



Connecticut Science & Engineering Fair

Quinnipiac University

March 11 - 16, 2019

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 Brigette Zacharczenko

2520	L8	1	Defensive Behavior of Tobacco Hornworm Caterpillars					
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Student(s) Tyler Andrews **Grade** 8 **Town** Torrington

- * J.A. Augustine Award --- \$100 for excellence in biology
- * Henderson Award --- Certificate and \$25 Amazon Gift Card given by CSF

Avon Talcott Mountain Academy Brigette Zacharczenko

2530	L8	2	Survey of Common Types of Cyanobacteria and its Toxins Found in the Recreational Areas of CT					
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Student(s) Anishka Perera **Grade** 8 **Town** Torrington

- * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- * American Society of Safety Professionals, CT Valley Chapter --- \$100 grade 7-8 project
- * Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash

Avon Talcott Mountain Academy Lydia Gibb

2515	L8	2	The Bubble					
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Student(s) Leo Southam **Grade** 8 **Town** Shelton

- * Fuss & O'Neill, Inc. --- \$200 Award for Excellence in Environmental Sciences

Bethany Amity Middle School - Bethany Kevin Berean

4025	PT	1	Artificial Pancreas to Regulate Blood Sugar Levels					
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Student(s) Anchal Bahel **Grade** 8 **Town** Woodbridge
Nina Carmeli **Grade** 8 **Town** Woodbridge

- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * ISA - International Society for Automation - Ct. Valley Section --- 1st - \$125 award

Bethany Amity Middle School - Bethany Kevin Berean

4009	PT	1	Coral Explorer					
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Student(s) Zoe Fleischman **Grade** 8 **Town** Woodbridge
Aadya Wijesekera **Grade** 8 **Town** Bethany

- * ISA - International Society for Automation - Ct. Valley Section --- 2nd - \$75 award
- * Spirit of Invention Award --- \$100 Cash and Plaque for Inventive Concepts

Bethany Amity Middle School - Bethany Kevin Berean

2528	L8	3	Purifying Grey Water Using a Constructed Wetland					
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Student(s) Nell Grant **Grade** 8 **Town** Woodbridge

- * Southeastern New England Marine Educators (SENEME) --- \$100 award and membership in SENEME - 1st Place Junior & T-Shirt
- * The Karen J. Howell Middle School Award for "Learning and Serving" --- The Karen J. Howell Middle School Award for "Learning and Serving" - \$1000

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Special Award Winners

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Bethany	Amity Middle School - Bethany	Kevin Berean	4005	PT	1	Multifunctional Temperature Sensor		
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Student(s)	Annie Liu	Grade 8	Town	Woodbridge
	Melinda Lu	Grade 8	Town	Woodbridge

- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * Dreams Unlimited Award --- \$100 Cash Award + Certificate

Bethany	Amity Middle School - Bethany	Kevin Berean	4019	PT	3	Waste Watchers		
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Student(s)	Elise Sheehe	Grade 8	Town	Bethany
	Audrey Cummings	Grade 8	Town	Woodbridge
	Anushka Acharya	Grade 8	Town	Bethany

- * Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre
- * Connecticut Technology Council Young Woman Innovation Award --- \$150 Cash Award for Technological Innovation by a female project

Bethany	Amity Middle School - Bethany	Kevin Berean	5524	P8	3	Wind Turbine Tree		
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Student(s)	Mingyue Zha	Grade 8	Town	Woodbridge
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- * Constellation, an Exelon Company --- 2nd: \$50.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
- * Connecticut Association for the Gifted --- Leonardo Davinci 7-8 Grade \$50 Gift Certificate

Bethel	Bethel High School	Joseph Grand	6099	PS	2	Testing How Different Materials Reduce Frequency and the Effectiveness of that Material in Reducing White Noise		
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Student(s)	Brian Salvador	Grade 12	Town	Bethel
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- * American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 9-12 project
- * Connecticut Academy of Audiology --- \$150 Award MS- For Excellence in Audiology and Acoustics, oport. to shadow an audiologist

Bethel	St. Mary School	Kate McDonald	5518	P8	2	#SAVETHESISIP		
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Student(s)	Kerry Tuccinardi	Grade 8	Town	Bethel
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- * Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School, Physical Sciences

Bozrah	Fields Memorial School	Mrs. E Brown	5526	P8	1	Piezo Energy Collection from Quake Vibrations		
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Student(s)	Alanna Brady	Grade 8	Town	Bozrah
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- * POWER Engineers --- \$200 for " Excellence in Electrical Engineering- emphasis on Power Electronics" - Middle School

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Bozrah	Fields Memorial School	Mrs. Evelyn Brown	5530	P8	2	Facial Recognition using Raspberry Pi and Python		
			Student(s)		Leah Manke	Grade 8	Town	Bozrah
* Robert Francoeur Memorial Award --- Creative or innovative project in electrical engineering or computer science by female students - \$200								
Bozrah	Fields Memorial School	Evelyn Brown	5025	P7	1	Recovering Energy From an A/C Unit Condenser Exhaust Fan		
			Student(s)		Elle Okoney	Grade 7	Town	Bozrah
* U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate * National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF * The Children's Museum --- 1 family 4-Pack of Admission Passes to the Children's Museum * Society of Women Engineers - Hartford Section --- Scientific Calculator * Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related								
Bozrah	Fields Memorial School	Mrs. Evelyn Brown	2508	L8	1	A Gravimetric and Microscopic Analysis of the Decomposition Rates of Leaves from Different Species of Trees in Varied Climates.		
			Student(s)		Norah Tracy	Grade 8	Town	Gilman
* Yale Peabody Museum --- One-Year Family Membership to the Yale Peabody Museum								
Bridgeport	Black Rock School	Alexis Davis	5532	P8	2	Tracking Geomagnetic Storms in the Ionosphere		
			Student(s)		Yousra Oukassi	Grade 8	Town	Bridgeport
* American Meteorological Society --- Certificate & \$25 gift card given by CSEF								
Bridgeport	Bridgeport Military Academy	Samantha Peck	3039	LS	3	What Type of Tourniquet Will Stop The Bleed Faster?		
			Student(s)		Vincent Porcaro	Grade 9	Town	Easton
* American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 9-12 project								
Bridgeport	Bridgeport Regional Aquaculture Center	Mr. Shadle	6074	PS	2	Sorption of Hydrogen Sulfide Contaminates Through Methyl Diethanolamine Doped Ceramic Beads Coupled With a Piperazine Catalyst		
			Student(s)		Erica Carpenter	Grade 12	Town	Trumbull
* GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Future Sustainability * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Sustainability								
Bridgeport	Bridgeport Regional Aquaculture Center	Mr. Shadle	6093	PS	2	Geospatial Analysis of the Martian Surface to Promote the Growth of Photosynthetic Exoagriculture		
			Student(s)		Nick Fawcett	Grade 12	Town	Fairfield
* U.S. Metric Association --- Certificate & \$25 Amazon gift card given by CSEF								

Conn. Science & Engineering Fair

Special Award Winners

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

Bridgeport Bridgeport Regional Aquaculture Center Mr. Shadle
 6079 PS 2 Maximizing Photodynamic Therapy Through Highly Focused Beam of 200 nanometer - 400 nanometer to Promote Cellular Lysis

Student(s) Jeremy Garskof **Grade** 12 **Town** Fairfield

* Demos R Us Award --- \$200 Cash Award- Clear Execution of Research- High School

Bridgeport Bridgeport Regional Aquaculture Center Mr. Shadle
 6001 PS 1 Enhancing Dye Sensitized Solar Cell Efficiency Through the Application of a Silica Structure Microfilm Layer

Student(s) Camryn Mazerolle **Grade** 12 **Town** Shelton

* GENIUS Olympiad --- GENIUS Olympiad Competition for 2nd Place HS Alternative/Renewable Energy Project
 * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Energy & Transportation

Bridgeport Bridgeport Regional Aquaculture Center Mr. Shadle
 3027 LS 2 Phytoremediation of 17 β Estradiol Using Lemna minor in Freshwater Bodies

Student(s) Joshua Salem **Grade** 12 **Town** Trumbull

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

Bridgeport Bridgeport Regional Aquaculture Center - BCF Mr. Shadle
 6032 PS 2 Biofiltration of Ferric Iron Utilizing Citrus Biowaste to Mitigate Freshwater Harmful Algal Blooms.

Student(s) Malcolm Katz **Grade** 12 **Town** Fairfield

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

Bridgeport Bridgeport Regional Aquaculture Center - BCF Mr. Shadle
 6026 PS 2 Development of Self Adjusting Slip Clutch Vertical Axis Wind Turbine to Eliminate Torque Damage in High Wind Speeds

Student(s) Gavin Krois **Grade** 12 **Town** Milford

* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
 * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2019 Invention Convention, May 4

Bridgeport Fairchild Wheeler Interdistrict Magnet Ms. Good
 6522 PST 3 The Efficiency of Wind Turbine Blades

Student(s) Mya Zayas **Grade** 9 **Town** Bridgeport
 Chandini Kalidindi **Grade** 9 **Town** Trumbull

* Tunxis Community College --- \$623 Course Tuition Voucher for HS Senior Sustainable Energy Project

Bridgeport Interdistrict Discovery Magnet School Helena Coatsworth
 5030 P7 2 The Heat is On

Student(s) Amelia Bragg-Phillips **Grade** 7 **Town** Stratford

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

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Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Bridgeport	Interdistrict Discovery Magnet School	Helena Coatsworth	2501	L8	2	Does Color Effect Memory Retention?		
					Student(s)	Zoe Curtin	Grade 8	Town Bridgeport
* American Psychological Association --- Certificate, \$25 gift card given by CSEF								
Bridgeport	Park City Prep Charter School	Mrs. Boudreau	1016	LT	3	Which Parsley is better?		
					Student(s)	Gabriella-elise Rodrigues	Grade 7	Town Waterbury
						Sara Pacheco	Grade 7	Town bridgeport
* Association for Women Geoscientists --- Certificate & \$25 girt card given by CSEF								
Bridgeport	Park City Prep Charter School	Mrs. Boudreau	2512	L8	2	Turmeric as an Antioxidant		
					Student(s)	Laniyah Schultz	Grade 8	Town Bridgeport
* U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate								
Brookfield	Saint Joseph Catholic Academy	Mrs. Dimon	2003	L7	3	The Effect of Ocean Acidification on Crepidula Fornicata		
					Student(s)	Abigail Cristaudo	Grade 7	Town Brookfield CT
* Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF								
Brookfield	Saint Joseph Catholic Academy	Marde Dimon	5516	P8	2	HOW DOES THE TYPE OF FILTER AFFECT THE AMOUNT OF PHOSPHORUS SEPARATED FROM LANDSCAPE RUNOFF		
					Student(s)	Liam TeeKing	Grade 8	Town Brookfield
* The Goodwin-Niering Center for the Environment --- \$100 for "Excellence in Environmental Conservation Studies"								
Brookfield	Saint Joseph Catholic Academy	Mrs. Dimon	2502	L8	3	The Effect of Fertilizer on Algae		
					Student(s)	Sania Toprani	Grade 8	Town New Milford
* Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum								
Canton	Canton High School	Stephen Riley	6050	PS	2	Analyzing the Structure of Protostellar Core Clusters in an Infrared Dark Cloud		
					Student(s)	Colton Glasgow	Grade 12	Town Canton
* Astronomical Society of Greater Hartford --- Senior Project-\$150, subscription to Sky and Telescope, ASGH membership and meeting invitation								
Danbury	Danbury High School	Meghan Bresson	6063	PS	2	Engineering a Polylectic Biomimetic Micro Aerial Vehicle to Pollinate Flowers		
					Student(s)	Khushi Parikh	Grade 9	Town Danbury
* Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Physical Sciences								

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Danbury	Saint Joseph School	Jennifer Reilly	5539	P8	1	Recycled Plastics As Insulation For Energy Efficient Homes		
Student(s) Georen Chirayil					Grade 8	Town Danbury		

* Demos R Us Award --- \$150 Cash Award- Clear Execution of Research- 8th Grade

Danbury	St. Gregory the Great School	Christine Fahey	5517	P8	1	Testing Different Nano-Particle Inks as Electrodes in a Sunlight-Seeking. Printed, Bio-Photovoltaic System		
Student(s) Maximilien Coisman					Grade 8	Town Danbury		

* National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF
 * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, high school, \$100 cash award

Danbury	St. Gregory the Great School	Mrs. Christine Fahey	2503	L8	2	The Effects of Oil on the Removal of Microplastics From Water		
Student(s) Aiden Doolabh					Grade 8	Town Danbury		

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

Danbury	St. Gregory the Great School	Mrs. Fahey	2518	L8	1	ONE MAN'S TRASH IS ANOTHER MAN'S ENERGY		
Student(s) Thomas Fanelli					Grade 8	Town Danbury		

* Sister Mary Christine Life Sciences Award --- \$100 for excellence in the life sciences by a catholic middle school project
 * Frank J. Link Family Award for Energy Related Research --- Frank J. Link Award for Energy Related Research - \$50

Danbury	Westside Middle School Academy	Jonathan Neuhausel	2020	L7	1	Design, testing, and optimization of Kombucha scoby-based biofilms.		
Student(s) Gabriella Brown					Grade 7	Town Danbury		

* Peer-to-Peer Awards --- 7th Grade Life Sciences - \$300 Amazon Gift Card

Danbury	Westside Middle School Academy	Mr. Neuhausel	5005	P7	1	Good Up High, Bad Near By		
Student(s) Annabella Jardim					Grade 7	Town Danbury		

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

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Danbury	Westside Middle School Academy	Jonathan Neuhausel	5509	P8	1	The Study of Effectiveness of Different Separation Methods in Removing Suspended Microplastics from Water		
					Student(s)	Srishti Ramakrishnan	Grade 8	Town Danbury
<ul style="list-style-type: none"> * National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEFF * Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Phys Science * Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related * Urban School Challenge 1st Place Middle School Awards --- Highest Placing 8th grader- GENIUS-Olympiad Competition -\$500 travel stipend (See Sponsor 421) * GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project 								
Danbury	Westside Middle School Academy	Jonathan Neuhausel	2024	L7	1	Molecular Health Indices of the Kalmia Latifolia		
					Student(s)	Maria Eduarda Sousa Lopes	Grade 7	Town Danbury
<ul style="list-style-type: none"> * Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Life Science * Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash 								
Danbury	Westside Middle School Academy	J. Neuhausel	5027	P7	1	DIY WiFi Booster		
					Student(s)	Chase Tomaino	Grade 7	Town Danbury
<ul style="list-style-type: none"> * U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp 								
Fairfield	Fairfield College Preparatory School	Mrs. Kiel	3068	LS	2	Oil Spill Bioremediation		
					Student(s)	Antonios Boudreau	Grade 10	Town Ansonia
<ul style="list-style-type: none"> * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR 								
Fairfield	St. Thomas Aquinas Catholic School	Philip Flynn	4007	PT	1	Wind Energy		
					Student(s)	Andrew Cimmino	Grade 8	Town FAIRFIELD
						Joshua Dixon	Grade 8	Town Bridgeport
<ul style="list-style-type: none"> * Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF * J.A. Augustine Award --- \$100 for excellence in physical sciences 								
Glastonbury	Glastonbury High School	Ms. Diane Pintavalle	6091	PS	1	SELECTIVE OXIDATION OF BENZYL ALCOHOL TO BENZALDEHYDE USING A VANADIUM DOPED CERIA MESOPOROUS CATALYST		
					Student(s)	Ananya Aggarwal	Grade 11	Town South Glastonbury
<ul style="list-style-type: none"> * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Chemistry 								

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

Greens Farms Greens Farms Academy Dr. Mathieu Freeman

3111	LS	2	Trx2 Deficiency Induced Impaired Mitochondrial Integrity and Adipocyte Dysfunction
Student(s) Grace McGonagle			Grade 12 Town Southport

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

Greens Farms Greens Farms Academy Mathieu Freeman

3104	LS	1	The Effects of Mobile Phone Induced Radiation on Honeybee Behavior
Student(s) Quinn Mullineaux			Grade 12 Town Fairfield

* Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a High School student, \$200 cash
 * Peer-to-Peer Awards --- High School Life Sciences - \$300 Amazon Gift Card

Greens Farms Greens Farms Academy Modupe Oshin

5008	P7	2	PediGenerator: Turning Steps Into Energy Using PiezoElectric Generators to harness, convert and store the energy needed to charge a mobile device
Student(s) Tolani Oshin			Grade 7 Town West Haven

* Constellation, an Exelon Company --- 1st: \$100.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
 * Frank J. Link Family Award for Energy Related Research --- Frank J. Link Award for Energy Related Research - \$50

Greens Farms Greens Farms Academy Ms. Modupe Oshin

5003	P7	1	Mobility Assistance Device for the Visually Impaired
Student(s) Chad Ruggiero			Grade 7 Town Greenwich, CT

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

Greenwich Brunswick School Dana Montanez

3521	LST	1	Extracting, Cloning, and Targeting the Glyceraldehyde 3-Phosphate Dehydrogenase Gene in Invasive Plant Species
Student(s) Logan Darrin			Grade 11 Town Greenwich
David Swigart			Grade 11 Town Greenwich

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

Greenwich Brunswick School Dana Montanez

6046	PS	3	Oil Containment following an Accidental Spill: Temporarily preventing the spread of crude oil in Aquatic Environments
Student(s) Lucas Delgado			Grade 11 Town Riverside

* Mystic Aquarium - Sea Research Foundation --- \$100 and 4 Admission Tickets to Mystic Aquarium

Greenwich Brunswick School Dana Montanez

6077	PS	2	The Utilization Of a Miniaturized Wind Turbine to Charge An Electronic Device Using The Wind Produced By Blowing
Student(s) Noah Levi			Grade 10 Town Wilton

* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2019 Invention Convention, May 4

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Greenwich	Brunswick School	Dana Montanez	3028	LS	2	Creation and Development of a Neural Network to Diagnose Alzheimer's Disease and Dementia		
					Student(s)	Jamison Meindl	Grade 11	Town Riverside
<ul style="list-style-type: none"> * Intel Excellence in Computer Science Award --- \$200 & certificate * Mu Alpha Theta --- Certificate, \$25 gift card given by CSEF 								
Greenwich	Brunswick School	Dana Montanez	3505	LST	1	Developing an Organic Buffer System to Negate Oceanic Algal Blooms and Acidification		
					Student(s)	Colin Mulshine	Grade 10	Town Riverside
						Brooks Ferguson	Grade 10	Town Greenwich
<ul style="list-style-type: none"> * Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition 								
Greenwich	Greenwich Country Day School	Sam Rosenfeld	5553	P8	1	Tracking Plastic Bottles on Blockchain - Better Environmental Policies and Accountability through Economic and Accurate, Real-Time Management		
					Student(s)	C. Brooks Harris	Grade 8	Town Greenwich
<ul style="list-style-type: none"> * Society of Women Engineers - Hartford Section --- Scientific Calculator 								
Greenwich	Greenwich High School	Andrew Bramante	6068	PS	2	Measuring Convexnesses of Electoral Districts Using Graph Theory to Flag Potentially Gerrymandered Districts		
					Student(s)	Sam Florin	Grade 10	Town Greenwich
<ul style="list-style-type: none"> * Intel Excellence in Computer Science Award --- \$200 & certificate 								
Greenwich	Greenwich High School	Andrew Bramante	6089	PS	1	Single-Use, Insulative Tableware Made from Cornstarch and a Hydrophobic Edible Thin Film, as a Biodegradable Replacement for Styrofoam		
					Student(s)	Tyler Fox	Grade 11	Town Cos Cob
<ul style="list-style-type: none"> * Connecticut Science Supervisors Association --- \$125 for a high school project * Robotics And Beyond --- HS- For Excellence in Material Science- \$200 for Robotics And Beyond STEM Design Camp or Academy 								
Greenwich	Greenwich High School	Andrew Bramante	3093	LS	2	"Magnetically-Positioned, Lipase-Induced Degradation of Arterial Plaques with Simultaneous Smartphone Detection of Post-Dissolution Products."		
					Student(s)	Hiba Hussain	Grade 11	Town Old Greenwich CT
<ul style="list-style-type: none"> * Connecticut Association for the Gifted --- Leonardo Davinci Award 9-12 Grade \$50 Gift Certificate * University of Hartford --- University of Hartford Scholarship- For Excellence in Engineering, Science or Mathematics \$26,000 								

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

Greenwich Greenwich High School Andrew Bramante

3007	LS	1	Control of Varroa Destructor Infestation with a Dual-function, Thymol-Emitting Honey Bee Hive
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Student(s) Raina Jain **Grade** 11 **Town** Riverside

- * Fuss & O'Neill, Inc. --- \$200 Award for Excellence in Alternative/Renewable Energy
- * University of Hartford --- University of Hartford Scholarship- For Excellence in Engineering, Science or Mathematics \$26,000
- * TurnKey Compliance Solutions Environmental Awards --- \$300 Cash Award High School- For excellence in environmental sciences
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Environmental Science
- * University of Connecticut Academic Excellence Scholarship --- Academic Excellence Scholarship - \$6,500 a year for four academic years- (\$26,000 total)
- * Lunch with a Patent Attorney --- Lunch with a Patent Attorney

Greenwich Greenwich High School Andrew Bramante

3106	LS	1	Rapid, Low-cost, Paper-based Immunosensor for Early Detection of Dengue Virus via Salivary Dengue NS1 Antigen
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Student(s) Matthew Jester **Grade** 11 **Town** Greenwich

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

Greenwich Greenwich High School Andrew Bramante

6017	PS	2	Development of Highly-Efficient, Earth-Abundant Crystalline Perovskite - Carbon Film Solar Cells
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Student(s) Anne-Emilie Rouffiac **Grade** 11 **Town** Greenwich

- * POWER Engineers --- \$200 for " Excellence in Electrical Engineering- emphasis on Power Electronics" - High School
- * Jon Stone Memorial Award --- \$100 cash for Innovative Engineering

Greenwich Greenwich High School Andrew Bramante

6036	PS	1	Portable, Simple Filtration of (Modeled) V. cholerae Infected Water using Electrified, Silver-SWCNT Nanostructures within a Sari-Cloth Textile
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Student(s) Shun Sakai **Grade** 11 **Town** Greenwich

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

Greenwich Greenwich High School Andrew Bramante

3088	LS	2	Design of a Dual-Acting Riboflavin and UV-Enhanced Contact Lens Disinfecting System
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Student(s) Justin Speaker **Grade** 11 **Town** Greenwich

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

Greenwich Greenwich High School Mr. Andy Bramante

6094	PS	2	Using Vibrational Spectroscopy to Analyze DNA in Museum-type Bone Specimens
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Student(s) John Trudeau **Grade** 9 **Town** Greenwich

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

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

Greenwich Greenwich High School Andrew Bramante

6002 PS 2 Simple Creation of Portable Renewable Energy using a Recycled/Repurposed Water Bottle – C. reinhardtii Biophotovoltaic System

Student(s) Zachary Wang **Grade** 11 **Town** Greenwich

- * Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, air pollution related
- * University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Frontiers in Science - Co-Op \$100 Gift Certificate

Greenwich Greenwich High School Andrew Bramante

3030 LS 1 Rapid, Smartphone-Based Diagnosis of Skin Melanoma through Differences in Tumor Cell Thermal Regulation Combined with Diffuse Spectroscopic Analysis

Student(s) Melissa Woo **Grade** 11 **Town** Riverside

- * Lunch with a Patent Attorney --- Lunch with a Patent Attorney

Greenwich Greenwich High School Andrew Bramante

3022 LS 2 Early Diagnosis and Tracking of Parkinson's Disease via Supervised Machine Learning Algorithms

Student(s) Kyle Xiong **Grade** 11 **Town** Riverside

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

Groton Sacred Heart School Dr. Juan Pacheco

5523 P8 1 Building a Better Hearing Aid Using Noise Cancellation

Student(s) Payton Noe **Grade** 8 **Town** East Lyme

- * American Society of Safety Professionals, CT Valley Chapter --- \$100 grade 7-8 project
- * IEEE, Connecticut Section --- \$250 Honors Award -Junior
- * Connecticut Academy of Audiology --- \$200 Award HS- For Excellence in Audiology and Acoustics, opport. to shadow an audiologist
- * Broadcom MASTERS --- The Lemelson Early Inventor Prize
- * Zepke Awards --- \$100 - For the Best Use of Electronic Circuitry- Middle School

Groton Sacred Heart School Dr. Pacheco

2513 L8 3 Which fruit contains the most vitamin c?

Student(s) Jazmyn Towpasz **Grade** 8 **Town** Groton

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

Hamden Hamden Hall Country Day School Dr. Gasparro

2019 L7 1 Does Dog Saliva Kill Germs & What Else Might?

Student(s) Lorraine Hillgen-Santa **Grade** 7 **Town** Stratford

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

Hamden Hamden High School Sophia Michalatos

6004 PS 2 Diagnosing Parkinson's Disease with Artificial Intelligence

Student(s) Akshar Agarwal **Grade** 12 **Town** Hamden

- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * Biophysical Society --- Biophysics Award- \$100

Conn. Science & Engineering Fair

Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Hamden	Sacred Heart Academy	Pam Brownell	6503	PST	2	Creation of a Fire Resistant Membrane in the Makeup of a Wall		
		Student(s) Mia Celentano					Grade 10	Town Hamden
		Aliya Cameron					Grade 10	Town Hamden
* American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 9-12 project								
Hamden	Sacred Heart Academy	Dr. Sibani Sengupta	3110	LS	2	Exploring the World of Healing Herbs: Comparison of Antibacterial Properties in Coriandem Sativum, Ocimum Basilicum and Rosmarinus Officinalis		
		Student(s) Mehr Chhatre					Grade 9	Town Hamden
* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR								
* Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to Awards Night Dinner with guest								
* Sister Mary Christine Life Sciences Award --- \$150 for excellence in the life sciences by a catholic high school project								
* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Microbiology								
Hamden	Sacred Heart Academy	Katherine Tubis	6085	PS	3	Green, Clean, Solar Machine: An effective and Natural Way to Clean Solar Panels		
		Student(s) Julia DiAngelo					Grade 9	Town Wallingford
* Tunxis Community College --- \$623 Course Tuition Voucher for HS Senior Sustainable Energy Project								
Hamden	Sacred Heart Academy	Sibani Sengupta	3073	LS	3	In Search of the Perfect Broth : Investigating the Effect of Cook Time on Glutamate levels in Bone Broth		
		Student(s) Nikita Khanna					Grade 9	Town Derby
* Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to Awards Night Dinner with guest								
Hamden	Sacred Heart Academy	Dr. Sibani Sengupta	3044	LS	2	The Effect of Sucrose on Inhibiting Photosynthetic Pigments Found in Invasive Algae		
		Student(s) Julianna Milidantri					Grade 11	Town Durham
* Southeastern New England Marine Educators (SENEME) --- \$100 award and membership in SENEME - 1st Place Senior & T-Shirt								
Hartford	Environmental Sciences Magnet School at Mary	Becca Hays	2527	L8	2	Artemia Vs. Ocean Acidification		
		Student(s) Brianna Sanchez					Grade 8	Town enfield
* Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt & cap, First Place Junior								
* Peer-to-Peer Awards --- 8th Grade Life Sciences - \$300 Amazon Gift Card								
Hartford	Renzulli Academy	Raymond Cocola	2012	L7	3	Exhausted		
		Student(s) Damarion Stanford					Grade 7	Town Hartford
* U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate								

Conn. Science & Engineering Fair

Special Award Winners

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

Kent Kent School Ben Nadire

6048 PS 1 Intuitive Control Algorithm Development of 4WIS/4WID Using A SpaceMouse

Student(s) Taewook Kim **Grade** 11 **Town** Kent

- * IEEE, Connecticut Section --- \$250 Honors Award -Senior
- * Robotics And Beyond --- MS- For Excellence in Engineering Design- \$200 for Robotics And Beyond STEM Design Academy in July
- * Barker Mohandas Awards for Transportation Research --- \$200 Cash & Plaque for Excellence in Transportation Related Research- High School

Manchester Manchester High School Megan Rader

3076 LS 3 Nitrate absorbing plants effect on acidic water

Student(s) Cambria Andrews **Grade** 12 **Town** Manchester

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

Manchester Manchester High School Megan Rader

3024 LS 3 Application of Cyanobacteria Anthrospira Platensis as a Polyfiber Biopaper

Student(s) Tyler Greene **Grade** 12 **Town** Manchester

- * ASM Materials Education Foundation --- Certificate & \$25 gift card given by CSEF
- * Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre

Milford Platt Technical High School Mrs. Stamp

6528 PST 2 Flood Remediation In-House Dehumidification System

Student(s) Alain Bolduc **Grade** 11 **Town** Milford
 Adam-Nathaniel Soltis **Grade** 11 **Town** Stratford
 Scott Clark **Grade** 12 **Town** milford

- * Tunxis Community College --- \$623 Course Tuition Voucher for HS Senior Sustainable Energy Project

Milford Platt Technical High School Jessica Stamp

6524 PST 2 Natural Disaster Relief Housing

Student(s) Victoria St. Peter **Grade** 10 **Town** Hamden
 Alyssa Ciarleglio **Grade** 10 **Town** West Haven
 Johanatis Rivera **Grade** 11 **Town** Bridgeport

- * Ct Architecture Foundation - The William M. Mack, AIA Award --- \$250 Gift Certificate to Barnes and Noble from the Connecticut Architecture Foundation, William M. Mack, AIA Award.
- * Ct Architecture Foundation - The William M. Mack, AIA Award --- \$250 Gift Certificate to Barnes and Noble from the Connecticut Architecture Foundation, William M. Mack, AIA Award.
- * Technical High School Science & Technology Awards --- For Technological Excellent for a Technical High School Project

New Canaan St. Aloysius School Deborah Phillips

5011 P7 3 Remote Control Ceiling Car

Student(s) Sofie Brauweiler **Grade** 7 **Town** New Canaan

- * Barker Mohandas Awards for Transportation Research --- \$100 Cash & Plaque for Excellence in Transportation Related Research- Middle School
- * John S. Kendall Memorial Awards --- \$300 John S. Kendall Award for Excellence In Mechanical Engineering - Middle School

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
New Haven	Betsy Ross Arts Magnet School	Roisin Macdonald	2532	L8	1	From Clean to Clean		
Student(s) Matilda Pethrick					Grade 8	Town Stratford		
<ul style="list-style-type: none"> * U.S. Metric Association --- Certificate & \$25 Amazon gift card given by CSEF * Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum 								
New Haven	Hopkins School	Philip Stewart	3107	LS	1	Finding a therapy for Wolfram Syndrome: Exploring a calcium signaling pathway as a target for a disease without a cure.		
Student(s) Saira Munshani					Grade 11	Town Easton		
* Society for In Vitro Biology --- Certificate and \$25 Amazon gift card given by CSEF								
New Haven	St. Bernadette School	Kerry Martens	5547	P8	3	What Local Town is the Best for Stargazing?		
Student(s) Grace Gogliettino					Grade 8	Town New Haven		
* Astronomical Society of Greater Hartford --- Junior Project-\$150, subscription to Sky and Telescope, ASGH membership and meeting invitation								
New Haven	Wilbur Cross High School	Nick Farrell	3052	LS	1	Developing a Functional Tracheal Replacement Graft: Studying the Effects of Graft Stiffness on Host Response		
Student(s) Sophie Edelstein					Grade 12	Town New Haven		
<ul style="list-style-type: none"> * Otero Family Award --- The Otero Family Award; \$200 cash * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Biochemistry * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2019 Invention Convention, May 4 								
New Haven	Wilbur Cross High School	Brendan Hare	3020	LS	1	Association of Music Perception and Memory		
Student(s) Alexandra Northrup					Grade 10	Town New Haven		
* American Psychological Association --- Certificate, \$25 gift card given by CSEF								
New Haven	Worthington Hooker Middle School	Mr. Jones	5540	P8	1	Saving The Ocean: 700,000 Microplastics at a Time		
Student(s) Athena Brown					Grade 8	Town New Haven		
* Society of Women Engineers - Hartford Section --- Scientific Calculator								
New Haven	Worthington Hooker Middle School	Mr. Jones	1015	LT	3	The Greenhouse Effect		
Student(s) Hannah Ziesche					Grade 7	Town New Haven		
Student(s) Lucy June Dunn					Grade 7	Town New Haven		
* Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF								

Conn. Science & Engineering Fair

Special Award Winners

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

New London Science and Technology Magnet High School Isabella Moniz

3070	LS	1	The Correlation Between Nitrogenous Species and the Aboveground and Belowground Biomass of <i>Spartina alterniflora</i> (common cordgrass) in a restored Salt Marsh, Barn Island, CT
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Student(s) Sara Bouchard **Grade 11** **Town** Waterford

- * Yale Peabody Museum --- One-Year Family Membership to the Yale Peabody Museum
- * Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt & cap, First Place Senior
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 2nd Place HS Environmental Project
- * NYUC Pony Club Equine Award --- \$100 Cash Award or excellence in equine studies
- * Fox Pest Control Award for Environmental Management --- \$150 Cash for Excellence in Environmental Management

New London Science and Technology Magnet High School Mr.Mulligan

6034	PS	3	Correlations Between Home Insulator Composition and Potential Heat Retention
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Student(s) Jaylen Callender **Grade 10** **Town** uncasville

- * Tunxis Community College --- \$623 Course Tuition Voucher for HS Senior Sustainable Energy Project

New London Science and Technology Magnet High School Mr.Brown

3045	LS	2	Phytoremediation of Lead-Contaminated Water by Sunflowers
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Student(s) Laurelou Doyonnas **Grade 9** **Town** Mystic

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

New London Science and Technology Magnet High School Charles Mulligan

3021	LS	1	The Efficiency Of Copper Removal Using Phytoremediation Techniques
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Student(s) Skyler Hatter **Grade 10** **Town** GROTON

- * University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Life Sciences - Co-Op \$100 Gift Certificate

Newtown St. Rose of Lima School Mrs. Valerie Petrillo

5029	P7	1	How Does the Shape of an Airplane Affect Its Speed and Lift?
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Student(s) Rohan Carey **Grade 7** **Town** Sandy Hook

- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- * American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate

Norwich Norwich Technical High School Ernest Todd

6527	PST	3	Robotic Talking Head
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Student(s) Briana Diskin **Grade 11** **Town** Norwich

Justin Relaz **Grade 12** **Town** Norwich

- * Technical High School Science & Technology Awards --- For Technological Excellent for a Technical High School Project

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Norwich	Norwich Technical High School	Ms. Pelloni	3507	LST	1	Generation of probiotic strains with increased lactose degradation capabilities for lactose-free yogurt production		
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Student(s)	Jace Goodrow	Grade	11	Town	Lisbon
	Michel Hernandez	Grade	11	Town	Norwich
	Hailey Bill	Grade	12	Town	Baltic

* Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to Awards Night Dinner with guest

Redding	CT STEM Fair - Amity Regional High School	Catherine Piscitelli	3506	LST	2	Examining Eye Movement During Decision-Making to Characterize Attention in People with Obsessive-Compulsive Disorder		
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Student(s)	Thomas Livesay	Grade	12	Town	Woodbridge
	Summer Schaaf	Grade	12	Town	Woodbridge

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

Redding	CT STEM Fair - Amity Regional High School	Deborah Day	6005	PS	2	Real-Time Sinkhole detection using Civil Engineering techniques, the Internet of Things (IoT), and Artificial Intelligence		
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Student(s)	Sophia Wang	Grade	11	Town	Woodbridge
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* Yale Science & Engineering Association, Inc. --- 1 Certificate, Medallion and 1- \$25 gift card given by CSEF
 * Society of Women Engineers - Hartford Section --- Scientific Calculator
 * Geology/Historic Project of Merit Award --- \$50 - Earth Science - Field work with Geologic or historic value
 * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2019 Invention Convention, May 4

Redding	Joel Barlow High School	Paul Testa	3061	LS	1	The effect of Deuterium oxide (D2O) on the viability of Coliphage bacteriophages under Low temperatures as a model for stability in live attenuated viral vaccines		
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Student(s)	Annika Morgan	Grade	12	Town	Redding
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* Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Life Sciences
 * Peer-to-Peer Awards --- High School Life Sciences - \$300 Amazon Gift Card

Redding	Joel Barlow High School	Paul Testa	3049	LS	2	Analysis of PHA Plastic Biodegradation in Marine Environments		
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Student(s)	Zachary Shortt	Grade	11	Town	Easton
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* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
 * Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum

Redding	Joel Barlow High School	Paul Testa	6030	PS	3	Effects of Sulfides on Atmosphere		
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Student(s)	Matthew Sun	Grade	11	Town	Redding
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* American Meteorological Society --- Certificate & \$25 gift card given by CSEF

Conn. Science & Engineering Fair

Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Ridgefield	Ridgefield High School	Ryan Gleason	6016	PS	3	Single Stage to Orbit Spaceplane Utilizing Hybrid Propulsion Design Study		
			Student(s)		Josh Burns	Grade 12	Town	Ridgefield
* American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate								
Sandy Hook	Newtown High School	Timothy DeJulio	6083	PS	2	Computational Fluid Dynamics Study of Turbulence		
			Student(s)		Bryan Ingwersen	Grade 12	Town	Sandy Hook
* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR								
* John S. Kendall Memorial Awards --- \$500 John S. Kendall Award for Excellence In Mechanical Engineering - High School								
* Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics								
Shelton	Shelton High School	Ernest Pagliaro	6021	PS	3	Clean Screen		
			Student(s)		Kyle Young	Grade 11	Town	Shelton
* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2019 Invention Convention, May 4								
Shelton	Shelton Intermediate School	Dr. Napoli	5554	P8	2	Power Up Baseball Hits		
			Student(s)		Kenneth Supersano	Grade 8	Town	Shelton
* Samantha Freeman Award for Excellence in Sports Science or Engineering --- For Excellence in Sports Science or Engineering by a Middle School student, \$125 cash								
Stamford	Bi-Cultural Hebrew School	Chris Graseck	2001	L7	3	What Nutrients Help Azolla Grow? How Can We Use This To Fight Climate Change?		
			Student(s)		Esther Goldstein	Grade 7	Town	Ridgefield
* Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum								
Stamford	Scofield Magnet Middle School	Louise McMinn	5022	P7	1	Water Quality of the Rippowam River		
			Student(s)		Aryan Pandalai	Grade 7	Town	Stamford
* Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF								
Storrs	E.O. Smith High School	Cheryl Granger	6053	PS	2	Designing an Efficient Roof-Mounted Wind Turbine System		
			Student(s)		Mathew Chandy	Grade 10	Town	Storrs
* Constellation, an Exelon Company --- 2nd: \$100.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy								
* GENIUS Olympiad --- GENIUS Olympiad Competition for HS Environmental, Energy, Ecology, or Biodiversity Project								
* Tunxis Community College --- \$623 Course Tuition Voucher for HS Senior Sustainable Energy Project								

Conn. Science & Engineering Fair

Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Stratford	St. Mark School	Mrs. Lynn Olins	2509	L8	2	Deep Freeze Cell-e-bration (Cell cryopreservation in salt and sugar)		
					Student(s) Elizabeth Long	Grade 8	Town Milford	
* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF								
Stratford	St. Mark School	Mrs. Olins	5504	P8	2	Erosion in Motion		
					Student(s) Peter Pigiucci	Grade 8	Town Shelton	
* Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF								
Suffield	Suffield High School	Mrs. Brown	6060	PS	3	How Can Solar Power be Streamlined so it is More Cost Effective and Utilized Efficiently?		
					Student(s) Haley Young	Grade 10	Town West Suffield	
* Tunxis Community College --- \$623 Course Tuition Voucher for HS Senior Sustainable Energy Project								
Trumbull	Christian Heritage School	203-217-7498	6098	PS	2	Building and Testing a Radon Daughter Collector and Detector		
					Student(s) Mia Angelini	Grade 11	Town Trumbull	
* ISA - International Society for Automation - Ct. Valley Section --- 3rd - \$50 award * Westinghouse Electric Company/New England Chapter of North American Young Generation in Nuclear --- 1st place, Excellence in Energy Research, \$100 cash award								
Trumbull	Christian Heritage School	Mr. Cote	6065	PS	2	Getting the Most Out of Solar Panels		
					Student(s) Anda Liang	Grade 11	Town Trumbull	
* Tunxis Community College --- \$623 Course Tuition Voucher for HS Senior Sustainable Energy Project								
Trumbull	Christian Heritage School	Mr. Cote	6042	PS	2	The Effect of Magnets on the Performance of Bike Suspensions		
					Student(s) William Parrish	Grade 11	Town Milford	
* Samantha Freeman Award for Excellence in Sports Science or Engineering --- For Excellence in Sports Science or Engineering by a High School student, \$125 cash								
Trumbull	Christian Heritage School	Daniel Cote	2529	L8	1	Use of Bioluminescent Dinoflagellates to Detect Water Contaminants		
					Student(s) Samuel Tsao	Grade 8	Town OLD GREENWICH	
* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF * TurnKey Compliance Solutions Environmental Awards --- \$200 Cash Award Middle School- For excellence in environmental sciences								

Conn. Science & Engineering Fair

Special Award Winners

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

Wallingford Choate Rosemary Hall Professor Yannis K. Semertzidis

6025	PS	2	Beam Dynamics as a Function of Scraping Parameter Studies For the Muon g-2 Experiment at Fermilab/Chicago
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Student(s) Anjali Mangla **Grade** 11 **Town** Cheshire

* University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificat

West Hartford Bristow Middle School Janice LaVangie

5012	P7	2	A low-cost and efficient way to harvest biomechanical energy: Generating electricity from people during daily activities
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Student(s) Angela Zhang **Grade** 7 **Town** West Hartford

* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2019 Invention Convention, May 4

Westport Staples High School Karen Thompson

6510	PST	1	Optimization of High-Efficiency Organic-Inorganic Lead Halide Perovskite Solar Cells via a Novel Polycaprolactone Additive Pathway
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Student(s) Sirina Prasad **Grade** 12 **Town** Westport

Anisa Prasad **Grade** 12 **Town** Westport

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

Wilton Middlebrook Middle School Mrs. Mallozzi

5510	P8	1	Fighting Wildfires with Data from Satellite Remote Sensors.
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Student(s) Gayathri Kaimal **Grade** 8 **Town** Wilton

* American Meteorological Society --- Certificate & \$25 gift card given by CSEF
 * Connecticut Science Supervisors Association --- \$125 for a middle school project

Wilton Middlebrook Middle School Mrs. Garcia

5502	P8	1	Alternative Household Method to Extinguish Fires
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Student(s) Keerthi Vijay **Grade** 8 **Town** Wilton

* American Society of Safety Professionals, CT Valley Chapter --- \$100 grade 7-8 project
 * Jon Stone Memorial Award --- \$100 cash for Innovative Engineering

Windsor Academy of Aerospace and Engineering Dr. Lili Arami

6009	PS	3	How can commercially available consumer-level modern wearable technology devices be adapted and applied to the biomedical field?
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Student(s) Rishan Annadurai **Grade** 11 **Town** Newington

* Wisner Award --- \$350 cash

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

Windsor Academy of Aerospace and Engineering Dr. Bellinger
 6506 PST 2 Effect of varying shape memory alloys on the folding mechanism of a pollination device and the efficiency of the collection and dispersion using electrostatic forces.

Student(s) **Gianna Guzzo** **Grade 11** **Town** Suffield
Andrea Lacunza **Grade 11** **Town** Avon

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

Windsor Academy of Aerospace and Engineering Michelle Bellinger
 6530 PST 1 Optimizing Archimedian screw geometry to increase the energy conversion efficiency of a micro hydropower plant.

Student(s) **Devesh Kakkar** **Grade 11** **Town** South Windsor
Johnathan Bell **Grade 11** **Town** Glastonbury

* Connecticut Association of Physics Teachers --- \$100 Senior project
 * Environmental / Energy Award- New Haven Public School Award --- \$100 Award for top environmental or alternative energy project from a New Haven public school
 * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Engineering: Mechanical

Windsor Academy of Aerospace and Engineering Dr. Bellinger
 6092 PS 1 The Effect of Piezoelectric Cantilever Beam Design and Spatial Positioning in a Network on the Efficiency and Maximum Energy Output of a Vibro Wind Unit.

Student(s) **Jean Pasato** **Grade 12** **Town** Middletown

* Constellation, an Exelon Company --- 1st: \$150.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy
 * Robotics And Beyond --- HS- For Excellence in Physics- \$200 for Robotics And Beyond STEM Design Camp or Academy

Windsor Academy of Aerospace and Engineering Dr. Bellinger
 6511 PST 1 The Effect of Hydrofoil Design Parameters on Dynamic Behavior and Energy Extraction Efficiency of an Oscillating Hydrofoil Power Generation Unit

Student(s) **Christopher Rinaldi** **Grade 12** **Town** Enfield
Abhiram Tirumala **Grade 12** **Town** South Windsor

* Mu Alpha Theta --- Certificate, \$25 gift card given by CSEF

Windsor Academy of Aerospace and Engineering Michelle Bellinger
 6521 PST 1 Development of In-situ Fabrication Methods of Martian Construction Material

Student(s) **Cristian Rodriguez** **Grade 12** **Town** East Hartford
Srikar Godilla **Grade 12** **Town** Newington

* Arthur Mensing Award --- \$1000 cash award for Excellence in the Physical Sciences

Windsor Academy of Aerospace and Engineering Dr. Bellinger
 6058 PS 1 The Effect of Design Parameters and Operating Conditions on Optimal Energy Conversion and Force Generation in a Magneto-hydrodynamic Drive

Student(s) **Vishakh Talanki** **Grade 12** **Town** South Windsor

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

Conn. Science & Engineering Fair

Special Award Winners

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

Windsor Academy of Aerospace and Engineering - MS Dr. Bellinger

4028 PT 1 Do Contaminants Effect the Strength of Concrete at Construction Sites?

Student(s) Justin Ho **Grade 8** **Town** Suffield
 Nicholas Sattan **Grade 8** **Town** Suffield

- * ASM Materials Education Foundation --- Certificate & \$25 gift card given by CSEF
- * Garg Consulting Services Award for Excellence in Construction Engineering --- \$250 cash and plaque

Windsor St. Gabriel School Margaret Rosa

5036 P7 2 Don't Keep Me in Suspense

Student(s) Ben Owen **Grade 7** **Town** Windsor

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

Windsor The Loomis Chaffee School Koby Osei-Mensah

6052 PS 2 A Novel Activation Function for a Convolutional Neural Network Implemented Without Machine Learning Libraries

Student(s) Aresh Pourkavoos **Grade 10** **Town** Avon

- * Intel Excellence in Computer Science Award --- \$200 & certificate
- * Mu Alpha Theta --- Certificate, \$25 gift card given by CSEF
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Computer Science
- * 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

Woodbridge Amity Regional High School Catherine Piscitelli

6019 PS 3 Split Streams as a Novel Determinant of Extreme Severe Thunderstorm Potential in the Northeastern US

Student(s) Jacob Feuerstein **Grade 12** **Town** Woodbridge

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

Woodbridge Amity Regional High School Catherine Piscitelli

6029 PS 2 Analyzing Particulate Matter Atmospheric Pollution Trends in Connecticut

Student(s) Ella Marin **Grade 11** **Town** Woodbridge

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

Woodbridge Amity Regional High School Catherine Piscitelli

6064 PS 1 Designing and Testing an Aid for the Visually Impaired

Student(s) Shyam Viswanathan **Grade 10** **Town** Woodbridge

- * Zepke Awards --- \$125 - For the Best Use of Electronic Circuitry- Senior High
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Engineering: Electrical

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 Catherine Piscitelli

6012	PS	2	Developing Age Detection Software Based on Touch Behavior				
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Student(s) Kate Yuan

Grade 12 **Town** Woodbridge

* Robert Francoeur Memorial Award --- Creative or innovative project in electrical engineering or computer science by female students - \$200