Adina Katz</b>	<b>Grade 8</b>	<b>Town</b>	New Haven
<ul style="list-style-type: none"> <li>● American Meteorological Society --- Certificate &amp; \$50 Amazon gift card given by CSEF</li> <li>● Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, air pollution related</li> <li>● Randy Gibson Award for Earth Science Research --- \$100 cash and plaque</li> <li>● Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash</li> </ul>								
<b>Orange</b>	Southern CT Hebrew Academy	Karen Howell	4010	PT	1	Analysis of Nature's Digestive Enzymes and Effect of Inhibitors and Enhancers on Nutrition and Cell Absorption.		
			<b>Student(s)</b>		<b>Esther Lipsker</b>	<b>Grade 8</b>	<b>Town</b>	Stamford
					<b>Chana Kalmanson</b>	<b>Grade 8</b>	<b>Town</b>	New Haven
<ul style="list-style-type: none"> <li>● United States Public Health Service --- Certificate &amp; \$50 Amazon gift card given by CSEF &amp; medallion</li> <li>● Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to dinner</li> </ul>								

# Conn. Science & Engineering Fair

## Special Award Winners

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

**Orange** Southern CT Hebrew Academy Karen Howell

4003 PT 1 Analysis of Safer Electroplating Metals and Electrolyte solutions with their Environmental Impact

**Student(s)** Meira Shleifer **Grade 8** **Town** Waterbury  
 Zahava Klein **Grade 8** **Town** New Haven

- American Society for Metals - Hartford Chapter --- \$100 Check
- TurnKey Compliance Solutions Environmental Awards --- \$300 Cash Award - For excellence in environmental sciences
- Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre

**Orange** Southern CT Hebrew Academy Karen Howell

2516 L8 1 Effects of different levels of electromagnetic fields on a variety of grasses and their nutrient content

**Student(s)** Ariella Snyder **Grade 8** **Town** West Hartford

- Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash

**Oxford** Oxford High School Mrs. Scheuerk

3130 LS 3 Ultraviolet Bacterial Eradication Using Low Cost Light Emitting Diodes

**Student(s)** Tyler Fallas **Grade 12** **Town** Oxford

- American Society of Safety Engineers, CT Valley Chapter --- \$150 grade 9-12 project

**Oxford** Oxford High School Mrs. Scheuer

6030 PS 1 Electrically Independent, Low Cost, Self-Filling Water Bottle for use in Water Locked Regions

**Student(s)** Zachary Frew **Grade 12** **Town** Oxford

- Stockholm Junior Water Prize --- Certificate, \$50 gift card to Amazon given by CSEF, possible advance to further competition
- Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

**Pawcatuck** St. Michael School Michael DeNoia

2033 L7 2 Why Did The chicken Cross The Road?

**Student(s)** Kathryn Logel **Grade 7** **Town** Pawcatuck

- Henderson Award --- Certificate and \$50 Amazon Gift Card given by CSF

**Pawcatuck** St. Michael School Michael DeNoia

2520 L8 2 Effects of Mnemonic Methods on Memory

**Student(s)** Kyle R Emmert **Grade 8** **Town** Pawcatuck

- American Psychological Association --- Certificate, \$50 gift card to Amazon given by CSEF
- Sister Mary Christine Life Sciences Award --- \$150 and plaque for excellence in the life sciences by a catholic middle school project

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

5517 P8 2 Burning Biofuels: An Alternate Form of Energy

**Student(s)** Mary Bilodeau **Grade 8** **Town** Plantsville

- Association for Women Geoscientists --- Certificate & \$50 gift card to Amazon given by CSEF

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

**Plantsville** J.F. Kennedy Middle School Mrs. Wasserman  
 1013 LT 3 Gas Released by Yeast

**Student(s)** Julia Jackman **Grade 8** **Town** Southington  
 Sarah Mathew **Grade 8** **Town** Southington

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

**Plantsville** J.F. Kennedy Middle School Mr Cipollini  
 4026 PT 2 Structure Vs Nature: The Effect of Landslide Duration on Different House Structures

**Student(s)** Mia Langston **Grade 8** **Town** Southington  
 Abigail Lo Presti **Grade 8** **Town** Plantsville

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

**Plantsville** J.F. Kennedy Middle School Mrs.Pepin  
 2010 L7 1 "Pore" My Way to Cleaner Water: The use of flocculants and porous ceramic pots for purifying drinking water in developing countries

**Student(s)** Matthew Maciejewski **Grade 7** **Town** Plantsville

- Ricoh Corporation/Society for Science & the Public --- Certificate, Lapel Pin,\$50 gift card to Amazon given by CSEF
- Talcott Mountain Science Center --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Phys Science
- The Children's Museum --- 1 family 4-Pack of Admission Passes to the Children's Museum
- Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a High School student, \$200 cash

**Plantsville** J.F. Kennedy Middle School Mrs. Pepin  
 2518 L8 1 Nutrient Comparison of Lettuce Grown Hydroponically and in Soil

**Student(s)** Hannah Platt **Grade 8** **Town** Southington

- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF

**Putnam** Putnam Science Academy Serdar Haytiyev  
 6503 PST 1 Designing a High Efficiency and Low Cost Wind Turbines bu Utilizing Organic Solar Panels made from Rosa Canina

**Student(s)** Cagri Aytekin **Grade 12** **Town** Putnam  
 Furkan Sahin **Grade 10** **Town** Putnam  
 Furkan Aldemir **Grade 11** **Town** Putnam

- Constellation - An Excelon Company --- For Excellence in clean renewable / sustainable energy - Grades 9 - 12
- American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate

**Putnam** Putnam Science Academy Owen Quantick  
 3024 LS 2 Effect of Brine Concentration on Wettability on Atomisticly Smooth Surfaces

**Student(s)** Hacibey Catalbasoglu **Grade 12** **Town** Putnam

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



# Conn. Science & Engineering Fair

## Special Award Winners

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

**Putnam** Putnam Science Academy Serdar Haytiyev

3507	LST	1	Use of Saccharomyces Cerevisiae and Biosorption in the Purification of Industrially Polluted Waters
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<b>Student(s)</b>	<b>Enes Cicek</b>	<b>Grade</b> 11	<b>Town</b> Putnam
	<b>Murat Acar</b>	<b>Grade</b> 10	<b>Town</b> Putnam
	<b>Amir Edris</b>	<b>Grade</b> 10	<b>Town</b> Putnam

- Stockholm Junior Water Prize --- Certificate, \$50 gift card to Amazon given by CSEF, possible advance to further competition

**Putnam** Putnam Science Academy Caron Quantick

3520	LST	1	A Natural Way to Keep Insects Away by Using Various Essential Plant Oils as an Organic Insect Repellent
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<b>Student(s)</b>	<b>Omer Tekin</b>	<b>Grade</b> 12	<b>Town</b> Putnam
	<b>Abidin Emhan</b>	<b>Grade</b> 12	<b>Town</b> Putnam
	<b>Taha Cangoz</b>	<b>Grade</b> 12	<b>Town</b> Putnam

- Jon Stone Memorial Award --- \$150 cash for Innovative Engineering

**Putnam** Putnam Science Academy Serdar Haytiyev

6071	PS	1	Designing a Braille E-Book For the Visually Impaired and Blind People
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<b>Student(s)</b>	<b>Abdulkadir Yilmaz</b>	<b>Grade</b> 11	<b>Town</b> Putnam
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- Connecticut Association for the Gifted --- Leonardo Davinci 9-12 Grade \$50 Gift Certificate
- ISA - International Society for Automation --- 3rd - \$50 award
- Leask/Francoeur Family Awards --- Award for excellence and innovation in electrical engineering or computer science - \$200 cash
- Education Connection- Center for 21st Century Skills Awards --- \$100 For innovative use of technology to advance science or engineering
- Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

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

6098	PS	1	The Development of an Immunosorbant Assay (ELISA) for detection of IgG and IgA antibodies against Tissue Transglutaminase for the diagnosis of Celiac disease.
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<b>Student(s)</b>	<b>Andrea McGowan</b>	<b>Grade</b> 12	<b>Town</b> Redding
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- Lunch with a Patent Attorney --- Lunch with a Patent Attorney

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

6059	PS	2	A Statistical Analysis on the Effects of Volcanic Sulfate Emissions on Precipitation Patterns as Analogue for Geoengineering
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<b>Student(s)</b>	<b>Megan Siedman</b>	<b>Grade</b> 11	<b>Town</b> Redding
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- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate

**Redding** Joel Barlow High School Katherine Nuzzo

3133	LS	2	Zostera marina's Effect on Carbon Dioxide Levels in Long Island Sound and Predicted Effects
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<b>Student(s)</b>	<b>Nathaniel Tomczak</b>	<b>Grade</b> 11	<b>Town</b> Easton
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- Southeastern New England Marine Educators --- \$100 award and membership in SENEME - 1st Place Senior & T-Shirt

# Conn. Science & Engineering Fair

## Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Redding</b>	SCSEF - Old Saybrook Senior High School	Kellie Sutliff-Brady	3075	LS	2	Elevated Levels Of Interleukin-8 in Non-Small Cell Lung Cancers induce Cell Survival During Chemotherapy		
			<b>Student(s)</b>		<b>Andrew Pan</b>	<b>Grade</b> 12		<b>Town</b> Old Saybrook
<ul style="list-style-type: none"><li>● University of New Haven High School Awards in Engineering &amp; Science --- \$100 For High School Project in Cell and Molecular Biology</li></ul>								
<b>Ridgefield</b>	Ridgefield High School	Michael Yagid	6086	PS	2	Maximization of the Profit of a Large, Prestigious University in the Presence of a State University		
			<b>Student(s)</b>		<b>Adam Davidovich</b>	<b>Grade</b> 12		<b>Town</b> Ridgefield
<ul style="list-style-type: none"><li>● University of New Haven High School Awards in Engineering &amp; Science --- \$100 For High School Project in Mathematics</li></ul>								
<b>Ridgefield</b>	Ridgefield High School	Patrick Hughes	6047	PS	2	The Effect of Different Checkerboard Sizes on Steady State Visually Evoked Potentials		
			<b>Student(s)</b>		<b>Randy Deng</b>	<b>Grade</b> 12		<b>Town</b> Ridgefield
<ul style="list-style-type: none"><li>● Connecticut Association of Physics Teachers --- \$100 Senior project</li><li>● IEEE, Connecticut Section --- \$100 Honorable Mention</li></ul>								
<b>Salisbury</b>	Salisbury School	Tobias Ayer	6014	PS	3	The physics of the space elevator construction.		
			<b>Student(s)</b>		<b>Kyungmin Lee</b>	<b>Grade</b> 11		<b>Town</b> Salisbury
<ul style="list-style-type: none"><li>● Barker Mohandas Award for Transportation Research --- \$200 Cash &amp; Plaque for Excellence in Transportation Related Research- High School</li></ul>								
<b>Sandy Hook</b>	Newtown High school	Timothy Dejulio	6105	PS	2	3D Printer for Creating Domestic Utilities for Developing Countries		
			<b>Student(s)</b>		<b>David Corsi</b>	<b>Grade</b> 12		<b>Town</b> Sandy Hook
<ul style="list-style-type: none"><li>● Spirit of Invention Award --- \$100 Cash and Plaque for Inventive Concepts</li></ul>								
<b>Shelton</b>	Shelton High School	Kathleen Hayes	3001	LS	3	A Natural Fighter Against E. Coli		
			<b>Student(s)</b>		<b>Alyson Shaw</b>	<b>Grade</b> 11		<b>Town</b> Shelton
<ul style="list-style-type: none"><li>● Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner</li></ul>								
<b>Simsbury</b>	Independent - Simsbury High School	Danny Martins	6004	PS	1	The Effects of Thickness of Steel, Ball Bearing Size, and Drop Height of Ball Bearing During Dent Resistance Testing on Galvanized Steel versus Aluminum-Alloy.		
			<b>Student(s)</b>		<b>Rachel Baumann</b>	<b>Grade</b> 10		<b>Town</b> West Simsbury
<ul style="list-style-type: none"><li>● American Society for Metals - Hartford Chapter --- \$100 Check</li></ul>								

# Conn. Science & Engineering Fair

## Special Award Winners

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

**Southington** J.A. DePaolo Middle School Ms. Shay  
 4027 PT 2 Shape Affects Speed

**Student(s)** Jessica Griffin **Grade 8** **Town** Southington  
 Olivia Sherwood **Grade 8** **Town** Southington

- U.S. Air Force --- Certificate and Amazon \$50 gift card given by CSEF

**Stratford** St. Mark School Mr. Michael McMahon  
 5545 P8 1 Using Induced Wind Force to Increase the Efficiency of an Electric Vehicle Battery

**Student(s)** Emily Fedor **Grade 8** **Town** Derby

- Society of Women Engineers - Hartford Section --- Scientific Calculator
- David and Torrey Fenton Awards --- For creative work in the physical sciences- middle school; \$200 cash

**Stratford** St. Mark School Mr. Michael McMahon  
 5560 P8 1 Energy Scavenging--Proving the Seebeck Effect with a Homemade Thermoelectric Generator: A Source of Free, Sustainable, Low-Voltage Power

**Student(s)** Kristen Robertson **Grade 8** **Town** Stratford

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

**Suffield** Suffield High School Mr. Mitchell Charkiewicz  
 6075 PS 2 Energy Transfer Using Laser Power Beaming

**Student(s)** Joseph Howarth **Grade 11** **Town** Suffield

- Coherent, Inc. Richard Hart Award for Excellence in Photonics --- \$300 cash, plaque, invitation to lunch and tour Coherent factory

**Suffield** Suffield High School Mitchell Charkiewicz  
 6081 PS 2 Reverse Osmosis Water Desalination Via the Harnessing of Perpetual Wave Energy

**Student(s)** Matthew Rogers **Grade 11** **Town** Suffield

- Stockholm Junior Water Prize --- Certificate, \$50 gift card to Amazon given by CSEF, possible advance to further competition
- Wisner Award --- \$250 cash and plaque
- University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Sustainability
- John S. Kendall Memorial Award --- \$500 John S. Kendall Award for Excellence In Mechanical Engineering - High School
- U.S. Coast Guard Research and Development Center --- Summer internship to conduct research aboard ship or at a USCG base + \$50 Amazon Gift Card given by CSEF. ALTERNATE 1

**Trumbull** Christian Heritage School Mrs. Oshin  
 5509 P8 1 The Effect of Using Foam to Create a More Sophisticated Highway Barrier on Lessening the Spike of G-forces During an Impact

**Student(s)** Daniel Colgate **Grade 8** **Town** Bridgeport

- American Society of Safety Engineers, CT Valley Chapter --- \$100 grade 7-8 project
- Dakers Award for Transportation Engineering --- \$100 Award For Innovative Transportation Engineering

# Conn. Science & Engineering Fair

## Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Trumbull</b>	Christian Heritage School	Mrs. Oshin	5513	P8	2	HOW TO INSULATE YOUR HOUSE AND REDUCE YOUR FUEL BILLS		
					<b>Student(s)</b>	<b>Garrett Kalker</b>	<b>Grade 8</b>	<b>Town</b> Monroe
<ul style="list-style-type: none"> <li>Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF</li> </ul>								
<b>Trumbull</b>	Christian Heritage School	Daniel Cote	6094	PS	2	The refinement and production of bio-diesel derived from laboratory grown nannochloropsis algae		
					<b>Student(s)</b>	<b>Sarah Mack</b>	<b>Grade 11</b>	<b>Town</b> West Haven
<ul style="list-style-type: none"> <li>Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Physical Sciences</li> </ul>								
<b>Wallingford</b>	Choate Rosemary Hall	Rachel Gritzer	3112	LS	2	The Effect of Brain-Derived Neurotrophic Factor on Retinoic Acid Differentiated SH-SY5Y Cells: A Model for Striatal-Enriched Protein Tyrosine Phosphatase in Parkinson's Disease		
					<b>Student(s)</b>	<b>Archeta Rajagopalan</b>	<b>Grade 12</b>	<b>Town</b> Glastonbury
<ul style="list-style-type: none"> <li>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</li> </ul>								
<b>Washington</b>	The Gunnery	Steven Bailey	6077	PS	2	A Novel Solar Powered Photobioreactor Design for Waste Water Treatment and Producing Biofuel From Micro-Algae		
					<b>Student(s)</b>	<b>Grace Herrick</b>	<b>Grade 10</b>	<b>Town</b> Sandy Hook
<ul style="list-style-type: none"> <li>Arthur Mensing Award --- \$1000 cash award for excellence in the physical sciences</li> </ul>								
<b>West Hartford</b>	Solomon Schechter Day School	Sue Prihar	2016	L7	1	Music and Memory		
					<b>Student(s)</b>	<b>Ariel Gordon</b>	<b>Grade 7</b>	<b>Town</b> Woodbridge
<ul style="list-style-type: none"> <li>American Psychological Association --- Certificate, \$50 gift card to Amazon given by CSEF</li> </ul>								
<b>West Hartford</b>	St. Timothy Middle School	Mrs. Christina Simao-Breen	5056	P7	3	Electromagnetic Energy and Innovative Applications		
					<b>Student(s)</b>	<b>Steven Liu</b>	<b>Grade 7</b>	<b>Town</b> West Hartford
<ul style="list-style-type: none"> <li>Barker Mohandas Award for Transportation Research --- \$100 Cash &amp; Plaque for Excellence in Transportation Related Research- Middle School</li> </ul>								
<b>Westport</b>	Staples High School	Dr. Nicholas D. Morgan	6053	PS	1	The Derivation of Habitable Zones around Binary Star Systems: Is Planetary Stability Possible?		
					<b>Student(s)</b>	<b>Leo Andriuk</b>	<b>Grade 12</b>	<b>Town</b> Westport
<ul style="list-style-type: none"> <li>Astronomical Society of Greater Hartford --- Senior Project-\$150, subscription to Sky and Telescope magazine and ASGH meeting invitation</li> <li>Connecticut College-Physics, Astronomy, &amp; Geophysics Dept. --- \$150 and certificate, Senior Physics &amp; teeshirt</li> </ul>								

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Westport</b>	Staples High School	Dr. Morse	6013	PS	2	Chemical Looping Combustion: A Zero CO2 Footprint Energy Conversion Process		
						<b>Student(s) Rees Chang</b>	<b>Grade 11</b>	<b>Town Westport</b>
								<ul style="list-style-type: none"> <li>● Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, air pollution related</li> </ul>
<b>Westport</b>	Staples High School	Dr. Morse	3003	LS	3	Antimicrobial Activity of Lichen Extracts		
						<b>Student(s) Pamela Onorato</b>	<b>Grade 12</b>	<b>Town Westport</b>
								<ul style="list-style-type: none"> <li>● Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum</li> </ul>
<b>Westport</b>	Staples High School	Dr. Nick Morgan	6091	PS	2	Smoking Gun in the Milky Way Galaxy: Open Clusters and Dwarf Galaxies		
						<b>Student(s) Xiaotian Zhang</b>	<b>Grade 11</b>	<b>Town Westport</b>
								<ul style="list-style-type: none"> <li>● Astronomical Society of Greater Hartford --- Senior Project-\$100, subscription to Sky and Telescope magazine and ASGH meeting invitation</li> </ul>
<b>Wilton</b>	Middlebrook School	Mrs. Randall	5009	P7	1	The Impact of Turbine Blades on Power Output		
						<b>Student(s) Vignesh Subramanian</b>	<b>Grade 7</b>	<b>Town Wilton</b>
								<ul style="list-style-type: none"> <li>● J.A. Augustine Award --- \$100 for excellence in physical sciences</li> </ul>
<b>Windsor</b>	Madina Academy	Esslam Hassan	2541	L8	2	Inexpensive Treatments for Plants Affected from Contaminated Soil by Oil Spills		
						<b>Student(s) Radeyah Ahmed</b>	<b>Grade 8</b>	<b>Town Bloomfield</b>
								<ul style="list-style-type: none"> <li>● Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School Life Sciences</li> </ul>
<b>Woodbridge</b>	Amity Regional High School	Deborah Day	6509	PST	1	Echocardiogram-Based Wireless Left Ventricular Assist Device (LVAD) with Mobile Application Monitoring and Control		
						<b>Student(s) Daniel Giebisch</b>	<b>Grade 12</b>	<b>Town Woodbridge</b>
						<b>Noah Gallant</b>	<b>Grade 12</b>	<b>Town Bethany</b>
								<ul style="list-style-type: none"> <li>● Intel Excellence in Computer Science Award --- \$200 &amp; certificate</li> <li>● IEEE, Connecticut Section --- \$100 Honorable Mention</li> <li>● University of New Haven High School Awards in Engineering &amp; Science --- \$100 For High School Project in Computer Science</li> </ul>
<b>Woodbridge</b>	Amity Regional High School	Deborah Day	3002	LS	2	The Effects of Atypical PH on Bay Scallops ( <i>Argopecten irradians</i> )		
						<b>Student(s) Dana Perry</b>	<b>Grade 12</b>	<b>Town Bethany</b>
								<ul style="list-style-type: none"> <li>● U.S. Metric Association --- Certificate &amp; \$50 gift card to Amazon given by CSEF</li> </ul>

# 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

6082	PS	2	Creating a Semantic Search Engine with Voice Integration					
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**Student(s)** David Wang

**Grade** 11 **Town** Bethany

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- U.S. Coast Guard Research and Development Center --- Summer internship to conduct research aboard ship or at a USCG base + \$50 Amazon Gift Card given by CSEF.
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