



Connecticut Science & Engineering Fair

Quinnipiac University

March 15 - 19, 2016

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)
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Avon Talcott Mountain Academy Dr. Jessica Lodwick

2035	L7	2	Do Algorithms Dream of Electric Trees?					
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Student(s) Aresh Pourkavoos **Grade 7** **Town** Avon

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

Avon Talcott Mountain Academy Jessica Lodwick

2510	L8	2	Utilizing Microbes And Chlorella Vulgaris Algae To Construct An Eco-Friendly Microbial Fuel Cell					
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Student(s) Yusuf Zaidi **Grade 8** **Town** Avon

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

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean

5567	P8	1	The Hand-Writer Helper					
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Student(s) Michael Baitch **Grade 8** **Town** Woodbridge

* Talcott Mountain Science Center --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Phys Science
 * Lunch with a Patent Attorney --- Lunch with a Patent Attorney
 * Jon Stone Memorial Award --- \$150 cash for Innovative Engineering
 * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"
 * John S. Kendall Memorial Awards --- \$300 John S. Kendall Award for Excellence In Mechanical Engineering - Middle School

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean

4009	PT	1	The TempBot					
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Student(s) Ana Boccanfuso **Grade 8** **Town** Woodbridge
 Sauder Saffran **Grade 8** **Town** Bethany

* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF
 * IEEE, Connecticut Section --- \$100 Honorable Mention

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean

5541	P8	1	The Eco-Charge					
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Student(s) Sophia Wang **Grade 8** **Town** Woodbridge

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

Conn. Science & Engineering Fair

Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Bethany	Amity Reg Middle School, Bethany Campus	Mr. Berean	4001	PT	1	Emergency Oil Spill Robot		
Student(s)					Victor You	Grade 8	Town Woodbridge	
					Benjamin Goldstein	Grade 8	Town Woodbridge	
					Ryan Kelley	Grade 8	Town Woodbridge	

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

Bethel	Bethel High School	Ray Turek	3038	LS	3	Decoding Dangerous DNA		
Student(s)					Monisha Das	Grade 12	Town Bethel	

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

Bethel	St. Mary School	Mrs. Kate McDonald	5510	P8	3	Water Wizard: Incorporating the Simplicity of Water Testing Strips with the Complexity and Sophistication of a Smartphone Application While Utilizing Mathematics		
Student(s)					Kevin Legnard	Grade 8	Town Bethel	

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

Bozrah	Fields Memorial School	Evelyn Brown	5518	P8	1	Producing Renewable Energy Using Piezoelectric Walking Surfaces		
Student(s)					Dravyn Okoney	Grade 8	Town Bozrah	

* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF
 * Ricoh Americans Corporation --- Certificate, \$50 gift card to Amazon given by CSEF
 * Constellation, an Exelon Company --- 2nd: \$75.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
 * Connecticut Association for the Gifted --- Leonardo Davinci 7-8 Grade \$50 Gift Certificate
 * Spirit of Invention Award --- \$100 Cash and Plaque for Inventive Concepts

Bozrah	Fields Memorial School	Evelyn Brown	5531	P8	1	Using Solar Engine Circuits to Power Electrical Devices		
Student(s)					Victoria Smith	Grade 8	Town Bozrah	

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

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

Branford CT Experiential Learning Center (CELC) Melinda Alcosser
 4039 PT 1 BullyCheck - Designing Anti-Bullying Software

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

* The Karen J. Howell Middle School Award for "Learning and Serving"
 --- The Karen J. Howell Middle School Award for "Learning and Serving" - \$1000
 Physical Science

Branford CT Experiential Learning Center (CELC) Melinda Alcosser
 2046 L7 2 Bovine Methane Emissions Capturing Device

Student(s) Cade Morris **Grade 7** **Town** Northford

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

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
 3036 LS 1 Modified Compost Leachate as a Narrow Spectrum Targeting Herbicide

Student(s) Sara Beck **Grade 12** **Town** Milford

* Fox Pest Control Award for Environmental Management --- \$150 Cash for Excellence in Environmental Management

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
 6026 PS 1 Novel Application of an Electromagnetic Induction Field to Inhibit Surface Bio-Fouling in the Marine
 Environment

Student(s) Zachary Dillon **Grade 12** **Town** Stratford

* ASM Materials Education Foundation --- Certificate & \$50 gift card to Amazon given by CSEF
 * ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2016 Sustainability Solutions
 Festival and \$50 Gift Card

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
 6029 PS 2 Development of a biochar based, sorption material to regulate nitrogen compounds in aquatic and
 terrestrial environments.

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

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

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
 6008 PS 2 Observing the Deposition Process of Synthesized of Graphene Oxide and Iron Oxide to Establish a
 Stable Magnetic Field

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

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

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
 3086 LS 1 Analysis of Honey Derivatives as a Functional Tumor Growth Suppressant

Student(s) Katharine Morris **Grade 12** **Town** Bridgeport

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

Conn. Science & Engineering Fair

Special Award Winners

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

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
 3052 LS 2 Using biochar and 8-methyl-N-vanillyl-trans-6- nonenamamide as a nontoxic agricultural pest inhibitor for glycine max

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

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

Bridgeport High Horizons Magnet School Mrs. Scott-Thiam
 2037 L7 1 Fogponics

Student(s) Rebecca Abirached **Grade 7** **Town** Bridgeport

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

Bridgeport Park City Prep Charter School Vasiliki Boudreau
 4031 PT 2 Talking vs Texting

Student(s) Gloryann De Jesus **Grade 7** **Town** Bridgeport
Brianna Ozoria **Grade 7** **Town** Bridgeport
Angoline Rivera **Grade 7** **Town** Bridgeport

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

Bridgeport Waltersville School Miss Kendrick
 2523 L8 3 Memory Mnemonics

Student(s) Jalene Rivera **Grade 8** **Town** Bridgeport

* American Psychological Association --- Certificate, \$50 gift card to Amazon given by CSEF

Bridgeport Warren Harding High School Lilliam I. Solis
 6075 PS 3 The Plant and the Microwave

Student(s) Jais Cordonero **Grade 9** **Town** Bridgeport

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

Bristol St. Paul Catholic High School Mr Aliberti
 6006 PS 2 A Novel Approach To Help Households Use Less Water

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

* Ct Architecture Foundation Award Name: The William M. Mack, AIA Award --- \$250 Gift Certificate to Barnes and Noble from the Connecticut Architecture Foundation, William M. Mack, AIA Award.
 * ISA - International Society for Automation - Ct. Valley Section --- 2nd - \$75 award
 * CSF Board of Directors Award --- certificate and \$50 Amazon gift card given by CSF
 * The Connecticut Technology Council Young Woman Innovation Award --- \$150 Cash Award for Technological Innovation

Broad Brook Masthay - Homeschool Melissa Masthay
 3092 LS 3 Exploring the Effects of Eutrophication on an Aquatic Ecosystem

Student(s) Jamie Masthay **Grade 10** **Town** Broad Brook

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

Conn. Science & Engineering Fair

Special Award Winners

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

Canton Canton High School Stephen Riley
 6084 PS 1 Saxophone Overtones

Student(s) Zachary Oliver **Grade 12** **Town** Canton

* Connecticut Association of Physics Teachers --- \$100 Senior project
 * Connecticut College-Physics, Astronomy, & Geophysics Dept. --- \$150 and certificate, Senior Physics & teeshirt

Canton Canton High School Stephen Riley
 6002 PS 2 Rhodamine 6G Dye Laser

Student(s) John Solomon **Grade 12** **Town** Canton

* Wisner Award --- \$250 cash and plaque

Canton Canton Middle School Mr. Riley
 4026 PT 1 The Note Glove

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

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

Danbury Immaculate High School Mrs. Bridget Henry
 6042 PS 1 Novel Glycerol-Free Biodiesel Production Using Enzyme Catalysis

Student(s) Martha Haddad **Grade 11** **Town** Danbury

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

Danbury St. Gregory the Great School Christine Fahey
 5521 P8 2 Electrons...A Pet's Best Friend

Student(s) Elizabeth Flaherty **Grade 8** **Town** New Fairfield

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

Danbury St. Gregory the Great School Christine Fahey
 1020 LT 1 The Effect of Salt on Plant Growth

Student(s) Eric McNamara **Grade 7** **Town** Danbury
Thomas Fahey **Grade 7** **Town** Danbury

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

Danbury St. Gregory the Great School Mrs. Fahey
 1024 LT 1 Let's Go Bananas!
 The Effect Of Ripeness On Banana DNA Extraction

Student(s) Zachary Meyerson **Grade 7** **Town** Danbury
Dionie Smith **Grade 7** **Town** Danbury

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

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Special Award Winners

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

Danbury St. Joseph School Mrs. Jennifer Reilly
 5533 P8 2 Electrolytes: Which Sport Drinks Helps the Body Recover the Most After An Endurance Workout?
Student(s) Brigid Gage **Grade 8** **Town** Danbury

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

Danbury St. Joseph School Jennifer Reilly
 5004 P7 1 Efficient Low Energy Salt Water Desalination
Student(s) Elias Haddad **Grade 7** **Town** Danbury

* MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, middle school, \$100 cash award

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

Danbury St. Joseph School Jennifer Reilly
 1015 LT 2 The effect of x-ray radiation on the reproduction of Fruit Flies.
Student(s) Patrick Iannetta **Grade 8** **Town** Danbury
James O'Keefe **Grade 8** **Town** Danbury

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

Danbury St. Joseph School Jennifer Reilly
 2538 L8 1 Influence of Climate Change on Lobster Population in Buzzards Bay Massachusetts: Implications for Long Island Sound
Student(s) Bradley Kerr **Grade 8** **Town** Danbury

* American Meteorological Society --- Certificate & \$50 Amazon gift card given by CSEF

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

* Southeastern New England Marine Educators --- \$100 award and membership in SENEME - 1st Place Junior & T-Shirt

* Project Oceanology --- Individual - Book + 2 tickets, First Place Junior, check for \$100, t-shirt

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

* Greenwich Shellfish Commission Marine Ecology Awards --- Middle School Award for Excellence in Marine Ecology Award- Ocean Camp at Project Oceanology

Danbury St. Joseph School Jennifer Reilly
 1032 LT 3 Preventing Bacteria Growth in Food
Student(s) Matthew Riggs **Grade 7** **Town** Danbury
Steven Soto **Grade 7** **Town** Danbury

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

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

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

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
 2005 L7 1 Study of Various Starch-based Biopolymers

Student(s) Lasya Josyula **Grade 7** **Town** Danbury

- * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp
- * **The Karen J. Howell Middle School Award for "Learning and Serving"**
 --- The Karen J. Howell Middle School Award for "Learning and Serving" - \$1000 Life Science

Danbury Westside Middle School Academy Mr. Neuhausel
 5530 P8 1 Harvesting Wind From Street Canyons Using A Double Helix Wind Turbine

Student(s) Jeffrey Osborne **Grade 8** **Town** Danbury

- * Urban School Challenge 1st Place Middle School Awards --- Highest Placing 8th grader- GENIUS-Olympiad- \$500 travel stipend
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

Danbury Westside Middle School Academy Mr. Neuhausel
 2009 L7 1 Ground Level Ozone in Danbury

Student(s) Nicholas Raslavsky **Grade 7** **Town** Danbury

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

Danbury Westside Middle School Academy Jonathon Neuhausel
 5561 P8 1 The effect that different ingredient ratios have on the mechanical strength of bioplastics.

Student(s) Sanjana Shriram **Grade 8** **Town** Danbury

- * ASM Materials Education Foundation --- Certificate & \$50 gift card to Amazon given by CSEF
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related

Danbury Westside Middle School Academy Jonathan Neuhausel
 5035 P7 1 Effect of Nozzle Size for Compressed Air Water Rockets

Student(s) Gryffin Syme **Grade 7** **Town** Danbury

- * American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate
- * Astronomical Society of Greater Hartford --- Junior Project-\$100, subscription to Sky and Telescope magazine and ASGH meeting invitation

Enfield St. Martha School Katie Rose Boissonneault
 2003 L7 1 Si High, Low, or No: Algae where would you like to grow?

Student(s) Stephen Rougeot **Grade 7** **Town** Enfield

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

Conn. Science & Engineering Fair

Special Award Winners

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

Fairfield Fairfield College Preparatory School Deborah Kiel

6052 PS 2 Application of Computer Vision in Pupil and Eye Center Tracking

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

- * Intel Excellence in Computer Science Award --- \$200 & certificate
- * IEEE, Connecticut Section --- \$250 Honors Award -Senior
- * Skills21 at EDUCATION CONNECTION --- \$100 For innovative use of technology to advance science or engineering
- * Zepke Award --- \$200 - For the Best Use of Electronic Circuitry
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Mathematics
- * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

Fairfield Fairfield College Preparatory School Mrs. Kiel

3015 LS 1 Examining the effectiveness of phytoremediation of heavy metals in water using Elodea Canadensis and Brassia Juncea.

Student(s) Jonathan Siveyer **Grade 11** **Town** Monroe

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

Fishers Island Fishers Island School Mrs. Carol Giles

3013 LS 2 Assessing the Efficiency and Ecological Impact of Various Anti-fouling Methods

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

- * ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2016 Sustainability Solutions Festival and \$50 Gift Card
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate
- * Project Oceanology --- Individual - Book + 2 tickets, First Place Senior, check for \$100, t-shirt

Forestville St. Matthew School Mrs. MaryEllen Schigas

2045 L7 3 Prosthetics
Making the disabled able.

Student(s) Sophia Gerst **Grade 7** **Town** Bristol

- * U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate
- * Bob Harris Fix It Award --- \$75 and Certificate for ingenuity in using material and tools

Forestville St. Matthew School Mrs. MaryEllen Schigas

2038 L7 2 Building a Prosthetic Hand

Student(s) Nina Zwolinski **Grade 7** **Town** Bristol

- * Ricoh Americans Corporation --- Certificate, \$50 gift card to Amazon given by CSEF

Glastonbury Smith Middle School Mary Coburn

5526 P8 2 Li-Fi: How bright should LEDs be to accurately transmit data?

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

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

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Special Award Winners

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Greenwich	Brunswick School	Dana Montanez	6037	PS	2	Optimizing Efficiency of Urban, Track-based Rapid Transit Systems		
			Student(s)		Wesley Peisch	Grade 10		Town Greenwich
* Barker Mohandas Awards for Transportation Research --- \$200 Cash & Plaque for Excellence in Transportation Related Research- High School								
Greenwich	Brunswick School	Dana Montanez	6031	PS	2	Improving Standard of Living for Refugees: Use of Recycled Materials to modify internal temperature and dryness, and to provide electricity and water in tented housing		
			Student(s)		Lachlan Rosato	Grade 11		Town Greenwich
* Ct Architecture Foundation Award Name: The William M. Mack, AIA Award --- \$250 Gift Certificate to Barnes and Noble from the Connecticut Architecture Foundation, William M. Mack, AIA Award.								
Greenwich	Brunswick School	Dana Montanez	3082	LS	1	Observing the Synergistic Effect of Pesticides on Terrestrial and Aquatic Ecosystems		
			Student(s)		John Stefanou	Grade 11		Town Old Greenwich
* Society for In Vitro Biology --- Certificate and \$50 gift card to Amazon given by CSEF								
Greenwich	Greenwich High School	Andrew Bramante	3078	LS	2	Synthesis of Thermosensitive Magnetoliposomes for the Treatment of Atherosclerosis via Controlled Drug Delivery & Magnetic Hyperthermia		
			Student(s)		Margaret Cirino	Grade 11		Town Greenwich
* U.S. Metric Association --- Certificate & \$50 gift card to Amazon given by CSEF								
* University of Connecticut Academic Excellence Scholarship --- Academic Excellence Scholarship - \$5000 a year for each of four academic years- \$20,000 total								
Greenwich	Greenwich High School	Andrew Bramante	6043	PS	1	Construction of an Agonistic Pneumatic Artificial Muscle Air Conservation System		
			Student(s)		Wesley Heim	Grade 10		Town Cos Cob
* David and Torrey Fenton Awards --- For creative work in the physical sciences- \$250 cash								
Greenwich	Greenwich High School	Andrew Bramante	6048	PS	1	Fabrication of a Magnetically Vertical-Aligned Boron Nitride Nanotube Membrane in a Lyotropic Precursor for Salinity Gradient Power		
			Student(s)		Connor Li	Grade 11		Town Cos Cob
* U.S. Metric Association --- Certificate & \$50 gift card to Amazon given by CSEF								
* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate1								
Greenwich	Greenwich High School	Andrew Bramante	6055	PS	1	Increased Charge Rate and Capacity for Olivine Lithium-Ion Batteries Using Efficient, Upcycled Nanoscale Electrodes		
			Student(s)		Christopher Popham	Grade 11		Town Old Greenwich
* Yale Science & Engineering Association, Inc. --- Certificate, \$50 gift card to Amazon given by CSEF								

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Special Award Winners

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

Greenwich Greenwich High School Andrew Bramante
 6057 PS 1 Water Droplet Repulsion and Reduced Icing Tendencies on Superhydrophobic Surfaces
Student(s) Haley Stober **Grade 10** **Town** Old Greenwich

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

Greenwich Greenwich High School Andrew Bramante
 3065 LS 2 In silico Prediction of Breast Cancer Cellular Response to Drug Therapies using Random Forests Algorithms
Student(s) Shobhita Sundaram **Grade 10** **Town** Greenwich

* 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

Greenwich Greenwich High School Andrew Bramante
 3004 LS 2 Battling Honey Bee CCD via Reduction of Neonicotinoid Content in Guttation Droplets using Biochar Soil Additives
Student(s) Derek Woo **Grade 11** **Town** Greenwich

* Yale Peabody Museum --- One-Year Family Membership to the Yale Peabody Museum
 * Alumni Botany Awards --- Alumni High School Botany Award- \$100 Cash

Greenwich Greenwich High School Mr. Andrew Bramante
 3029 LS 2 Development of a Portable, Tattoo-Based Biosensor for the Non-Invasive, Low-Cost Diagnosis of Atherosclerosis via Iontophoresis of Macrophage-Targeting Silver Nanoparticles
Student(s) William Yin **Grade 11** **Town** Riverside

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

Greenwich Greenwich High School Andrew Bramante
 6015 PS 1 Self-Sustaining Biosynthesis of Methane from CO2 via a Microbial & Electrochemical Hybrid System
Student(s) Devyn Zaminski **Grade 11** **Town** Greenwich

* ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2016 Sustainability Solutions Festival and \$50 Gift Card
 * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate
 * Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related

Greenwich Greenwich High School Andrew Bramante
 3100 LS 1 Enhanced Cellulolytic Enzyme Production by the Synergism between Trichoderma reesei and Aspergillus niger for the Production of Cellulosic Biofuel via Enzymatic Saccharification of Perennial
Student(s) Teresa Zheng **Grade 12** **Town** Greenwich

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

Hamden Hamden Middle School Michelle DeLucia
 2542 L8 2 Effect of Pollutants on Aquatic Life
Student(s) Ella Bradford **Grade 8** **Town** Hamden

* NASA EARTH System Science Award --- Certificate and \$50 gift card given by CSEF

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Hamden	Hamden Middle School	Danny Martins	4037	PT	1	Nitrates and pH and Rain, Oh My!		
		Student(s)						
		Paige Campbell					Grade 8	Town Hamden
		Katherine Bergherr-Hall					Grade 8	Town Hamden
		* Association for Women Geoscientists --- Certificate, \$50 gift card to Amazon given by CSEF, possible advance to further competition						
Hamden	Sacred Heart Academy	Mrs. Pam Brownell	6067	PS	3	Is Oobleck the Key to Solving Beach Erosion?		
		Student(s)						
		Ashley Amarante					Grade 10	Town Wallingford
		* Connecticut Association for the Gifted --- Leonardo Davinci Award 9-12 Grade \$50 Gift Certificate						
Hamden	Sacred Heart Academy	Susan Nelson	3105	LS	2	The Effect of Polyphenols in Tea on Preventing E.Coli Growth		
		Student(s)						
		Katie Gray					Grade 9	Town Oxford
		* Sister Mary Christine Life Sciences Award --- \$250 and plaque for excellence in the life sciences by a catholic high school project						
Hamden	Sacred Heart Academy	Mrs. Brownell	6517	PST	1	Printing Skin: Using Different Polymer Filaments to Print a Prosthetic Covering		
		Student(s)						
		Eunji Lee					Grade 10	Town Trumbull
		Priya Patel					Grade 11	Town Derby
		* Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Physical Sciences						
Hamden	Sacred Heart Academy	Mrs. Pamela Brownell	6076	PS	2	A Practical Use of the MFC Partial Air Cathode: Improving Performance by Implementing a New Design for Applications in a Conventional Septic System		
		Student(s)						
		Elizabeth LoPreiato					Grade 11	Town Berlin
		* Society of Women Engineers - Hartford Section --- Scientific Calculator						
Hamden	Sacred Heart Academy	Dr. Elizabeth Christophy	6027	PS	2	Examination of Different Wet Scrubber Sorbents in Reducing Acid Rain Production and Removing Solid Pollutants		
		Student(s)						
		Laura Mocchiola					Grade 10	Town Shelton
		* U.S. Metric Association --- Certificate & \$50 gift card to Amazon given by CSEF						
		* TurnKey Compliance Solutions Environmental Awards --- \$300 Cash Award High School- For excellence in environmental sciences						
Hartford	Environmental Sciences Magnet at Mary Hooker	Mr Clark	5016	P7	1	Corked?		
		Student(s)						
		Kevin Braunwart					Grade 7	Town Hebron
		* Fred Bailey Memorial Award --- \$250 for innovative research- Hartford Urban Middle School Project						

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

Hartford Environmental Sciences Magnet at Mary Hooker Rebecca Hays
 2058 L7 2 Breeding in the Rain

Student(s) Alennie Cosme **Grade 7** **Town** Hartford

* The Children's Museum --- 1 family 4-Pack of Admission Passes to the Children's Museum

Hartford Environmental Sciences Magnet at Mary Hooker Becca Hays
 1025 LT 2 Got Bugs?
 A study of arthropod diversity and abundance

Student(s) Connor Rego **Grade 7** **Town** Winsted

Keegan Miller **Grade 7** **Town** Bristol

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

Hartford Environmental Sciences Magnet at Mary Hooker David Cappaert
 2507 L8 1 Man Vs Wild:
 A Study of Plant Biodiversity in Overgrown Ecosystems

Student(s) Austin Zemsta **Grade 8** **Town** New Britain

* Ricoh Americans Corporation --- Certificate, \$50 gift card to Amazon given by CSEF

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

Hartford Sport and Medical Sciences Academy Marianne Vitali
 5005 P7 1 Natural Plastic

Student(s) Madison Lee **Grade 7** **Town** Rocky Hill

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

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

* Stanley Lessoff Award for Excellence In Analytical Technique --- \$100 Cash and Plaque

* Fred Bailey Memorial Award --- \$250 for innovative research- Hartford Urban Middle School Project

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

Hebron Oei - Homeschool Ellen McHugh
 5026 P7 1 Hydropower Tiles: A Novel Approach to Harvesting Energy from Human Locomotion

Student(s) John Oei **Grade 7** **Town** Hebron

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

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

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

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

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

Hebron RHAM Middle School Bob Clarke
 2522 L8 2 Computer simulation if segregating students by classroom during lunch time during a viral outbreak will reduce the length of the viral outbreak and the number of students infected.

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

* Leask/Francoeur Family Awards --- 1st Place Middle School- For innovation electrical engineering or computer science - \$200 cash

Conn. Science & Engineering Fair

Special Award Winners

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

Madison Daniel Hand High School Madhuparna Roychoudhury
 6053 PS 2 A practical method for CO2 capture by recovering dissolved CO2 in ocean water.

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

- * Yale Science & Engineering Association, Inc. --- Certificate, \$50 gift card to Amazon given by CSEF
- * University of Connecticut - Physics Department --- UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificat
- * Greenwich Shellfish Commission Marine Ecology Awards --- High School Award for Excellence in Marine Ecology Award- Ocean Camp at Project Oceanology

Manchester St. James School Mrs. Plante
 4018 PT 2 Does Your Age Affect Your Reflexes

Student(s) Nathan Kincheloe **Grade 7** **Town** Manchester
 Anna DeLaura **Grade 7** **Town** Manchester

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

Manchester St. James School Mrs. Plante
 4003 PT 3 Nailed It
 Nails and Liquids That Corrode Them

Student(s) Kate Leyden **Grade 7** **Town** Manchester
 Max Lambert **Grade 7** **Town** Manchester

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

Meriden ACES Thomas Edison Middle School Todd Solli
 5019 P7 2 How Does Height Affect Structure Stability?

Student(s) Kaya Cook **Grade 7** **Town** Middletown

- * Barker Mohandas Awards for Transportation Research --- \$100 Cash & Plaque for Excellence in Transportation Related Research- Middle School

Middlebury Westover School Ben Hildebrand
 6009 PS 1 The Pick Me Up Stander Walker: Designing A Device to Assist with Sit to Stand Transfers and Ambulation

Student(s) Caleigh Waskowicz **Grade 12** **Town** Southington

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

Milford St. Gabriel School Mr. John Campbell
 5025 P7 2 Wind Power

Student(s) Jacob Fleischer **Grade 7** **Town** Milford

- * NASA EARTH System Science Award --- Certificate and \$50 gift card given by CSEF

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
New Haven	Engineering Science University Magnet School	Roger Rushworth	5545	P8	1	Polyurethane Foam as Acoustic Insulation for uses in Aviation Technology		
					Student(s) Arya Bairat	Grade 8	Town Milford	
<ul style="list-style-type: none"> * U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate * Connecticut Academy of Audiology --- \$150 Cash Award Middle School- For Excellence in Audiology and Acoustics 								
New Haven	Engineering Science University Magnet School	Mr. Rushwoth	2041	L7	3	PEST'S CONTROLLING US!		
					Student(s) Sreeya Gudlavalleti	Grade 7	Town Milford	
<ul style="list-style-type: none"> * NASA EARTH System Science Award --- Certificate and \$50 gift card given by CSEF 								
New Haven	Engineering Science University Magnet School	Mr. Rushworth	5002	P7	2	Does Distance From a Nuclear Power Plant a Affect Plant Growth?		
					Student(s) Eva Heaphy	Grade 7	Town New Haven	
<ul style="list-style-type: none"> * Association for Women Geoscientists --- Certificate & \$50 gift card to Amazon given by CSEF * Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School, Physical Sciences 								
New Haven	Engineering Science University Magnet School	Mr. Roger Rushworth	6022	PS	1	An Approach to Converting Pollutant CO2 Emissions into Methanol Fuels to Reduce Environmental Harm from Greenhouse Gases		
					Student(s) Prastik Mohanraj	Grade 9	Town Ansonia	
<ul style="list-style-type: none"> * Environmental/ Energy Award- Urban Public School Award --- \$100 Award for top environmental or alternative energy project from a New Haven public school 								
New Haven	Wilbur Cross High School	Caroline Dahm	3045	LS	3	Polyetherketoneketone (PEKK) Surgical Implant: An alternative cure for Internal Coxa Saltans in Female Adolescents		
					Student(s) Sophie Edelstein	Grade 9	Town New Haven	
<ul style="list-style-type: none"> * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate * John S. Kendall Memorial Awards --- \$500 John S. Kendall Award for Excellence In Mechanical Engineering - High School 								
New Haven	Wilbur Cross High School	Caroline Dahm	6038	PS	2	Exploring conditions for Struvite precipitation and crystal growth.		
					Student(s) Maya Geradi	Grade 10	Town New Haven	
<ul style="list-style-type: none"> * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Sustainability * CSF Board of Directors Award --- certificate and \$50 Amazon gift card given by CSF 								
New Haven	Worthington Hooker School	Douglas Jones	5012	P7	1	Acing the Wing		
					Student(s) Alexandra Northrup	Grade 7	Town New Haven	
<ul style="list-style-type: none"> * U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate 								

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

New London Science and Technology Magnet HS Chuck Mulligan

3027 LS 1 Bioaccumulation of Total Mercury in the Poquonnock River System and its Implications for Local Fisheries

Student(s) Kathryn Ashbey **Grade** 12 **Town** Waterford

- * Mystic Aquarium --- \$100 and 4 Admission Tickets to Mystic Aquarium
- * Southeastern New England Marine Educators --- \$100 award and membership in SENEME - 1st Place Senior & T-Shirt
- * Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Life Sciences

New London Science and Technology Magnet HS Mr. Mulligan

6506 PST 2 Using Heat Sinks In Integrated Photovoltaic Systems To Enhance Hydrogen Production Through Electrolysis

Student(s) John Burnett **Grade** 10 **Town** Ledyard
 Austin Huang **Grade** 10 **Town** Uncasville

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

North Haven North Haven Middle School Susan Jasinski

2033 L7 2 Developing a low-cost Green Algae Photobioreactor

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

- * American Meteorological Society --- Certificate & \$50 Amazon gift card given by CSEF
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

North Haven North Haven Middle School Susan Jasinski

2022 L7 1 What is the perfect absorbent for used cooking oil?

Student(s) Soo Yeon Lee **Grade** 7 **Town** North Haven

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

Norwich Norwich Technical High School Mrs. Lisa Elliott

3104 LS 3 Stopping the stigma on obsessive compulsive disorder (OCD)

Student(s) Carley Fratoni **Grade** 12 **Town** Norwich

- * American Psychological Association --- Certificate, \$50 gift card to Amazon given by CSEF

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

5527 P8 2 Designing a Cost-Efficient Energy Solution Utilizing Solar and Wind Energy for Small Scale Use

Student(s) Shahood Khan **Grade** 8 **Town** Orange

- * American Meteorological Society --- Certificate & \$50 Amazon gift card given by CSEF

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

5504 P8 2 Non-Newtonian Fluid Headgear to Prevent or Reduce Concussions

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

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

Conn. Science & Engineering Fair

Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Plantsville	J.F. Kennedy Middle School	Mrs.Pepin	1013	LT	3	Growing Algae		
		Student(s)				Kailey Keegan	Grade 7	Town Plantsville
						Dylan Sandow	Grade 7	Town Plantsville
* American Meteorological Society --- Certificate & \$50 Amazon gift card given by CSEF								
Redding	CT STEM FAIR	Deborah Day	3093	LS	1	The Effect of Protective Material Type on Concussion Prevention		
		Student(s)				Quinn Burke	Grade 10	Town Woodbridge
* American Society of Safety Engineers, CT Valley Chapter --- \$150 grade 9-12 project								
Redding	CT STEM FAIR	Deborah Day	6078	PS	1	The Fabrication and Characterization of Carbon Nanotubes Using Different Transition Metal Nanoparticles		
		Student(s)				Jacob Silliman	Grade 10	Town Woodbridge
* American Society for Metals - Hartford Chapter --- \$100 Check								
Redding	CT STEM FAIR	Scott DeMeo	3071	LS	2	The Effect of Color on the Perception of Saltiness		
		Student(s)				Neha Sudhir	Grade 9	Town Woodbridge
* Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to dinner								
Redding	Joel Barlow High School	Dr. Katherine Nuzzo	3103	LS	3	Chemo-responsive behavior of the Cancer Irroratus when exposed to carbon dioxide induced ocean acidification		
		Student(s)				Libby Albanese	Grade 11	Town Redding
* Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum								
Redding	Joel Barlow High School	Dr. Katherine Nuzzo	3090	LS	2	The Rate of Calcification of Crassostrea Virginica as Calcium Carbonate Levels are Increased		
		Student(s)				Tatiana Naclerio	Grade 11	Town Easton
* Mu Alpha Theta --- Certificate, \$50 gift card to Amazon given by CSEF								
Redding	Joel Barlow High School	Dr. Katherine Nuzzo	3014	LS	2	Soil Respiration and Project GRACE Groundwater Anomalies		
		Student(s)				Katelyn Sun	Grade 11	Town Redding
* Mu Alpha Theta --- Certificate, \$50 gift card to Amazon given by CSEF								
Shelton	Shelton High School	Christine McNamara	6018	PS	2	Is Connecticut's Water Quality Connected to its River Bank		
		Student(s)				Allison Brown	Grade 12	Town Shelton
* Randy Gibson Award for Earth Science Research --- \$100 cash and plaque								

Conn. Science & Engineering Fair

Special Award Winners

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

Shelton Shelton High School Ms. Festini
 6059 PS 2 The Efficiency of Various Airfoil Designs in a Wind Tunnel

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

* ISA - International Society for Automation - Ct. Valley Section --- 3rd - \$50 award

Shelton Shelton High School Dr. Tosca Rivera
 3122 LS 2 Biodegradable Plastic Study to Prevent Oceanic Pollution

Student(s) Marissa Peck **Grade 11** **Town Shelton**

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

Shelton Shelton High School Mrs. Dunham
 3055 LS 3 The Effects of Sea Squirts on the Habitats of Native Species in Long Island Sound

Student(s) William Simics **Grade 12** **Town Shelton**

* Banning Family Life Science Award --- For excellence in invasive species research, \$100 cash

Shelton Shelton High School Charles Fowler
 6081 PS 1 How does pitch effect turbine efficiency

Student(s) Jacob Zuklie **Grade 10** **Town Shelton**

* American Society for Quality - Thames Valley Section --- \$250 Cash Award

Southington J.A. DePaolo Middle School Ms. Shea
 5008 P7 1 Battle of the Loops

Student(s) Faith Kosior **Grade 7** **Town Southington**

* Connecticut College-Physics, Astronomy, & Geophysics Dept. --- \$150 and certificate, Junior Physics & teeshirt
 * Dreams Unlimited Award --- \$100 Cash Award + Certificate

Southington J.A. DePaolo Middle School Ms. Shea
 4034 PT 2 Are Southington Ponds Safe? Or not Safe?

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

* Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash

Stamford Beacon School John Henderson
 6077 PS 2 Providing a Design Suggesting the Viability of IHTP Thrusters for Commercial Use

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

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

Conn. Science & Engineering Fair

Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Stratford	St. Mark School	Mrs. Orendorf	1019	LT	1	Sugar Uncovered		
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Student(s)	Natalie Sciallo	Grade 8	Town	Stratford
	Kelly DeRosa	Grade 8	Town	Stratford

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

Suffield	Suffield High School	Mr. Charkiewicz	6082	PS	2	Studying the Applications of Solar Wind Pressure through Construction of a Muon Detection Chamber		
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Student(s)	Lukas Baker	Grade 12	Town	Suffield
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* ISA - International Society for Automation - Ct. Valley Section --- 1st - \$125 award

Suffield	Suffield High School	Mitchell Charkiewicz	3064	LS	2	Measuring Reaction Times to Visual and Auditory Stimuli		
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Student(s)	Caitlin Kirschbaum	Grade 11	Town	Suffield
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* American Society of Safety Engineers, CT Valley Chapter --- \$150 grade 9-12 project

Suffield	Suffield High School	Mitchell Charkiewicz	3505	LST	3	How the Sediment From Water Help to Affect Crop Yield of Pea Plants		
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Student(s)	Jason Werenski	Grade 11	Town	Suffield
	Yash Mehta	Grade 11	Town	Suffield

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

Tolland	Stonewall Academy	Donald Peck	6085	PS	1	Designing an Airfoil Spinner to Improve the Efficiency of Horizontal Axis Wind Turbines		
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Student(s)	Amelia Peck	Grade 10	Town	Tolland
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- * Mu Alpha Theta --- Certificate, \$50 gift card to Amazon given by CSEF
- * Constellation, an Exelon Company --- 1st: \$200.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy
- * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, high school, \$100 cash award
- * Arthur Mensing Award --- \$1000 cash award for excellence in the physical sciences
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Energy & Transportation

Trumbull	Christian Heritage School	Daniel Cote	6001	PS	2	Efficient green energy: The design, fabrication and testing of a Helio-tracker sunflower style power generator for enhancing the efficiency of solar power generation		
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Student(s)	Chengwen Hu	Grade 11	Town	Madison
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* Coherent, Inc. Richard Hart Award for Excellence in Photonics --- \$300 cash, plaque, invitation to lunch and tour Coherent factory

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	6056	PS	1	Object Detection for Autonomous Drone Navigation		
			Student(s)		Hannah Shipman	Grade 11	Town	Trumbull
* Skills21 at EDUCATION CONNECTION --- \$100 For innovative use of technology to advance science or engineering								
Trumbull	Christian Heritage School	Mrs. Oshin	2525	L8	1	Will Seeds Be Affected by Space Exposure		
			Student(s)		Benjamin Wolf	Grade 8	Town	New Haven
* U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate								
Trumbull	Christian Heritage School	Daniel Cote	6047	PS	2	Self-regulated LED Dimming System for Reduction of Eyestrain and Energy Consuming		
			Student(s)		Xuezheng Wu	Grade 11	Town	Orange
* IEEE, Connecticut Section --- \$100 Honorable Mention * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Engineering: Electrical								
Wallingford	Choate Rosemary Hall	Allison Nishitani	6072	PS	2	Preventing Traffic Fatalities With Ultraviolet and Ultrasonic Technology		
			Student(s)		Jonathan Wu	Grade 9	Town	Wilton
* American Society of Safety Engineers, CT Valley Chapter --- \$150 grade 9-12 project								
Waterford	Waterford High School	Mrs.Castleberry	3098	LS	2	Novel Methods for Healthier Deep Frying by Limiting Oxidation of Cooking Oils		
			Student(s)		Sophie Wang	Grade 10	Town	Waterford
* Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to dinner * University of Connecticut - Physics Department --- UCONN Early College Experience Program: Life Sciences - Co-Op \$100 Gift Certificate								
West Hartford	St. Timothy Middle School	Mrs. Breen	2011	L7	1	Flour Power		
			Student(s)		Christopher Baldini	Grade 7	Town	West Hartford
* Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner								
West Hartford	St. Timothy Middle School	Mrs. Christina Simao-Breen	5550	P8	1	Sustainable Wireless Powered House		
			Student(s)		Steven Liu	Grade 8	Town	West Hartford
* Constellation, an Exelon Company --- 1st: \$125.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy								
Weston	Weston Middle School	David Rosvally	5020	P7	2	Natural Water Filters		
			Student(s)		Jade Dayton	Grade 7	Town	Weston
* American Meteorological Society --- Certificate & \$50 Amazon gift card given by CSEF								

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

Westport Staples High School Mrs. Thompson
 3051 LS 3 What the Capturing and Recapturing of Limulus polyphemus Reveal about their Ecological Patterns of Spawning and Migration

Student(s) Paul Tricarico **Grade** 12 **Town** Westport

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

Westport Staples High School Nick Morgan
 6502 PST 1 Synthesis, Characterization, and Application of Noble Metal and Noble Metal Alloy Nanoparticles to Proton Exchange Membrane Fuel Cells for Enhanced Catalytic Activity

Student(s) Xiaotian Zhang **Grade** 12 **Town** Westport

Arun Soni **Grade** 12 **Town** Westport

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

Wilton Middlebrook Middle School Paige Randall
 2065 L7 1 Banana Peels: Second Life as a Water Purifier

Student(s) Anika Bhagavatula **Grade** 7 **Town** Wilton

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

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

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

Wilton Middlebrook Middle School Paige Randall
 5023 P7 1 Building a Battery

Student(s) Nina Ferrucci **Grade** 7 **Town** Wilton

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

Wilton Middlebrook Middle School Mrs. Jessica Garcia
 5556 P8 2 Building Fire-Resistant Homes

Student(s) Vignesh Subramanian **Grade** 8 **Town** Wilton

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

Windsor Academy of Aerospace and Engineering Dr. Lili Aramli
 3067 LS 2 Improvements in Chemotherapy: The Implementation of HSP90 Inhibitors in the Suppression of Chemoresistance

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

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

Windsor Academy of Aerospace and Engineering Dr. Lili Aramli
 3042 LS 2 An Electronic Neural Model of the Patellar Reflex Arc

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

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

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

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

Conn. Science & Engineering Fair

Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Windsor	Greater Hartford Academy of Math & Science	Dr. Lili Aramli	3102	LS	2	Effects of Cinnamon Powder and Oil on Escherichia Coli		
					Student(s)	Jack Breton	Grade 11	Town Wethersfield
* Society for In Vitro Biology --- Certificate and \$50 gift card to Amazon given by CSEF								
Windsor	St. Gabriel School	Mrs. Rosa	4021	PT	1	What shapes your Chute?		
					Student(s)	Kennedy Tor	Grade 8	Town Windsor
						Sean Glick	Grade 8	Town Windsor
* American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate								
Windsor	The Loomis Chaffee School	Koby Osei-Mensah	3097	LS	2	investigating the cardiac effect of toxicity by microwaved plastic products using Daphnia magna.		
					Student(s)	HyunWoo Lew	Grade 11	Town Windsor
* Society for In Vitro Biology --- Certificate and \$50 gift card to Amazon given by CSEF								
Woodbridge	Amity Regional High School	Deborah Day	6501	PST	3	Creating a Mobile School Navigation App		
					Student(s)	Vince Li	Grade 10	Town Orange
						David Wang	Grade 12	Town Bethany
* Intel Excellence in Computer Science Award --- \$200 & certificate								
* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Computer Science								
Woodbridge	Amity Regional High School	Deborah Day	3066	LS	1	Developing a Novel Progranulin-Derived Biologic for Gaucher disease		
					Student(s)	Helen Liu	Grade 12	Town Orange
* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Microbiology								
Woodbridge	Amity Regional High School	Ms. Deborah Day	6080	PS	2	The Effect of Air Pressure on the Distance of a Soccer Kick		
					Student(s)	Henry Molot	Grade 10	Town Woodbridge
* University of Connecticut - Physics Department --- UCONN Physics Department - Co-Op \$100 Gift Certificate								
Woodbridge	Amity Regional High School	Ms. Deborah Day	6521	PST	1	Designing a Ventricular Assist Device Using Ferrofluids and Electromagnets as an Actuating Mechanism		
					Student(s)	Sarah Saxe	Grade 11	Town Woodbridge
						Julia Nadelmann	Grade 11	Town Woodbridge
* IEEE, Connecticut Section --- \$100 Honorable Mention								
* Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a High School student, \$200 cash								

Conn. Science & Engineering Fair

Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Woodbridge	Amity Regional High School	Deborah Day	3514	LST	2	Integration of Auditory and Visual Features of Speech Perception in Schizophrenia: A Neurophysiological Investigation of the McGurk Effect		
		Student(s) Yiran Zhang						Grade 12 Town Orange
		Eli Silvert						Grade 12 Town Woodbridge

* American Psychological Association --- Certificate, \$50 gift card to Amazon given by CSEF