



Connecticut Science & Engineering Fair

Quinnipiac University

March 8 - 20, 2021

Winning Projects

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, or 3rd honors
(Projects with 1st honors are Finalists in Life or Physical Science)

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Avon	Avon High School	John Salerni	3070	LS	3	Proteomics for precision medicine in diabetes		
						Student(s) Mark Wang	Grade 11	Town Avon
Avon	Talcott Mountain Academy	Bridgette Zacharczenko	2503	L8	2	Circadian Rhythms with Manduca Sexta Caterpillars		
						Student(s) Soleil Asano	Grade 8	Town Torrington
* Alexion Biotechnology Awards --- 2nd Place- Biotechnology 8th grade- \$200 & plaque								
Avon	Talcott Mountain Academy	Jennifer Travers	2002	L7	2	How Different Sounds Affect an Individual's Concentration		
						Student(s) Phydena Liu	Grade 7	Town Avon, CT
Avon	Talcott Mountain Academy	Brigette Zacharczenko	2509	L8	2	The Use of "Essential Oils" as Punishing Stimuli on Dubia Roaches		
						Student(s) Oliver Morrison	Grade 8	Town Farmington
* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion								
Avon	Talcott Mountain Academy	Lydia Gibb	2015	L7	2	Bedrock vs. Trees: Is There A Connection?		
						Student(s) Aarna Panigrahi	Grade 7	Town West Hartford
* Geology/Historic Project of Merit Award --- \$100 or 2 x \$50 - Earth Science - Field work with Geologic or historic value								
Avon	Talcott Mountain Academy	Ms. Lydia Gibb	5506	P8	2	Ventilation for COVID-19: What is Effective?		
						Student(s) Ariana Pourkavoos	Grade 8	Town Avon
* American Society of Safety Professionals, CT Valley Chapter --- \$100 grade 7-8 project								

Conn. Science & Engineering Fair

Winning Projects

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

Avon Talcott Mountain Academy John Pellino

5014 P7 1 Tennis Ball Disinfecter

Student(s) Sia Reddy **Grade 7** **Town** Avon

- * Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences 7th Grade Ind. - \$200 & plaque
- * Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Quinnipiac University Scholarships --- \$20,000, 4 year scholarship \$5000 per year) to Quinnipiac University for MS Student & \$250 cash
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- * Samantha Freeman Award for Excellence in Sports Science or Engineering --- For Excellence in Sports Science or Engineering by a Middle School student, \$100 cash
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

Avon Talcott Mountain Academy John Pellino

5015 P7 2 Secure Stove

Student(s) Elias Starr **Grade 8** **Town** AVON

- * Collins Aerospace Engineering Awards --- 1st Place- Engineering Middle School- \$400 & plaque
- * American Society of Safety Professionals, CT Valley Chapter --- \$100 grade 7-8 project
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * John S. Kendall Memorial Awards --- \$300 John S. Kendall Award for Excellence In Mechanical Engineering - Middle School
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

Avon Talcott Mountain Academy Dr. Brigette Zacharczenko

2013 L7 2 How do x-ray wavelengths affect the growth of seeds?

Student(s) Sam Wu **Grade 7** **Town** Avon

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

Bethel Bethel High School Raymond Turek

3019 LS 3 The Effect of Nondiscrimination Legislation on LGBT Students

Student(s) Sophie Morris **Grade 12** **Town** Bethel

- * Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF

Bethel Bethel High school Mr. Raymond Turek

6080 PS 3 Turf Vs. Grass Fields

Student(s) Justyn Peralta **Grade 12** **Town** Bethel

Bozrah Fields Memorial School Evelyn Brown

2504 L8 1 Does personality type correlate to types of emotional responses to the Covid-19 pandemic?

Student(s) Kali Kapilotis **Grade 8** **Town** Bozrah

- * PepsiCo / Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 8th grade- \$100 & plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * American Psychological Association --- Certificate, \$25 gift card given by CSEF

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

Bozrah Fields Memorial School Evelyn Brown

2004 L7 2 How efficient is aquaponics compared to traditional soil-based farming?

Student(s) Sarah Martin **Grade 7** **Town** Bozrah

- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- Middle School- \$200 / plaque
- * Future Sustainability Awards --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- * American Meteorological Society --- Certificate & \$25 gift card given by CSEF
- * U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF
- * National Center for Inquiry Learning --- Danielle & Maggie Award for Imagination - MS \$100

Bozrah Fields Memorial School Mrs. Brown

5007 P7 1 Electrical Testing Board For Energy Consumption

Student(s) Andrew Pagnotta **Grade 7** **Town** Bozrah

- * Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences 7th Grade Ind. - \$100 & plaque
- * Alternative/Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and plaque
- * Future Sustainability Awards --- Middle School Finalist - Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * U.S. Air Force --- Certificate & \$25 gift card from CSEF
- * 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.
- * MIT Club of Hartford K-12 Initiative
- C/O Leon Kaatz; 111 Oak Street; Hartford, CT 06106 --- For excellence in science & technology of energy related research, middle school, \$100 cash award
- * Susan Lessoff Award for Excellence In Chemistry --- Susan Lessoff Excellence In Chemistry Award -\$100 Cash and Plaque- Middle School
- * Frank J. Link Family Award for Energy Related Research --- Frank J. Link Award for Energy Related Research - \$50

Bridgeport Bridgeport Regional Aquaculture Center Mr. Kirk Shadle

3027 LS 2 Investigating the Efficacy of Cannabidiol on the Elongation Time of the Coagulation Cascade to Mitigate Intravascular Clots.

Student(s) Maria Elena Dos Santos **Grade 12** **Town** Bridgeport

- * CASE • The Jackson Laboratory Urban School Challenge Awards --- Senior High Finalist - Medallion

Bridgeport Bridgeport Regional Aquaculture Center Mr. Kirk Shadle

3024 LS 1 Developing an Adhesive Constructed from a Maize starch-based matrix Mixed with Chondrus crispus Carrageenan and Determining the Biodegradability of the Adhesive

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

- * PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- 4th Place High School - Plaque, Medallion
- * U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF

Bridgeport Bridgeport Regional Aquaculture Center Mr. Kirk Shadle

6078 PS 1 Development of a Novel Classification Model to Determine Vegetation Habitability of Exoplanet Atmospheres Via Random Forest Machine Learning Algorithms.

Student(s) Joseph Gottlieb **Grade 12** **Town** Stratford

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- 5th Place High School - Plaque, Medallion
- * Computer Science Awards --- Senior High Finalist - Medallion
- * Raytheon Corporation Awards --- \$500, Plaque

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

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3089	LS	2	Determining the Efficacy of Zingiber Officinale to Promote the Degradation of Bioplastics Through Amylase Hydrolysis
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Student(s) Sienna Matregrano **Grade** 12 **Town** Fairfield

- * CASE • The Jackson Laboratory Urban School Challenge Awards --- 3rd Place High School - \$ 300 and Plaque, Medallion
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * GENIUS Olympiad --- GENIUS Olympiad Competition for HS Environmental, Energy, Ecology, or Biodiversity Project

Bridgeport Bridgeport Regional Aquaculture Center Mr. Kirk Shadle

3052	LS	1	The Social Interactions and Learning Abilities Between Dogfish, Observed Using Two Different Methods of Target Training.
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Student(s) Clayton Nyiri **Grade** 12 **Town** Fairfield

- * PepsiCo / Pfizer Life Sciences Awards --- 3rd Place- Life Sciences Senior High- \$200 & Plaque
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- 1st Place High School - \$500 and Plaque, Medallion
- * H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering --- \$500 to 1st HS Urban School Challenge Science Department for Equipment/Supplies
- * American Psychological Association --- Certificate, \$25 gift card given by CSEF

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3067	LS	2	Determining the Proliferation of Cellular Oxidative Stress through Blue Light Induced Reactive Oxygen Species Formation
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Student(s) Gabriella Silva **Grade** 12 **Town** Bridgeport

- * Kathleen & David Smith Awards --- Kathleen & David Smith Award for Laser Application - \$100

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

6019	PS	1	Yielding High Value Secondary Products from fossil fuel waste utilizing electrolysis
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Student(s) Dylan Steer **Grade** 12 **Town** Stratford

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

6056	PS	2	Anthropogenic Radiofrequency-Electromagnetic Field Impacts To Nervous System Stability Through Neuron Spiking Characterization And Identifying High EMF Zones In The Environment
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Student(s) Aki Tsutsumi **Grade** 12 **Town** 70 Maureen St

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

6016	PS	2	Harnessing Bio-Kinetic Energy Through A Wearable Non-Invasive Generator
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Student(s) Alexander Vassallo **Grade** 12 **Town** Fairfield

- * CASE • The Jackson Laboratory Urban School Challenge Awards --- Senior High Finalist - Medallion
- * Alternative/Renewable Energy Awards --- 2nd Place High School - \$300 Cash and Plaque
- * Wisner Memorial Award --- \$1,000 cash + Silver Bowl (\$2,000 cash if a team) High School

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

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
 6088 PS 2 A Novel Technique to Mitigate Harmful Algal Blooms by Utilizing Electromagnetic Pulses.
Student(s) Savoy Volcy **Grade 12** **Town** Stratford

* CASE • The Jackson Laboratory Urban School Challenge Awards --- Senior High Finalist - Medallion

Bridgeport Central High School Mr. Dufe
 3049 LS 3 Can orange peels help plants to grow?
Student(s) Aliyah Smith **Grade 9** **Town** Bridgeport

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

Bridgeport Fairchild Wheeler Aerospace Mr. Bergquist
 6519 PST 3 The Efficiency of Newer and Older Aircraft Designs.
Student(s) Domenic Cammarota **Grade 10** **Town** Fairfield
Max Markowsky **Grade 10** **Town** Newtown

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

Bridgeport Fairchild Wheeler Aerospace Douglas Strickland
 6502 PST 3 The Drinker Dehumidifier
Student(s) Rohan Mistry **Grade 12** **Town** Milford
Andrew Dunning **Grade 12** **Town** Stratford

Bridgeport Fairchild Wheeler Biotechnology Cynthia Crudale
 3080 LS 3 A Natural Remedy to Decrease Asthma
Student(s) Shahmima Akther **Grade 12** **Town** Bridgeport

Bridgeport Fairchild Wheeler Biotechnology Sidra Rafaqat
 3502 LST 2 Green Tea: The Bacteria Killer?
Student(s) Sophie Uanino **Grade 9** **Town** Shelton
Angeline Tran **Grade 9** **Town** Shelton

Bridgeport Interdistrict Discovery Magnet Helena Coatsworth
 5508 P8 1 Crystal Current
Student(s) Arden Mauborgne **Grade 8** **Town** Easton

* Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences 8th Grade Ind, - \$100 & plaque
 * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
 * Alternative/Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and plaque
 * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

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

Bridgeport Multicultural Magnet School Corina Starn

2517 L8 1 Microplastic Concentration in Four Harbor Locations in Fairfield County, CT

Student(s) Sofia Atehortua **Grade 8** **Town** Bridgeport

- * PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- 5th Place Middle School - plaque, Medallion
- * Environmental Sciences Awards with CACIWC --- 3rd Place MS- \$100, plaque
- * National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF
- * Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt & cap, First Place Junior

Bridgeport Multicultural Magnet School Corina Starn

2008 L7 1 Will it Survive?

Student(s) Stephanie Cuaya **Grade 7** **Town** Bridgeport

- * PepsiCo / Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 7th grade- \$100 & plaque

Bridgeport Park City Prep Charter School Vasiliki Boudreau

2001 L7 2 Does water temperature affect lentil seed germination.

Student(s) Dylann Delgado **Grade 7** **Town** Bridgeport

Bridgeport Park City Prep Charter School Jonathan Jaekle

2501 L8 3 The Circulatory System

Student(s) Christopher Huerta-Arriaga **Grade 8** **Town** Bridgeport

Bridgeport Park City Prep Charter School Ms. Boudreau

5016 P7 3 The Algorithms of the Rubik's Cube

Student(s) Marcus Rosario **Grade 7** **Town** Bridgeport

Bridgeport Park City Prep Charter School Mrs. Boudreau

2014 L7 3 Worms, Not Just For Composting Anymore

Student(s) Stacy Sanchez-luna **Grade 7** **Town** Bridgeport

- * CASE • The Jackson Laboratory Urban School Challenge Awards --- Middle School Finalist - Medallion

Bridgeport Barnum School Yeritza Vega

2012 L7 3 Does the 5 Second Rule really work?

Student(s) Kayce Ochoa **Grade 7** **Town** Bridgeport

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Canton	Canton High School	Marsha Jorgensen	3044	LS	1	Allelopathic Effects of Invasive Species Garlic Mustard (<i>Alliaria petiolata</i>) on Germination of Black Eyed Susan (<i>Rudbeckia hirta</i>)		
Student(s) Lauren Marze					Grade 9	Town Canton		
<ul style="list-style-type: none"> * PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion * U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF * Banning Family Life Science Award --- For excellence in invasive species research, \$100 cash 								
Cheshire	Cheshire Academy	Mr. Ferraro	3033	LS	3	Tumor Reversion in Claudin-low Triple Negative Breast Cancer		
Student(s) Kavin Kathir					Grade 11	Town Cheshire		
Cheshire	Cheshire Academy	Anthony Ferraro	6047	PS	3	Artificial Intelligence Medical Question-answering Robot		
Student(s) Yiya Qi					Grade 11	Town China		
* Computer Science Awards --- Senior High Finalist - Medallion								
Cheshire	Cheshire Academy	Mariam Aboian	3101	LS	3	Role of PET/ MRI in evaluating brain tumors and tumor recurrence		
Student(s) Julia Shatalov					Grade 12	Town Cheshire		
Cheshire	Cheshire High School	Julie Barker	6027	PS	3	Project Regrow: Cutting-Edge Technology to Fight Deforestation		
Student(s) Siddhant Bhardwaj					Grade 10	Town Cheshire		
* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion								
Cheshire	Cheshire High School	Julie Barker	6064	PS	3	VISTA: a device that measures temperature and humidity levels, by using a complex set of algorithms to calculate the temperature variance and heat index of its environment.		
Student(s) Sagarika Srinivasan					Grade 10	Town Cheshire		
<ul style="list-style-type: none"> * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2 								
Cheshire	Cheshire High School	Julie Barker	6095	PS	3	Determining Whether an Inorganic Reaction can be Determined to be Redox or Non-Redox Based on the Number of Unique Elements and Compounds in the Reaction		
Student(s) Vincent Zhu					Grade 11	Town Cheshire		

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Cheshire	Dodd Middle School	Clare Gonzalez	5005	P7	2	Separation of Food Dyes Via Column Chromatography		
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Student(s) Adwitha Gadhachanda **Grade 7** **Town** Cheshire

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- * Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Phys Science

Cheshire	Dodd Middle School	Clare Gonzalez	5002	P7	1	A Covid-19 Social Distancing Device Using a PIR Motion Sensor and a US-100 Ultrasonic Distance Sensor		
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Student(s) Suchita Srinivasan **Grade 7** **Town** Cheshire, CT

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences 7th Grade Ind. - \$100 & plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- Middle Schools- \$100 / plaque
- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * Computer Science Awards --- 1st Place Middle School - \$300, plaque
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- * American Society of Safety Professionals, CT Valley Chapter --- \$100 grade 7-8 project
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * Robert Francoeur Memorial Award --- Creative or innovative project in engineering or computer science by female students - \$200
- * Zepke Awards --- \$100 - For the Best Use of Electronic Circuitry- Middle School
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

Cheshire	St. Bridget School	Mrs. Michelle Carroll	2508	L8	1	No To Nanosilver: A Natural Approach to Nanosilver Filtration		
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Student(s) Nilan Kathir **Grade 8** **Town** Cheshire

- * PepsiCo / Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 8th grade- \$200 & plaque
- * American Meteorological Society --- Certificate & \$25 gift card given by CSEF
- * J.A. Augustine Award --- \$100 for excellence in biology
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

Coventry	Captain Nathan Hale Middle School	Mrs. Chelsea Long	5012	P7	3	Metal Hardening: Heating, Hammering and Holding Atoms Together		
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Student(s) Alexander Campbell **Grade 7** **Town** Coventry

- * Alexion Biotechnology Awards --- 5th Place- Biotechnology 7th grade- plaque

Danbury	Saint Joseph School	Mrs. Reilly	2514	L8	2	Light 'Em Up		
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Student(s) Maris Chirayil **Grade 8** **Town** Danbury

- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology 8th grade- plaque

Danbury	Saint Joseph School	Jennifer Reilly	2513	L8	1	Effectiveness of Whitening Toothpastes		
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Student(s) Charles Doran **Grade 8** **Town** Danbury

- * PepsiCo / Pfizer Life Sciences Awards --- 4th Place- Life Sciences 8th grade- plaque

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Danbury	Saint Joseph School	Mrs. Jennifer Reilly	5013	P7	3	Jumping Distance		
		Student(s) Daniel Ferrucci					Grade 7	Town Danbury
Danbury	Saint Joseph School	Mrs. Reilly	2520	L8	2	Heart Rate Recovery Time		
		Student(s) Tatiana Frouge					Grade 8	Town Danbury
		* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion						
Danbury	Saint Joseph School	Jennifer Reilly	5004	P7	2	Purifying Water with Activated Charcoal		
		Student(s) Adeline Gibowicz					Grade 7	Town Danbury
		* Future Sustainability Awards --- Middle School Finalist - Medallion						
Danbury	Saint Joseph School	Jennifer Reilly	2502	L8	3	Oil and Feathers		
		Student(s) Cynthia Silverman					Grade 8	Town Danbury
Danbury	Saint Joseph School	Jennifer Reilly	2010	L7	3	Extracting Onion DNA		
		Student(s) Stefan Weber					Grade 7	Town Danbury, CT
Danbury	Saint Joseph School	Mrs. Reilly	4007	PT	2	What Is The Effect of Water Depth On Tsunamis?		
		Student(s) Benjamin Werner					Grade 7	Town Danbury
		Matthew Werner					Grade 7	Town Danbury
Danbury	St. Gregory the Great School	Mrs. Fahey	5003	P7	3	Potato vs. lemon		
		Student(s) Briella Dunkle					Grade 7	Town Danbury
Danbury	St. Gregory the Great School	Mrs. Fahey	5517	P8	2	Convection Heat Transfer & Mixing Methods		
		Student(s) Brendan Kelly					Grade 8	Town Danbury

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

Danbury Westside Middle School Academy Jonathan Neuhausel

2011	L7	1	The Effect of UV Light on Bacteria From a Horse Blt
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Student(s) Sophia Blumenreich **Grade 7** **Town** Danbury

- * PepsiCo / Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 7th grade- \$100 & plaque
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- * NYUC Pony Club Equine Award --- \$100 Cash Award or excellence in equine studies
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

Danbury Westside Middle School Academy Jonathan Neuhausel

5009	P7	1	Using Snell's Law to Calculate Index of Refraction of Solutions
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Student(s) Sydney Borst **Grade 7** **Town** Danbury

- * Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences 7th Grade Ind. - plaque
- * Mathematics Awards - with ATOMIC --- 1st Place Middle School- \$300 and Plaque
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- 2nd Place Middle School - \$200 and plaque, Medallion
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- * Connecticut College-Physics, Astronomy, & Geophysics Dept. --- Junior Award: Certificate, & teeshirt & \$25 Amazon Card from CSEF
- * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp
- * Demos R Us Award --- \$150 Cash Award-- Clear Execution of Research- 7th Grade
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

Danbury Westside Middle School Academy Jonathan Neuhausel

2006	L7	2	The Effects of Soil Type on Allolobophora caliginosa's Enrichment of NPK, pH, and Moisture Value in Soil.
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Student(s) Krrish Brahmkshatriya **Grade 7** **Town** Danbury

Danbury Westside Middle School Academy Jon Neuhausel

5512	P8	2	The Effect of River Medium on River Erosion
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Student(s) Benjamin Chaleski **Grade 8** **Town** Danbury

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

Danbury Westside Middle School Academy Jonathan Neuhausel

2005	L7	2	The effects of a clinostat on Garden Cress
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Student(s) Zachariah Colon **Grade 7** **Town** Danbury

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Danbury Westside Middle School Academy Jonathan Neuhausel

5511	P8	1	The Effects of Concentrations of Acetone on the Tensile Strength of Bioplastics					
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Student(s) Eric Guo **Grade 8** **Town** Danbury

- * Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences 8th Grade Ind. - plaque
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- Middle School Finalist - Medallion
- * Collins Aerospace Engineering Awards --- 3rd Place- Engineering MS \$100 & plaque
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology 8th grade- plaque
- * ASM Materials Education Foundation --- Certificate & \$25 gift card given by CSEF
- * U.S. Metric Association --- Certificate & \$25 gift card given by CSEF

Danbury Westside Middle School Academy Jon Neuhausel

2007	L7	1	The Effect of Bee Box Volume Size on Temperature and Humidity of a Wintering Bee Hive.					
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Student(s) Luca LaRosa **Grade 7** **Town** Danbury

- * PepsiCo / Pfizer Life Sciences Awards --- 1st Place- Life Sciences 7th grade- \$200 & plaque
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- 3rd Place Middle School - \$100 and plaque, Medallion
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology 7th grade- plaque
- * Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF
- * National Center for Inquiry Learning --- Danielle & Maggie Award for Imagination - MS \$100
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

Danbury Westside Middle School Academy Jon Neuhausel

5006	P7	2	Thermoelastic energy generation using variable temperature gradients					
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Student(s) Kiran Suri **Grade 7** **Town** Danbury

- * CASE • The Jackson Laboratory Urban School Challenge Awards --- Middle School Finalist - Medallion
- * Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and plaque
- * U.S. Air Force --- Certificate & \$25 gift card from CSEF
- * Constellation, an Exelon Company --- 2nd: \$50.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Wisner Chairman's Award --- \$500 cash & plaque MS

Danbury Westside Middle School Academy Jonathan Neuhausel

4002	PT	1	The Benefits of Debris Deflectors on Preventing Debris Buildup in Culverts					
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Student(s) David Thomas **Grade 8** **Town** Danbury

Cody Zhu **Grade 8** **Town** Danbury

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CSF Medallion
- * Future Sustainability Awards --- Middle School Finalist - Medallion
- * Collins Aerospace Engineering Awards --- 2nd Place- Engineering MS- \$200 & plaque
- * Lemelson Early Inventor Award --- Certificate & \$100 cash award from Lemelson Foundation

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Danbury	Westside Middle School Academy	Walter Mayhew	5504	P8	1	The Effect of an Insulator with Styrofoam on the Temperature Difference Between Two Pieces of Cardboard		
			Student(s)		Christopher Tomas Borges	Grade 8	Town	Danbury
<ul style="list-style-type: none"> * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion * CASE • The Jackson Laboratory Urban School Challenge Awards --- 4th Place Middle School - plaque, Medallion * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion 								
Danbury	Danbury High School	Karen Lamb	6079	PS	3	Utilizing Machine learning to Analyze Twitter posts and Predict the Election Outcome		
			Student(s)		Shriya Jonnalagadda	Grade 9	Town	Danbury
<ul style="list-style-type: none"> * Computer Science Awards --- Senior High Finalist - Medallion * Susan and Stanley Lessoff Memorial Award --- Susan and Stanley Lessoff Memorial Award - \$250 Cash and Plaque HS 								
Darien	Darien High School	Mr. Lewis	3041	LS	2	Optogenetic Stimulation of Neurons in the Brain to Treat Parkinson's Disease		
			Student(s)		Abby Bouton	Grade 11	Town	Darien
Darien	Darien High School	Guy Pratt	3022	LS	2	Use of Accelerometers to Determine Gait Irregularity		
			Student(s)		Victor Calmon Coelho	Grade 12	Town	Darien
Darien	Darien High School	Guy Pratt	3076	LS	3	The Landscape of Fear of Squirrels in Urban and Rural Environments		
			Student(s)		Nicholas Levinson	Grade 12	Town	Darien
Darien	Darien High School	Mr. Pratt	3064	LS	2	The Impact of Location, Nursery vs Reef, on Survival and Growth Rates of Coral Species Orbicella Annularis and Acropora Palmata, in St. Croix, USVI.		
			Student(s)		Anna Seymour	Grade 12	Town	Darien
Darien	Darien High School	Guy Pratt	3045	LS	2	Exercise Therapy to Treat Anxiety: The Effect of Running on Anxiety Levels		
			Student(s)		Abby St Jean	Grade 12	Town	Darien
Darien	Darien High School	Ting Wang	3073	LS	1	Identification of Epigenetic Determinants of Zebrafish Pigment Cell Fate.		
			Student(s)		Sophie Xu	Grade 10	Town	Darien
<ul style="list-style-type: none"> * PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion 								

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Darien	Darien High School	Christine Leventhal	6071	PS	3	Robotic Pancreatoduodenectomy (PD) vs. Open PD: A Meta-analysis-driven Algorithm to Enhance Surgical Decision Making		
			Student(s)		Ethan Zhang	Grade	12	Town Darien
<ul style="list-style-type: none"> * Mathematics Awards - with ATOMIC --- 3rd Place High School - \$200 and Plaque * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion 								
East Lyme	East Lyme High School	Frederic Clark	6520	PST	3	Biomimicry of Whale Baleen to Remove Microplastics from Water		
			Student(s)		Jenny Guo	Grade	11	Town East Lyme
					Yurina Shirai	Grade	11	Town Niantic
East Lyme	East Lyme High School	Frederic Clark	6010	PS	2	Two Speed Mechanical BMX Race Gearbox		
			Student(s)		Jacob Hatt	Grade	10	Town Salem
<ul style="list-style-type: none"> * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion * Raytheon Corporation Awards --- \$500, Plaque * Samantha Freeman Award for Excellence in Sports Science or Engineering --- For Excellence in Sports Science or Engineering by a High School student, \$150 cash 								
East Lyme	East Lyme High School	Frederic Clark	6065	PS	3	Examining the Relationship Between Labor Cost and Firm Strategy Through Mixed Methods Content Analysis on Panel Data and SEC Filings		
			Student(s)		Aditya Kabra	Grade	11	Town Niantic
* Mu Alpha Theta --- Certificate, \$25 gift card given by CSEF								
East Lyme	East Lyme High School	Frederic Clark	3079	LS	2	Investigating Interplay Between Amyloid- β and Tau and its Contribution to Neuroinflammation in Alzheimer's Disease Progression		
			Student(s)		Avni Kabra	Grade	9	Town Niantic
East Lyme	East Lyme High School	Frederic Clark	6505	PST	3	Stock Simulator		
			Student(s)		Aman Patel	Grade	11	Town Niantic
					Mason Gallo	Grade	11	Town East Lyme
					Evan Lombardo	Grade	11	Town Salem

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

East Lyme East Lyme High School Frederic Clark

3515 LST 2 The Striking Strawkin Duo

Student(s) **Sam Yang** **Grade** 10 **Town** East Lyme
Nikhita Bolineni **Grade** 10 **Town** East Lyme
Riddhi Bansal **Grade** 10 **Town** East Lyme

Ellington Ellington Middle School Victoria Schilling

2512 L8 2 Role Of Macronutrients (NPK) In Plant Growth and Development

Student(s) **Saisuhruth Choppakatia** **Grade** 8 **Town** Ellington

* Alexion Biotechnology Awards --- 3rd Place- Biotechnology 8th grade- \$100 & plaque

Enfield Chiaravalle Academy Timothy Coleman

4001 PT 1 The Filtration of Soot and Carbon Molecules From Smoke

Student(s) **Lainey Czerwiec** **Grade** 7 **Town** Feeding Hills
Bridget Kelly **Grade** 7 **Town** Enfield

* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion
 * Future Sustainability Awards --- Middle School Finalist - Medallion

Enfield Chiaravalle Academy Timothy Coleman

1008 LT 1 A Comparison of Three Types of Honey on CO2 Emissions from Yeast Fermentation

Student(s) **Alexander Gumkowski** **Grade** 8 **Town** North Haven
Tyler Salisbury **Grade** 8 **Town** South Windsor

* PepsiCo / Pfizer Life Sciences Awards --- 3rd Place- Life Sciences MS Team- plaque

Enfield Chiaravalle Academy Tim Coleman

4003 PT 1 Toilet Power: Capturing Wasted Energy From Home Fixtures

Student(s) **Lincoln Marshaus** **Grade** 8 **Town** Suffield
Chloe Walker **Grade** 8 **Town** Somers
Francesca Lamattina **Grade** 8 **Town** Somers

* Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences MS Team- \$100 each & plaque
 * Stanley Black & Decker Applied Technology Awards --- 2nd Place Middle School - \$200 and Plaque, Medallion
 * Future Sustainability Awards --- Middle School Finalist - Medallion
 * American Meteorological Society --- Certificate & \$25 gift card given by CSEF
 * Constellation, an Exelon Company --- 1st: \$100.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
 * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

Enfield Chiaravalle Academy Timothy Coleman

1001 LT 3 do bugs survive in the winter

Student(s) **Sage Pierce** **Grade** 7 **Town** Enfield
Catherine Wilcox **Grade** 7 **Town** Enfield

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Enfield	Chiaravalle Academy	Mr. Timothy Coleman	5513	P8	1	Can Diodes Be Used to Reduce the Negative Impacts of Road Salt on Streams?		
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Student(s)	Abigail Quinby	Grade 8	Town	Windsor
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- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * Demos R Us Award --- \$200 Cash Award- Clear Execution of Research- 8th Grade
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

Enfield	Chiaravalle Academy	Mr. Coleman	1004	LT	1	Agricultural Plants reaction to Climate Change		
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Student(s)	Maya Serrano	Grade 8	Town	Somers
	Joella Asapokhai	Grade 8	Town	South Windsor
	Alexandria Croal	Grade 8	Town	Enfield

- * PepsiCo / Pfizer Life Sciences Awards --- 2nd Place- Life Sciences MS Team- \$100 each
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$300 & plaque
- * Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

Enfield	Chiaravalle Academy	Timothy Coleman	4004	PT	2	How the science of thermoelectricity can improve warmth in colder climates.		
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Student(s)	Rhys Wilson	Grade 7	Town	Somers
	Jacek Cieslak	Grade 7	Town	Monson
	Oliver Kolb	Grade 7	Town	East Longmeadow

- * Stanley Black & Decker Applied Technology Awards --- 3rd Place Middle School - \$100 and Plaque, Medallion

Fairfield	Fairfield College Preparatory School	Anthony Dotolo	3038	LS	3	Oil consuming bacteria vs algae. Which is better at bioremediating oil spills?		
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Student(s)	Antonios Boudreau	Grade 12	Town	Ansonia
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Fairfield	Fairfield College Preparatory School	Anthony Dotolo	6042	PS	2	Natural Lubricant Substitute for Railroad Applications.		
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Student(s)	David Boudreau	Grade 11	Town	Ansonia
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- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR
- * Vanderbilt Chemicals, LLC --- Vanderbilt Chemicals Award for Excellence in Tribology and Sustainable Lubrication
- * University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificat

Fishers Island	Fishers Island School	Carol Giles	3046	LS	3	Ocean Acidification: How it effects population growth in the phytoplankton species Nannochloropsis oculata		
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Student(s)	Arabella Hatfield	Grade 12	Town	Groton, CT
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- * Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Fishers Island	Fishers Island School	Carol Giles	3009	LS	1	Exploring Earthworm Ecotypes: Carbon Source or Sink?		
					Student(s) Lillian Kane	Grade 12	Town Groton	
<ul style="list-style-type: none"> * PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion * Future Sustainability Awards --- High School Finalist - Medallion * Alexion Biotechnology Awards --- 3rd Place- Biotechnology Senior High- \$300 & plaque * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF * University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Life Sciences - Co-Op \$100 Gift Certificate 								
Glastonbury	Glastonbury High School	Diane Pintavalle	3056	LS	2	Synthesis and Evaluation of Recombinant Therapeutic Antibodies for Metastatic Breast Cancer		
					Student(s) Nathan Azimov	Grade 11	Town Glastonbury	
Glastonbury	Glastonbury High School	Diane Pintavalle	3061	LS	1	The Role of Alternative Splicing in Metastatic Osteosarcoma		
					Student(s) Sonia Ghoshal	Grade 11	Town Glastonbury	
<ul style="list-style-type: none"> * PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion 								
Glastonbury	Glastonbury High School	Ms.Pintavalle	6036	PS	3	Point Cloud Generation from Multifocal Drone Footage		
					Student(s) Sandesh Ramesh	Grade 11	Town glastonbury	
Glastonbury	Glastonbury High School	Diane Pintavalle	3016	LS	2	Chromosomal Instability of RB1 in Osteosarcoma		
					Student(s) Palash Vora	Grade 11	Town Glastonbury	
Greenwich	Brunswick School	Dana Montanez	6044	PS	2	Towards Clean Energy via Radioactivity: An Investigation of the Dissipation of Electrons in an Ultra High Vacuum Environment		
					Student(s) Luke Apostolides	Grade 11	Town Greenwich	
<ul style="list-style-type: none"> * Mathematics Awards - with ATOMIC --- High School Finalist - Medallion * Future Sustainability Awards --- 3rd Place High School - \$200 Cash and Plaque * Raytheon Corporation Awards --- \$500, Plaque * U.S. Metric Association --- Certificate & \$25 gift card given by CSEF * Westinghouse Electric Company/New England Chapter of North American Young Generation in Nuclear --- 1st place, Excellence in Energy Research, \$100 cash award * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics 								

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

Greenwich Brunswick School Dana Montanez
 6504 PST 2 Creation of a Malleable Hydrogel Bandage for Long Term Wound Treatment
Student(s) John Brown **Grade 11** **Town** Greenwich
 Caleb Boateng **Grade 11** **Town** Bronx

Greenwich Brunswick School Dana Montanez
 6516 PST 1 An Investigation of Current-Powered, Aquatic Turbines as Alternative Energy Source
Student(s) Teddy Danforth **Grade 10** **Town** Greenwich
 Trip Williams **Grade 10** **Town** Greenwich

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion
- * Future Sustainability Awards --- High School Finalist - Medallion
- * Constellation, an Exelon Company --- 2nd: \$100.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy

Greenwich Brunswick School Dana Montanez
 3506 LST 2 Density of Microplastics: An investigation to determine concentration in the dorsal tissue of Morone saxatilis
Student(s) Tomas Delgado **Grade 10** **Town** Riverside
 Jackson Wolfram **Grade 10** **Town** Riverside

- * Environmental Sciences Awards with CACIWC --- 3rd Place HS- \$100, Plaque

Greenwich Brunswick School Dana Montanez
 3040 LS 3 An economically feasible application of germicidal irradiation to Personal Protective Equipment
Student(s) Jackson Fels **Grade 10** **Town** Riverside

Greenwich Brunswick School Dana Montanez
 6512 PST 1 Harnessing and Repurposing Processing Heat Gradient Produced by a Computer to Reduce the Battery Lost to a Cooling Fan
Student(s) Gregory Kapp **Grade 11** **Town** Greenwich
 Michael Montgomery **Grade 11** **Town** Greenwich

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * John S. Kendall Memorial Awards --- \$500 John S. Kendall Award for Excellence In Mechanical Engineering - High School

Greenwich Brunswick School Dana Montanez
 3104 LS 3 Designing a Blood Alcohol Tracker through Transdermal Alcohol Content to Increase User Awareness
Student(s) William Klein **Grade 10** **Town** GREENWICH

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

Greenwich Brunswick School Dana Montanez
 3514 LST 1 Regenerating Transformed Plant Cells Expressing Algal Cytochrome c6 to Increase Photosynthetic Yield in Plants

Student(s) Maximilian Konzerowsky **Grade 11** **Town** Darien
 Ashton Arjomand **Grade 11** **Town** Greenwich

* PepsiCo / Pfizer Life Sciences Awards --- 3rd Place - Life Sciences Senior High Team - Plaque

Greenwich Brunswick School Dana Montanez
 6034 PS 2 Designing a Data-collecting Robotic System to Negate the Effects of Eutrophication

Student(s) Ryan Kulsakdinun **Grade 10** **Town** Armonk

* Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 * Raytheon Corporation Awards --- \$500, Plaque
 * Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100

Greenwich Brunswick School Dana Montanez
 6508 PST 1 The Development of an Auto-Disable Syringe to Combat the Spread of Bloodborne Diseases via Intravenous Injection Drug Use

Student(s) Aidan Marks **Grade 11** **Town** Riverside
 Samuel Guadalupe **Grade 11** **Town** Greenwich

* Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Team- \$300(split) & Plaque
 * Stanley Black & Decker Applied Technology Awards --- 1st Place High School - \$500 and Plaque, Medallion

Greenwich Brunswick School Dana Montanez
 6515 PST 2 Reduction of Atmospheric Carbon Dioxide via production of Ammonium Carbonate by way of aqueous carbon sink.

Student(s) Henry Sorbaro **Grade 10** **Town** Greenwich
 Campbell Officer **Grade 10** **Town** Greenwich

* Future Sustainability Awards --- High School Finalist - Medallion

Greenwich Brunswick School Dana Montanez
 6517 PST 2 Creating a Renewable Energy System Powered by Pressurized Gas to Limit Production of Greenhouse Gases

Student(s) Hunter Spiess **Grade 10** **Town** Old Greenwich
 Collin Eschricht **Grade 10** **Town** Old Greenwich

* Future Sustainability Awards --- 2nd Place High School - \$300 Cash and Plaque

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Greenwich	Brunswick School	Dana Montanez	6501	PST	1	Recirculating Shower Filtration System: Utilizing Natural, Cost-Efficient, and Effective Materials to Consolidate The Purification of Water		
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Student(s)	Myles Spiess	Grade 11	Town	Old Greenwich
	Nicholas Altman	Grade 11	Town	Mount Kisco

- * Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences Senior High Team- \$500 (split) & Plaque
- * Future Sustainability Awards --- 1st Place High School - Plaque & \$800 Stipend to Compete at GENIUS Olympiad
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Future Sustainability

Greenwich	Greenwich Academy	Kristin Gannon	3011	LS	2	Spider Silk Amino Acid Composition and Its Impact on Structure Function: A Novel Computational Approach.		
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Student(s)	Helena Servin-DeMarrais	Grade 11	Town	Westport
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Greenwich	Greenwich Academy	Dr. Patrick Ashby	6008	PS	1	Using Fractal Metamaterials with Non-Integer Dimensionality to Manipulate the Propagation of Acoustic Waves		
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Student(s)	Natalie Shell	Grade 11	Town	Greenwich
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- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Raytheon Corporation Awards --- \$500, Plaque

Greenwich	Greenwich High School	Andrew Bramante	3020	LS	2	Design of a Rapid, Temperature-Independent, Highly-Accurate Dual-Antigen COVID-19 Detection Card		
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Student(s)	Steven Blank	Grade 11	Town	Greenwich
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Greenwich	Greenwich High School	Andrew Bramante	3075	LS	2	Colorimetric Smartphone-Based Detection of Salivary SOD2 on Photonic Opal Structures for the Rapid Diagnosis of Hepatocellular Carcinoma		
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Student(s)	Halla Clausi	Grade 12	Town	Cos Cob
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- * Collins Aerospace Engineering Awards --- 1st Place- Engineering Senior High- \$500 & plaque,

Greenwich	Greenwich High School	Andrew Bramante	6040	PS	1	Increasing Aerofoil Lift via Artificial Amplification of the Coanda Effect using Heat		
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Student(s)	Timothy Drinkall	Grade 12	Town	Old Greenwich
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- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & Plaque
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR
- * American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate
- * Connecticut Association of Physics Teachers --- \$100 Senior project
- * Connecticut College-Physics, Astronomy, & Geophysics Dept. --- Senior Award: Certificate, & teeshirt & \$25 Amazon Card from CSEF

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

Greenwich Greenwich High School Andrew Bramante
 6086 PS 3 Generalized Correction of Spatially and X-Z Correlated Errors through Adaptive Minimum-Weight Perfect Matching Topological Algorithms

Student(s) Samuel Florin **Grade** 12 **Town** Greenwich

* Mathematics Awards - with ATOMIC --- 1st Place High School- \$500 and Plaque

Greenwich Greenwich High School Andrew Bramante
 3018 LS 1 Linking Continued Exposure to E-cigarette Vapor Constituents with Chronic Obstructive Pulmonary Disease

Student(s) Hannah Goldenberg **Grade** 12 **Town** Old Greenwich

* PepsiCo / Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High- \$300 & Plaque
 * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
 * Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- plaque

Greenwich Greenwich High School Andrew Bramante
 3037 LS 1 Rapid, Noninvasive, Fluorescence-Based Detection for Elevated Levels of Nitric Oxide in Exhaled Breath, As a Marker for Hazardous PM2.5 Exposure

Student(s) Ambika Grover **Grade** 10 **Town** Riverside

* PepsiCo / Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High- \$500 & Plaque
 * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
 * H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering --- Life Sciences Senior 1st HS- \$1,000, Solid Silver Medal of Excellence, Invite to CASE Annual Mtg
 * Alexion Biotechnology Awards --- 1st Place- Biotechnology Senior High- \$500 & plaque
 * Connecticut Science Supervisors Association --- \$125 for a high school project
 * Susan Lessoff Award for Excellence In Chemistry --- Susan Lessoff Excellence In Chemistry Award -\$200 Cash and Plaque - High School
 * Biophysical Society --- Biophysics Award- \$100
 * Lunch with a Patent Attorney --- Lunch with a Patent Attorney

Greenwich Greenwich High School Andrew Bramante
 6058 PS 1 Design of a MFe₂O₄/Bentonite/Graphite Coated Polyurethane Sponge for Economical and Eco-Friendly Oil Spill Recovery

Student(s) Autumn Kim **Grade** 12 **Town** Greenwich

* Lockheed Martin Physical Sciences Awards --- 1st Place - Physical Sciences Senior High Individual - \$500 & Plaque
 * Stanley Black & Decker Applied Technology Awards --- 3rd Place High School - \$ 200 and Plaque, Medallion
 * Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion
 * Future Sustainability Awards --- High School Finalist - Medallion
 * H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering --- Physical Sciences 1st HS \$1,000, Solid Silver Medal of Excellence, Invite to CASE Annual Mtg
 * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR
 * National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEFF
 * The Goodwin-Niering Center for the Environment --- \$100 for "Excellence in Environmental Conservation Studies"

Greenwich Greenwich High School Andrew Bramante
 3100 LS 1 Identification of Irrationality and Risk Preference Variation In Generational Cohorts Using Proposed Risk Scenarios

Student(s) Adam Kleshchelski **Grade** 10 **Town** Riverside

* PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion

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

Greenwich Greenwich High School Andrew Bramante

3085 LS 3 Role of ICAM-1 in Facilitating Leukocyte Migration Across the Blood-Brain Barrier in the Progression of Multiple Sclerosis

Student(s) Prathit Kurup **Grade** 11 **Town** Riverside

- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology Senior High- \$300 & plaque
- * University of Hartford Scholarships --- University of Hartford Scholarship- For Excellence in Science or Mathematics \$27,000

Greenwich Greenwich High School Andrew Bramante

6070 PS 2 Design of a Wearable, Self-Powered, and Supercapacitor Energy-Storing Biosensor for Non-invasive Real Time Blood Alcohol Monitoring via Sweat

Student(s) Madeline Minichetti **Grade** 10 **Town** Greenwich

- * U.S. Metric Association --- Certificate & \$25 gift card given by CSEF
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR

Greenwich Greenwich High School Andrew Bramante

3107 LS 1 Inhibition of Covid-19 Respiratory Complications Via an R-954 Peptide Bradykinin 1 Receptor Antagonist

Student(s) Ella Moore **Grade** 11 **Town** Greenwich

- * PepsiCo / Pfizer Life Sciences Awards --- 5th Place- Life Sciences Senior High- Plaque
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Yale Science & Engineering Association, Inc. --- 1 Certificate, Medallion and 1- \$25 gift card given by CSEF
- * Lunch with a Patent Attorney ---

Greenwich Greenwich High School Andrew Bramante

3025 LS 1 Low-Pressure Application of Metal Nanoparticles to Soybean Seeds to Provide Increased

Student(s) Uma Pendkar **Grade** 12 **Town** Old Greenwich

- * PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- 1st Place HS- Plaque & \$800 Stipend to Compete at GENIUS Olympiad
- * Future Sustainability Awards --- High School Finalist - Medallion
- * Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to Awards Night Dinner with guest
- * TurnKey Compliance Solutions Environmental Awards --- \$300 Cash Award High School- For excellence in environmental sciences
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Environmental Project

Greenwich Greenwich High School Mr. Andrew Bramante

3111 LS 1 Prolonged, Smart Treatment of Multi-Drug Resistant Bacteria of Chronic Wounds via an EGCG-AgNP HydroMed Dressing

Student(s) Yurika Sakai **Grade** 10 **Town** Greenwich

- * PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * Collins Aerospace Engineering Awards --- 2nd Place- Engineering Senior High- \$400 & plaque
- * Regeneron Biomedical Science Award --- Certificate & \$500.00 cash

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

Greenwich Greenwich High School Andrew Bramante

6018 PS 2 Eco-friendly Remediation of Arsenic from Contaminated Water Resources Using Iron Fortified Spinach Roots and Biochar

Student(s) Elizabeth Wallace **Grade** 10 **Town** Greenwich

- * American Meteorological Society --- Certificate & \$25 gift card given by CSEF
- * Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF
- * Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition
- * J.A. Augustine Award --- \$100 for excellence in physical sciences

Greenwich Sacred Heart Greenwich Joan Fei

6041 PS 1 Testing an Activated Carbon Cloth Filter to Reduce the Prevalence of Phosphates and Nitrates in the Long Island Sound

Student(s) Abby Barnett **Grade** 11 **Town** Darien

- * Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences Senior High Individual - Plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition
- * University of Hartford Scholarships --- University of Hartford Scholarship- For Excellence in Engineering, or Technology, \$27,000
- * Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt & cap, First Place Senior

Greenwich Sacred Heart Greenwich Joan Fei

3055 LS 3 Testing for the Presence of Antibiotics in Poultry

Student(s) Grace Coale **Grade** 12 **Town** Stamford

Greenwich Sacred Heart Greenwich Joan Fei

3054 LS 1 Surveying Adolescent Public Opinion and Knowledge on Nuclear Energy

Student(s) Emma Rose Connolly **Grade** 12 **Town** Yonkers

- * PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * American Psychological Association --- Certificate, \$25 gift card given by CSEF

Greenwich Sacred Heart Greenwich Ms. Fei

3043 LS 1 The Effect of Applied Glucose on Moisture Retention and Growth of Saplings After Simulated Forest Fires.

Student(s) Regina Finn **Grade** 11 **Town** Old Greenwich

- * PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

Greenwich Sacred Heart Greenwich Joan Fei

6003 PS 2 Uncovering Abnormalities in Asteroids Using Asteroid Occultation

Student(s) Katherine May **Grade** 10 **Town** Wilton

- * Astronomical Society of Greater Hartford - The Charles Hammond Award for Excellence in Astronomy --- Senior Project-\$150, subscription to Sky and Telescope, ASGH membership and meeting invitation

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Greenwich	Sacred Heart Greenwich	Alycia Crane	3039	LS	3	Testing for Arsenic Contamination in Well, Municipal, and Agricultural Sources		
					Student(s) Sam Novak	Grade 12	Town stamford	
* Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to Awards Night Dinner with guest								
Greenwich	Sacred Heart Greenwich	Joan Fei	3105	LS	3	The Effects of Vitamin B9 on the Health and Lifespan of Tenebrionidae, the Darkling Beetle		
					Student(s) Fatima Scheggia	Grade 12	Town Old Greenwich	
Guilford	Guilford High School	Luke Rosnick	6035	PS	3	Impact of Holidays and Other Celebrations on Spread of COVID-19		
					Student(s) Jason Li	Grade 9	Town Guilford	
Guilford	Guilford High School	Luke Rosnick	6001	PS	1	Assessing the relationship between COVID-19 prevalence and optimal pool testing size		
					Student(s) Jerry Li	Grade 11	Town Guilford	
* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion * Mu Alpha Theta --- Certificate, \$25 gift card given by CSEF								
Guilford	Guilford High School	Dr. James Carlson	6023	PS	2	Developing a More Consistent Renewable Energy Source		
					Student(s) Michael Neiss	Grade 10	Town Guilford	
* Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Plaque * National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF * Fox Pest Control Award for Environmental Management --- \$150 Cash for Excellence in Environmental Management								
Hamden	Hamden Hall Country Day School	Gina D'Angelo	3081	LS	2	Influence of COVID-19 pandemic on swimming performance		
					Student(s) Evan Huang	Grade 10	Town Guilford	
Hamden	Hamden Hall Country Day School	Frank Gasparro	6077	PS	2	Using SiO2 Spray to Reduce Microplastics Dissolved Into the Oceans		
					Student(s) Leo Southam	Grade 10	Town Shelton	
* Future Sustainability Awards --- High School Finalist - Medallion								
Hamden	Sacred Heart Academy	Dr. Sibani Sengupta	3051	LS	2	Analysis of COVID-19 Treatment Options- Ayurvedic and Allopathic: Possible Combination Therapy Design		
					Student(s) Mehr Chhatre	Grade 11	Town Hamden	

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Hamden	Sacred Heart Academy	Elizabeth Christophy	3001	LS	2	Cyanobacteria and Its Effect on Elephant Population		
Student(s) Megan Doyle							Grade 10	Town Cheshire
Hamden	Sacred Heart Academy	Elizabeth Christophy	3006	LS	3	Transmission of COVID-19 Through Aerosols Spread by Musical Instruments		
Student(s) Gianna Gassira							Grade 10	Town North Branford
* American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 9-12 project								
Hamden	Sacred Heart Academy	Dr. Christophy	6090	PS	2	Space X; Friend or Foe The Starlink Operation and its Potentially Devasting Effects.		
Student(s) Grace Gogliettino							Grade 10	Town New Haven
Hamden	Sacred Heart Academy	Sibani Sengupta	3102	LS	2	Forest Fires Fuel Droughts		
Student(s) Emma Kirck							Grade 10	Town Orange
Hamden	Sacred Heart Academy	Pamela Brownell	3068	LS	3	CO2 Emissions to Polar Bears: How Reducing CO2 Emissions Can Protect The Ursus Maritimus		
Student(s) Alexandra Van Gelder							Grade 10	Town Branford
Hartford	Environmental Sciences Magnet School	Mrs. Hays	2510	L8	1	COVID-19's Impact on Water Quality in Recreational Areas Along the Long Island Sound Coastline		
Student(s) Isabella D'Agostino							Grade 8	Town New Brittan
* PepsiCo / Pfizer Life Sciences Awards --- 5th Place- Life Sciences 8th grade- plaque								
* Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- Middle School \$300 / plaque								
* CASE • The Jackson Laboratory Urban School Challenge Awards --- Middle School Finalist - Medallion								
* Environmental Sciences Awards with CACIWC --- 2nd Place MS- \$200, plaque								
* Southeastern New England Marine Educators (SENEME) --- \$100 award and membership in SENEME - 1st Place Junior & T-Shirt								
* Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash								
Hartford	Environmental Sciences Magnet School	MS. HAYS	2511	L8	1	Dog- Be Gone- Plastic: An evaluation of dog waste bag materials and biodegradation		
Student(s) Patroklos Pitsoulis							Grade 8	Town EAST HARTFORD
* PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion								
* Connecticut Science Supervisors Association --- \$125 for a middle school project								

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Hartford	Environmental Sciences Magnet School	Rebecca Hays	2516	L8	3	The impacts of the presence of Canada Geese (Branta Canadensis) on the water quality in local ponds and lakes.		
					Student(s) Eva Quijada	Grade 8	Town Middletown	
* CASE • The Jackson Laboratory Urban School Challenge Awards --- Middle School Finalist - Medallion * Environmental Sciences Awards with CACIWC --- MS Finalist - CSF Medallion								
Hartford	Renzulli Academy	Ms. Teawdatwan	5010	P7	2	How Fast Can Fabrics Dry?		
					Student(s) Dorian Ciscel	Grade 7	Town Hartford	
Hartford	Renzulli Academy	Foifon Teawdatwan	5516	P8	2	Fingerprint Preservation		
					Student(s) Melinda Das	Grade 8	Town Hartford	
Hartford	Renzulli Academy	Foifon Teawdatwan	2003	L7	3	Do gender and age affect smiling		
					Student(s) Amaris DeRosia-Estwick	Grade 7	Town Enfield	
Hartford	Renzulli Academy	Foifon Teawdatwan	5507	P8	2	Rusting Nails		
					Student(s) Amanda Eneh	Grade 8	Town Windsor	
Kensington	St. Paul School	Stacey Herbette	2009	L7	2	Does Color Affect Memory		
					Student(s) Ciara Colon	Grade 7	Town Berlin	
Kensington	St. Paul School	Ms. Herbette	5011	P7	2	What Material Conducts Electricity Best?		
					Student(s) Luke Kelly	Grade 7	Town Middletown	
Kent	Kent School	Kevin Saxton	6075	PS	3	Wildlife Recognition from Camera Trap Data using Computer Vision Algorithms		
					Student(s) Yuanqin (Albert) Dai	Grade 11	Town Newton	
* Computer Science Awards --- Senior High Finalist - Medallion * Kathleen & David Smith Awards --- Kathleen & David Smith Award for Innovative Concept - \$100								

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

Kent Kent School Michael Green

6089 PS 2 Influence of magnetic field on the viscosity of fluids doped with conducting and non-conducting particulates

Student(s) Shaun Gu **Grade** 11 **Town** Beijing

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

Kent Kent School Jesse Klingebiel

3086 LS 2 Examining the energy efficiency of variations of Synechocystis nigrescens and Shewanella oneidensis bioinks in biophotovoltaic cells

Student(s) Youngju Jang **Grade** 11 **Town** Holbrook

* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
 * Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF

Kent Kent School Jesse Klingebiel

6072 PS 1 Exoskeleton Hand Based on MMG Signals for Partially Paralyzed Patients

Student(s) Siyi Lu **Grade** 10 **Town** Kent

* Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences Senior High Individual - \$200 & Plaque
 * IEEE, Connecticut Section --- \$100 Honorable Mention

Manchester Manchester High School Wendy Turek

3072 LS 1 The Effect of Dissolved Flavonoid Supplements on the Chelation of Iron in a Solution

Student(s) Paige Gagnon **Grade** 12 **Town** Manchester

* PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 * CASE • The Jackson Laboratory Urban School Challenge Awards --- 2nd Place High School - \$400 and Plaque, Medallion

Manchester Manchester High School Wendy Turek

3032 LS 2 The Effects of Bacillus and Trichoderma Inoculant and Lepidum Sativum on

Student(s) Alexandra Hamza **Grade** 11 **Town** Manchester

* CASE • The Jackson Laboratory Urban School Challenge Awards --- Senior High Finalist - Medallion
 * Future Sustainability Awards --- High School Finalist - Medallion
 * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
 * University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$80,000 (\$20,000 per year)

Manchester Manchester High School Wendy Turek

6033 PS 3 Lego Prosthetic Arm

Student(s) Hina Naeem **Grade** 12 **Town** Manchester

* Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- High School- \$150 / plaque
 * Robert Francoeur Memorial Award --- Creative or innovative project in engineering or computer science by female students - \$200

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Manchester	Manchester High School	Wendy Turek	3066	LS	3	Tracking Changes in the Mycobiota of Human Feet Over the Course of Seven Months		
			Student(s)		Shannon Nesta	Grade 12	Town	Manchester
Manchester	Manchester High School	Ms. Turek	3021	LS	2	The Cognitive Abilities of Bearded Dragons		
			Student(s)		Giuliana Squatrito	Grade 12	Town	Manchester
Middlebury	Westover School	Sarah Michaelson	3074	LS	2	Discussing possible side effects of non-small cell lung cancer drugs based on active ingredients and their inhibitory impacts in relation to other pathways and similar structures.		
			Student(s)		Sarah Adams	Grade 11	Town	Sandy Hook
Milford	Jonathan Law High School	Christine Bouchard	3030	LS	3	Studies on the ecological effects of COVID-19 and its future implications on the emergence of disease, repercussions on habitats, and presence of wildlife		
			Student(s)		Meghana Cheela	Grade 12	Town	Milford
Milford	Jonathan Law High School	Christine Bouchard	3059	LS	3	Studies on the effects and trends of genes and their association to diseases and how certain environmental factors may play a significant role		
			Student(s)		Sreeya Gudlavalleti	Grade 12	Town	Milford
Milford	Jonathan Law High School	Christine Bouchard	3095	LS	3	Studies on the progression of vaccine development trends through different pandemics and their comparisons to the COVID-19 vaccine		
			Student(s)		Srivarsh Gudlavalleti	Grade 9	Town	MILFORD
Milford	Jonathan Law High School	Christine Bouchard	3003	LS	3	Exploring Pandemics		
			Student(s)		Moulika Sivalenka	Grade 9	Town	Milford
Milford	Jonathan Law High School	Christine Bouchard	3042	LS	3	What do seasonal Multiple Sclerosis development patterns indicate about the disease, and how can we use this information to reduce the influence of environmental factors?		
			Student(s)		Rachna Vipparla	Grade 12	Town	Milford
Milford	Lauralton Hall	Dr. Susan Cavar	3103	LS	2	Analysis of the Identity of the Genotype 4 Eurasian Avian-like H1N1 Virus and an Epidemiological Study of Possible Human Transmission Leading to a Pandemic		
			Student(s)		Anika Thite	Grade 11	Town	Milford

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

New Haven Engineering & Science University Magnet School Roger Rushworth

6032	PS	2	Gravity-Assisted Energy Conversion: Improving the Feasibility of Mechanically Powered Electricity Generators
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Student(s) Aiman-Imran Anuar **Grade** 11 **Town** West Haven

- * CASE • The Jackson Laboratory Urban School Challenge Awards --- Senior High Finalist - Medallion
- * Jon Chapis Memorial Award --- John Chapis Spirit of Innovation Award - HS \$200
- * University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$80,000, \$20,000 per year)
- * Fred Olender Urban School Challenge Award --- \$250 Cash Award for HS student in USC school

New Haven Engineering & Science University Magnet School Roger Rushworth

6066	PS	3	Natural Function Restrictions, Identities, and Properties to Determine Finite Cardinalities of Solutions for Real-Valued Functions Projected onto Natural Space
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Student(s) Praneeth Chitirala **Grade** 10 **Town** Milford

- * Mathematics Awards - with ATOMIC --- High School Finalist - Medallion
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- Senior High Finalist - Medallion
- * Mu Alpha Theta --- Certificate, \$25 gift card given by CSEF
- * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

New Haven Engineering & Science University Magnet School Roger Rushworth

5501	P8	1	Implementation of Metal-Oxide-Induced Agglomeration and Electromagnetic Filtration for Removal of Microplastics
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Student(s) Snigtha Mohanraj **Grade** 8 **Town** Ansonia

- * Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & plaque, invitation to compete in Broadcom Masters
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- 1st Place Middle School - \$300 and plaque, Medallion
- * Stanley Black & Decker Applied Technology Awards --- 1st Place Middle School - \$300 and Plaque, Medallion
- * Environmental Sciences Awards with CACIWC --- 1st Place MS - \$300, plaque
- * Future Sustainability Awards --- 3rd Place Middle School - \$100 Cash and plaque
- * Connecticut Academy of Science and Engineering Middle School Urban School Challenge Award --- Urban School Challenge 1st MS- \$250 Cash Award, Invite to attend CASE's Annual Meeting
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 8th grader- Project Oceanology's Ocean Camp
- * TurnKey Compliance Solutions Environmental Awards --- \$200 Cash Award Middle School- For excellence in environmental sciences
- * GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project
- * Environmental / Energy Award- Urban Public School Award --- Environmental / Energy Award- Urban Public School Award - \$431.40

New Haven Engineering & Science University Magnet School Roger Rushworth

3069	LS	3	EVALUATION OF A MODEL FOR URBAN VEGETATION BARRIERS' EFFECTS ON AIR POLLUTION
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Student(s) Ray Nassar **Grade** 10 **Town** Milford

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

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
New Haven	Hopkins School	Nathaniel Peters	6076	PS	1	Developing Tetherless Motion Tracking System for Wandering Insects Using an Omni-directional Servosphere Robot		
Student(s) Nicholas Lee						Grade 10	Town Trumbull	
<ul style="list-style-type: none"> * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion * Mathematics Awards - with ATOMIC --- 2nd Place High School- \$300 and Plaque * Computer Science Awards --- 2nd Place High School - \$300, Plaque * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion * Raytheon Corporation Awards --- \$500, Plaque * IEEE, Connecticut Section --- \$100 Honorable Mention 								
New Haven	Hopkins School	Dr. Phillip Stewart	6092	PS	2	The Core of Neptune: Discovery of the First Sub-Neptune Planet with a Stripped Envelope		
Student(s) David Zhou						Grade 12	Town WESTPORT	
<ul style="list-style-type: none"> * Astronomical Society of Greater Hartford - The Charles Hammond Award for Excellence in Astronomy --- Junior Project-\$100, subscription to Sky and Telescope, ASGH membership and meeting invitation 								
New Haven	Sound School	Chuck Mulligan	3029	LS	3	Comparison of Potential for Coastal Marine Macroalgae to Absorb Excess Nitrate in Runoff		
Student(s) Luke DeCola						Grade 9	Town North Branford	
New Haven	Sound School	Charles Mulligan	3008	LS	3	Potential Use of Marine Microalgae to Absorb Excess Salt Road Runoff		
Student(s) Zachary Succow						Grade 9	Town Seymour	
New London	New London High School	David Brown	6059	PS	3	The Effect of CPU Core Count on PC Performance		
Student(s) Krishveer Grewal						Grade 10	Town Waterford	
New London	New London High School	Pourmoghadam Mercedeh	3091	LS	3	Active Aeration of Hydroponic Systems.		
Student(s) Andrew McLaughlin						Grade 11	Town New London	
Norwich	Norwich Technical High School	Aleatha Pelloni	3518	LST	3	Purifying protein in C. Elegans to match the human protein		
Student(s) Kyle Caswell						Grade 11	Town Gales ferry	
madison tweedy						Grade 11	Town Gales ferry	
<ul style="list-style-type: none"> * Technical High School Science & Technology Awards --- 3rd Place- Technical High School , \$200, Plaque 								

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

Norwich Norwich Technical High School Aleatha Pelloni
 3505 LST 2 The Effects of Sugar Diets in Drosophila melanogaster

Student(s) Ava Johnson **Grade 11** **Town** oakdale
 Elkin Garcia **Grade 11** **Town** newlondon

* Technical High School Science & Technology Awards --- Technical High School Finalist - medallion

Norwich Norwich Technical High School Aleatha Pelloni
 6503 PST 2 Sucrose vs Drosophila Melanogaster Hyperactivity

Student(s) Janessa Reels **Grade 11** **Town** Taftville
 CaitylInne Howard **Grade 11** **Town** Oakdale

* Technical High School Science & Technology Awards --- Technical High School Finalist - medallion

Norwich Norwich Technical High School Aleatha Pelloni
 3509 LST 3 Converting Natural Byproducts Into Soil Compost For Crops Using The Bokashi Method

Student(s) Luis Salazar **Grade 11** **Town** Willimantic
 Nina Mendez **Grade 11** **Town** Sterling
 Gabriella Fedus **Grade 11** **Town** Oakdale

* Technical High School Science & Technology Awards --- 1st Place- Technical High School, Plaque & Stipend to Compete at GENIUS Olympiad

* GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place Technical High School

Norwich Norwich Technical High School Aleatha Pelloni
 3519 LST 3 Testing GMO Crops for Continued RNAi Ampicillin-Resistant.

Student(s) Richard Savoie **Grade 11** **Town** Colchester
 Ryan Riley **Grade 11** **Town** Lisbon

* Technical High School Science & Technology Awards --- Technical High School Finalist - medallion

Norwich Norwich Technical High School Aleatha Pelloni
 3508 LST 2 The antimicrobial effects of copper on antibiotic resistant strains of bacteria.

Student(s) Nola Smith **Grade 11** **Town** Salem
 Georgia Fowler **Grade 11** **Town** Scotland

* Technical High School Science & Technology Awards --- 2nd Place- Technical High School , \$300, Plaque

Orange Southern CT Hebrew Academy Theresa Pearce
 2518 L8 3 Let's Get Scrubbing!

Student(s) Chaya'le Wilhelm **Grade 8** **Town** Milford

* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

Pawcatuck St. Michael School Anna-Helene Grossomanides
 2505 L8 2 Farmer's Market vs. Supermarket Vegetables: Who has Higher Nutrient Content?

Student(s) Emerson Baltrukonis **Grade 8** **Town** Pawcatuck

* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

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

Pawcatuck St. Michael School Anna-Helene Grossomanides

5008 P7 1 Remote Learning on a Budget

Student(s) Joseph Benin **Grade 7** **Town Pawcatuck**

- * Lockheed Martin Physical Sciences Awards --- 5th Place- Physical Sciences 7th Grade Individual - plaque
- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * Computer Science Awards --- 2nd Place Middle School - \$200, plaque
- * IEEE, Connecticut Section --- \$250 Honors Award -Junior
- * Susan and Stanley Lessoff Memorial Award --- Susan and Stanley Lessoff Memorial Award - \$250 Cash and Plaque MS

Pawcatuck St. Michael School Anna-Helene Grossomanides

5001 P7 1 Oxidation Proclamation

Student(s) John Bennett **Grade 7** **Town Stonington**

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion

Pawcatuck St. Michael School Anna Grossomanides

5509 P8 1 Are All Masks Equal?

Student(s) Katelyn Cadmus **Grade 8** **Town Pawcatuck**

- * Lockheed Martin Physical Sciences Awards --- 5th Place- Physical Sciences 8th Grade Ind. - plaque
- * Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100

Pawcatuck St. Michael School Anna Grossomanides

5505 P8 3 How much water can a Solar-powered water desalination unit produce?

Student(s) Cameron Cornelius **Grade 8** **Town Bradford**

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

Pawcatuck St. Michael School Mrs. Anna Grossomanides

2016 L7 2 Do You Get More Bees With Honey?

Student(s) Jason Spiers **Grade 7** **Town North Stonington**

Redding CT-STEM Catherine Piscitelli

3031 LS 2 The Effect of Different Types of Media on Empathetic Behavior

Student(s) Shreya Hebbar **Grade 10** **Town Woodbridge**

Redding CT-STEM Catherine Piscitelli

3071 LS 2 The Role of Gene Expression in Non-Homologous End Joining Pathways in the Progression of Ovarian Cancer

Student(s) Ethan Lavi **Grade 12** **Town Woodbridge**

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Redding	CT-STEM	Catherine Piscitelli	3106	LS	3	The Effect of Organic Duckweed versus Chemical Fertilizer on the Growth of Lactuca sativa and Ortho-Phosphate Runoff		
			Student(s)		Maggie Liu		Grade 11	Town Woodbridge

Redding	CT-STEM	Catherine Piscitelli	3504	LST	1	Development of a WatchOS Application that uses HRV and Vibrational Pulses to Reduce Stress		
			Student(s)		Sheehan Munim		Grade 10	Town Orange
					Allen Liu		Grade 10	Town Woodbridge

* PepsiCo / Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High Team- \$500 (split) & Plaque
 * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion

Redding	CT-STEM	Catherine Piscitelli	6061	PS	2	Creating an Algorithm that Automatically Scores Tissue Images Like a Pathologist		
			Student(s)		Iris Yan		Grade 9	Town Woodbridge

* Computer Science Awards --- 3rd Place High School- \$200, Plaque

Redding	Joel Barlow High School	Paul Testa	6048	PS	3	The Effect of Various Ammonium Nitrate Concentrations on Rates of Transpiration in Phaseolus lunatus to Ameliorate Drought Tolerance		
			Student(s)		Reed Cooper		Grade 11	Town Easton

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

Redding	Joel Barlow High School	Paul Testa	3004	LS	1	The Use of Pleurotus Ostreatus As Mycoremediation for Poly-Lactic Acid Plastic In Landfills.		
			Student(s)		Alexis Ogrinz		Grade 11	Town Easton

* PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
 * Future Sustainability Awards --- High School Finalist - Medallion
 * Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF

Ridgefield	Ridgefield High School	Patrick Hughes	6015	PS	3	Downsizing Nuclear Fusion Devices to a More Manageable Size		
			Student(s)		Jake Amara		Grade 12	Town RIDGEFIELD

Ridgefield	Ridgefield High School	Mr. Gleason	3520	LST	2	The Socio-economic Implications of COVID-19 on the Ridgefield, Connecticut Community		
			Student(s)		Caroline Clifford		Grade 12	Town Ridgefield
					Julia Grey		Grade 12	Town Ridgefield

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

Ridgefield Ridgefield High School Ryan Gleason
 3501 LST 3 The Effect of Age and Duration of Routine Exercise on the Development and Risk of Dementia

Student(s) Emma Daugherty **Grade** 12 **Town** Ridgefield
 Ainsley Brady **Grade** 12 **Town** Ridgefield

Ridgefield Ridgefield High School Ryan Gleason
 6511 PST 1 Analyzing the Ability of the SCiO Spectrometer to Detect the Presence of Nutrients in Soil

Student(s) Megan Dunphy **Grade** 12 **Town** Ridgefield
 Kelsi Wilkenloh **Grade** 12 **Town** Ridgefield

- * Lockheed Martin Physical Sciences Awards --- 3rd Place - Physical Sciences Senior High Team - Plaque
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion
- * Future Sustainability Awards --- High School Finalist - Medallion

Ridgefield Ridgefield High School Patrick Hughes
 3510 LST 1 A Simple Model of guideRNA for CRISPR-Cas9

Student(s) Claire Griffin **Grade** 12 **Town** Ridgefield
 Isabel Voellmicke **Grade** 12 **Town** Ridgefield

- * PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion

Ridgefield Ridgefield High School Ryan Gleason
 3060 LS 3 Studying the Behavior of Dogs in Relation to COVID-19

Student(s) Isabel Griffith **Grade** 12 **Town** Ridgefield

Ridgefield Ridgefield High School Ryan Gleason
 3012 LS 1 Analysis of regenerated mouse digit tips following modulation of Amphiregulin expression

Student(s) Luke Hisiger **Grade** 12 **Town** Ridgefield

- * PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion

Ridgefield Ridgefield High School Ryan Gleason
 6083 PS 2 Comparing the Efficiency of Autonomous and Regular Vehicles With New Requests

Student(s) Danlin Luo **Grade** 12 **Town** Ridgefield

Ridgefield Ridgefield High School Mr. Gleason
 6002 PS 1 Comparing wood/plastic composite & hemp/PLA composite to natural materials to determine the best moisture resistant bioplastic

Student(s) Samantha McLemore **Grade** 12 **Town** Ridgefield

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Ridgefield	Ridgefield High School	Ryan Gleason	3058	LS	3	Effects of Climate Change and Environmental Variability on High Altitude Aspen Degradation		
			Student(s)		Ethan Mills	Grade 12	Town	Ridgefield
Ridgefield	Ridgefield High School	Ryan Gleason	3002	LS	1	Exploring p53 Mutation Status and Clinical Outcome in Ovarian Cancer		
			Student(s)		Devansi Sinha	Grade 12	Town	Ridgefield
* PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion								
Riverside	Eastern Middle School	Ms. Iannacone	2519	L8	1	Can trust kill? Covid-19 and Social Capital		
			Student(s)		Zara Haque	Grade 8	Town	Riverside
* PepsiCo / Pfizer Life Sciences Awards --- 1st Place- Life Sciences 8th grade- \$300 & plaque								
* Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Life Sciences 8th Grade - \$500 and invite to CSTA Award Banquet								
* Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS								
Sandy Hook	Newtown High School	Timothy DeJulio	3015	LS	2	Bacterial decomposition and consumption of PET plastics as a sole metabolic energy source		
			Student(s)		Aidan Hall	Grade 12	Town	Sandy Hook
Sandy Hook	Newtown High School	Timothy DeJulio	6004	PS	2	Bird Identification Using Python and Keras CNN		
			Student(s)		Lucca Lapiere	Grade 11	Town	Newtown
Sandy Hook	Newtown High School	Timothy DeJulio	6050	PS	2	System for Underwater Passive Identification of Acoustic Signatures of the Delphinapterus leucas		
			Student(s)		Isha Mendiratta	Grade 11	Town	Newtown
Sandy Hook	Newtown High School	Timothy DeJulio	6012	PS	2	Modular Robotic System for Multipurpose Robots		
			Student(s)		Benjamin Ochs	Grade 11	Town	Sandy Hook
Sandy Hook	Newtown High School	Timothy DeJulio	6005	PS	2	Accessible program and system to accurately align a star tracking mount using a DSLR camera.		
			Student(s)		Sam Staubly	Grade 11	Town	Newtown
* Jon Chapitis Memorial Award --- John Chapitis Spirit of Innovation Award - MS \$100								

Conn. Science & Engineering Fair

Winning Projects

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

Sandy Hook Newtown High School Tim DeJulio

6093 PS 2 Python Cybersecurity Tool

Student(s) Sanjana Vakacherla **Grade** 12 **Town** Newtown

Simsbury Westminster School Susie Bailey

6085 PS 3 Hazel, an olfactory mood enhancer, alarm clock, and safety monitor

Student(s) Jiwoong Park **Grade** 12 **Town** Brooklyn

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

Stamford Bi-Cultural Hebrew Academy Christopher Graseck

1005 LT 3 Droughts Effect on Plants

Student(s) Hannah Cohen **Grade** 7 **Town** Stamford
 Rebecca Forti **Grade** 7 **Town** Woodbridge

* Future Sustainability Awards --- Middle School Finalist - Medallion

Stamford Bi-Cultural Hebrew Academy Christopher Graseck

1006 LT 1 Studying Four Climate Change Factors that Impact Plant Growth

Student(s) David Isaacs **Grade** 7 **Town** Stamford
 Gabriel Haron **Grade** 7 **Town** Stamford

* PepsiCo / Pfizer Life Sciences Awards --- 1st Place- Life Sciences MS Team- \$100 each & plaque
 * Future Sustainability Awards --- 2nd Place Middle School - \$200 Cash and plaque
 * Alexion Biotechnology Awards --- 1st Place- Biotechnology 7th grade- \$300 & plaque
 * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
 * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS for 1st - 4th MS winners

Stamford King School Victoria Schulman

3034 LS 2 Mispositioned Myonuclei Likely Contribute to Muscle Fatigue

Student(s) Giovanna Armetta **Grade** 11 **Town** stamford

Stamford King School Victoria Schulman

3084 LS 1 Non-Canonical Base Pairing in Self-Assembling DNA Crystals

Student(s) William Bernfeld **Grade** 11 **Town** Stamford

* PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 * Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF

Stamford King School Victoria Schulman

3007 LS 3 Genes Dysregulated in Obesity Increase the Likelihood of Breast Cancer Development

Student(s) Jacob Boyar **Grade** 12 **Town** Ridgefield

* Computer Science Awards --- Senior High Finalist - Medallion

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Stamford	King School	Victoria Schulman	6073	PS	2	The Electrochemical Oxidation of Methane in a Fuel Cell Utilizing Carbon Sequestration		
					Student(s)	Samuel Hillenmeyer	Grade 12	Town Stamford
* Future Sustainability Awards --- High School Finalist - Medallion								
Stamford	King School	Victoria Schulman	3026	LS	3	Deep venous intervention surgeries for lower extremities in out-patient offices do not create additional complications compared to hospital setting		
					Student(s)	Nadia Kucher	Grade 12	Town Stamford
Stamford	King School	Victoria Schulman	6043	PS	3	Using an Automated Drone and Camera System to Improve the Safety of Schools and Other Populated Areas in a Cost Effective Manner		
					Student(s)	Alexander Lim	Grade 12	Town Old Greenwich
Stamford	King School	Victoria Schulman	6028	PS	2	Thermoelectric heating and cooling of an electric vehicle using phase change material.		
					Student(s)	Adam Nomani	Grade 11	Town Stamford
Stamford	King School	Victoria Schulman	3088	LS	1	Feraheme ® works synergistically with several ROS-inducing drugs for the treatment of pancreatic adenocarcinoma		
					Student(s)	Wafa Nomani	Grade 12	Town STAMFORD
* PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion								
* Alexion Biotechnology Awards --- 4th Place- Biotechnology Senior High- plaque								
Stamford	King School	Victoria Schulman	6053	PS	3	Clustering of TiMnOx XAFS Data		
					Student(s)	John Russell	Grade 11	Town Riverside
* ASM Materials Education Foundation --- Certificate & \$25 gift card given by CSEF								
Stamford	King School	Victoria Schulman	3057	LS	2	Escherichia coli Utilizes the Fe3+ ion for Protection Against LL-37		
					Student(s)	Joseph Winterlich	Grade 12	Town Stamford
Stamford	Bi-Cultural Hebrew Academy	Christopher Graseck	1003	LT	2	The Effect of Pollutants on Brine Shrimp [Artemia salina] Hatching		
					Student(s)	Asher Marcus	Grade 7	Town Westport
						Eddie Janush	Grade 7	Town Stamford
* Alexion Biotechnology Awards --- 2nd Place- Biotechnology 7th grade- \$200 & plaque								

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Suffield	Suffield High School	Melanie Brown	3513	LST	3	Creating Energy with Household Food Waste		
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Student(s)	John-Henry Burke	Grade 11	Town	Suffield
	Isabella Hinkle	Grade 11	Town	Suffield

* Alternative/Renewable Energy Awards --- High School Finalist - Medallion
 * Institute of Food Technologists, Nutmeg Section --- \$150 award + invitation to Awards Night Dinner with guest

Suffield	Suffield High School	Melanie Brown	6062	PS	3	MetaProgramming: Code That Creates Code		
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Student(s)	Joseph Colangelo	Grade 9	Town	Suffield
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Suffield	Suffield High School	Melanie Brown	6029	PS	3	Strength of Environmentally Friendly Aggregates in Concrete		
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Student(s)	Peter Danise	Grade 11	Town	Suffield
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Suffield	Suffield High School	Melanie Brown	3099	LS	2	The Study of Demodex Folliculorum and Demodex Brevis Mite Population and Bacteria Growth in Relation to Wearing a Face Mask		
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Student(s)	Ana-Lois Davis	Grade 9	Town	Broad Brook
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* Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place High School \$250 / plaque

Suffield	Suffield High School	Melanie Brown	3047	LS	2	Extensive Look Into the Rising Maternal Morality of African American Women and the Factors Behind It		
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Student(s)	Laila Lawson	Grade 12	Town	West Suffield
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Suffield	Suffield High School	Melanie Brown	3092	LS	3	Improving diets of astronauts and decreasing the amount of space taken up in long duration spaceflight		
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Student(s)	Sarah Michael	Grade 9	Town	West Suffield
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Suffield	Suffield High School	Melanie Brown	6507	PST	3	Possibilities for Artificial Gravity.		
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Student(s)	Jack Shanks	Grade 11	Town	Suffield
	Wyatt Cashman	Grade 11	Town	Suffield

Suffield	Suffield High School	Melanie Brown	3507	LST	1	The Effects of Extra Exposure to Blue Light, due to Distance Learning, on Different Age Groups		
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Student(s)	Noor Sharaf	Grade 11	Town	Suffield
	Emma Conway	Grade 9	Town	Suffield

* PepsiCo / Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High Team- \$300 (split) & Plaque

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Suffield	Suffield High School	Melanie Brown	6007	PS	3	Utilization of Self- Sanitizing Hydraulic Arm for Reduction of Illness Transmission		
			Student(s)		Haley Young	Grade 12	Town	West Suffield
<p>* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2</p>								
Suffield	Suffield High School	Melanie Brown	3094	LS	3	Heating oceans and their threats to marine life.		
			Student(s)		Shannon Young	Grade 9	Town	West Suffield
Thomaston	Thomaston High School	Bryan Holmes	3098	LS	3	Advances In Water Quality		
			Student(s)		Hannah Lawlor	Grade 11	Town	Thomaston
Thomaston	Thomaston High School	Bryan Holmes	6054	PS	3	The Effect of Limb Darkening on the Sun During Solar Flares and Coronal Mass Ejections		
			Student(s)		Julia Pupriqi	Grade 11	Town	Thomaston
Thomaston	Thomaston High School	Mr. Holmes	6031	PS	3	Absorbent/Refrigerant Pairs used for Heat Pumps and Heat Rejection Technology on Spacecraft.		
			Student(s)		Connor Riley	Grade 11	Town	Thomaston
Thomaston	Thomaston High School	Bryan Holmes	6045	PS	2	Investigation of Unexplained Intermediate Freeze Point Characteristics as Tested by a Newly Developed Multispectral Optical Biojet Fuel Freeze Point Analyzer.		
			Student(s)		Zachary Stevenson	Grade 11	Town	Thomaston
Thomaston	Thomaston High School	Mr. Bryan Holmes	6074	PS	2	Measuring Masses of Stars		
			Student(s)		Dylan Walmsley	Grade 11	Town	Thomaston
Trumbull	Christian Heritage School	Dr. Dan Cote	3108	LS	2	Using Virtual Screening to Identify Drug Candidates to Target SARS-CoV-2		
			Student(s)		Luke Audie	Grade 11	Town	Cheshire
<p>* Computer Science Awards --- Senior High Finalist - Medallion</p>								

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

Trumbull Christian Heritage School Dan Cote

6060 PS 1 Building a Machine to Test Whether Certain Facemasks Are Protective or Not

Student(s) Maxwell Barbagallo **Grade 11** **Town Sandy Hook**

- * Lockheed Martin Physical Sciences Awards --- 5th Place- Physical Sciences Senior High Individual - Plaque
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 9-12 project

Trumbull Christian Heritage School Dan Cote

5503 P8 2 Determination of the optimum stoichiometric ratio of H2O2/KI reaction for the production of gas volume

Student(s) Max Kim **Grade 8** **Town Westport**

Trumbull Christian Heritage School Daniel Cote

6014 PS 3 Renewable Energy: Converting Vibrational Motion

Student(s) Natania Muriel **Grade 11** **Town Shelton**

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

Trumbull Christian Heritage School Dan Cote

6020 PS 2 Design and Fabrication of a Thermoelectric Generator to Charge a Phone Using Simple Fuels for Remote Areas

Student(s) Nathan Nagel **Grade 11** **Town Caucasian/White**

- * Alternative/Renewable Energy Awards --- 3rd Place High School - \$200 Cash and Plaque
- * University of Hartford Scholarships --- University of Hartford Scholarship- For Excellence in Engineering, or Technology, \$27,000

Uncasville Saint Bernard School Nicole Nelson

6087 PS 2 The Hat and the Mouse: A Practical Hands-Free Method to Control a Personal Computer

Student(s) Payton Noe **Grade 10** **Town East Lyme**

- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- High School \$500 / plaque
- * Computer Science Awards --- 1st Place High School - \$400, Plaque
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Raytheon Corporation Awards --- \$500, Plaque
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR
- * Dreams Unlimited Award --- \$100 Cash Award + Certificate to each student

Wallingford Choate Rosemary Hall Kyle Di Tieri

6063 PS 2 Development of an autonomously driving robot which can remotely scan body temperature to screen for COVID-19

Student(s) Ryan Kim **Grade 10** **Town Wallingford**

- * Collins Aerospace Engineering Awards --- 3rd Place- Engineering Senior High- \$200 & plaque
- * Raytheon Corporation Awards --- \$500, Plaque
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR
- * IEEE, Connecticut Section --- \$250 Honors Award -Senior

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

Wallingford Choate Rosemary Hall Jan Cook

3014 LS 2 Combatting Nitrogen Pollution and Eutrophication Using Denitrifying Bioreactors

Student(s) Jessica Wu **Grade** 11 **Town** Wilton

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion
- * Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition
- * University of Hartford Scholarships --- University of Hartford Scholarship- For Excellence in Science or Mathematics \$27,000

Westport Greens Farms Academy Dr. Mathieu Freeman

3096 LS 2 The Impact of Essential Oils on Food Preservation Throughout the Fast Food Industry

Student(s) Zoe Koskinas **Grade** 12 **Town** Fairfield

- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion

Westport Greens Farms Academy Dr. Mathieu Freeman

6096 PS 2 Exploring the Rate of Photodegradation of Different Microplastics

Student(s) Hannah MacDonald **Grade** 12 **Town** Stamford

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion

Westport Greens Farms Academy Mathieu Freeman

6026 PS 2 The Effect of pH on Chlorophyll-a Concentration and the Net Primary Productivity of Phytoplankton

Student(s) Lucy Nelson **Grade** 12 **Town** Westport

- * Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF
- * Southeastern New England Marine Educators (SENEME) --- \$100 award and membership in SENEME - 1st Place Senior & T-Shirt

Westport Greens Farms Academy Mathieu Freeman

6021 PS 2 The Fabrication of a Cost-Effective Paper LIB with Increased Voltage and Longevity

Student(s) Jackson Rassias **Grade** 12 **Town** Fairfield

- * Stanley Black & Decker Applied Technology Awards --- 2nd Place High School - \$300 and Plaque Medallion
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR

Windsor Academy of Aerospace and Engineering Dr. Lili Aramli

3112 LS 2 Optimal Light Conditions for the Growth of Biofuel Algae

Student(s) Isabel Edelstein **Grade** 12 **Town** Plantsville

Windsor Academy of Aerospace and Engineering Lili Aramli

3512 LST 3 Planaria Regeneration

Student(s) Shreya Kulkarni **Grade** 11 **Town** Middletown
 Calah Williams **Grade** 11 **Town** West Hartford

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

Windsor Academy of Aerospace and Engineering Dr.Aramli
 3053 LS 3 The Effect of Artificial and Natural Lighting on Dinoflagellate Growth and Bioluminescence
Student(s) Samary Nieves **Grade** 11 **Town** Hartford

Windsor Academy of Aerospace and Engineering Lili Aramli
 3521 LST 3 Effects of Microplastics on the Regeneration of Organisms
Student(s) Ashley Rinaldi **Grade** 12 **Town** Enfield
 Kalia Brown **Grade** 12 **Town** Windsor

Windsor Madina Academy Mr. Timothy Coleman
 4005 PT 1 Self-Sustaining Indoor Garden
Student(s) Noora Khaled **Grade** 7 **Town** Suffield
 Bayan Abed **Grade** 7 **Town** Rocky Hill
 Zainah Khaliq **Grade** 7 **Town** Windsor

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences MS Team- \$100 each & plaque
- * Future Sustainability Awards --- 1st Place Middle School - \$300 Cash and plaque
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & plaque

Windsor Madina Academy Mr. Tim Coleman
 4006 PT 1 The Better Solar Panel
Student(s) Hamza Mhaidat **Grade** 7 **Town** Windsor Locks
 Shah Sheikh **Grade** 7 **Town** West Hartford
 Adam Afolabi **Grade** 7 **Town** Windsor

- * Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences MS Team- plaque

Windsor Madina Academy Mr. Timothy Coleman
 2515 L8 3 Building and Testing a Simple Portable Constructed Wetland to Purify Greywater
Student(s) Tasneem Zoghlo **Grade** 8 **Town** Enfield

- * Environmental Sciences Awards with CACIWC --- MS Finalist - CSF Medallion
- * Future Sustainability Awards --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Life Science

Windsor The Loomis Chaffee School Mark LeBlanc
 3005 LS 1 Probing Wolbachia Genomes with Machine Learning Algorithms
Student(s) Sean Lee **Grade** 11 **Town** Los Altos

- * PepsiCo / Pfizer Life Sciences Awards --- 4th Place- Life Sciences Senior High- Plaque

Windsor The Loomis Chaffee School Koby Osei-Mensah
 6022 PS 3 Incorporating Pre-Game Rankings to Colley, Massey, and Elo
Student(s) Jiayin Liu **Grade** 12 **Town** Waterloo

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

Windsor The Loomis Chaffee School Koby Osei-Mensah
 6069 PS 2 Comparing Algorithms to Solve the Exact Cover Problem with Sudoku
Student(s) Aresh Pourkavoos **Grade 12** **Town Avon**

Windsor The Loomis Chaffee School Mr. Osei-Mensah
 6013 PS 2 Identifying the host galaxies of 2175 A quasar absorbers.
Student(s) Benson Wang **Grade 10** **Town San Ramon**
 * Arthur & Ruth Mensing Award --- Mensing Award Excellence in the Physical Sciences - \$500

Windsor The Loomis Chaffee School Mark LeBlanc
 6091 PS 3 Comparison of Machine Learning Models for Short-Term Forecasting of Solar Power Generation Output: A Case Study
Student(s) Derek Yuan **Grade 11** **Town Branchburg**
 * Future Sustainability Awards --- High School Finalist - Medallion

Woodbridge Amity Regional High School Catherine Piscitelli
 6057 PS 1 Designing a Ground Collision Avoidance System to Inhibit Controlled Flight Into Terrain Accidents For Single Engine Aircraft
Student(s) Mason Beaudette **Grade 11** **Town Orange**
 * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
 * U.S. Air Force --- Certificate & \$25 gift card from CSEF
 * IEEE, Connecticut Section --- \$100 Honorable Mention
 * Wisner Chairman's Award --- \$500 cash & plaque HS
 * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

Woodbridge Amity Regional High School Catherine Piscitelli
 6024 PS 2 Development of a Low-Cost, Expandable Boot Aimed to Adjust to Multiple Sizes and Last Multiple Years.
Student(s) Aditi Chalasani **Grade 11** **Town Orange**
 * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
 * ASM Materials Education Foundation --- Certificate & \$25 gift card given by CSEF
 * University of Connecticut Academic Excellence Scholarship --- Academic Excellence Physical Sci. scholarship - \$7,500 /year, four academic years- (\$30,000 total)
 * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

Woodbridge Amity Regional High School Catherine Piscitelli
 6518 PST 2 Removal of Phenol from Drinking Water utilizing Food-Derived Activated Carbon (AC) Combined with Nickel (II) Oxide
Student(s) Eugene Chang **Grade 12** **Town Orange**
Jacob Silbert **Grade 12** **Town Bethany**

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

Woodbridge Amity Regional High School Catherine Piscitelli
 6506 PST 3 Determining the Trend of Nitrogen Deposition Over Time Near Lake Erie and Its Influence on Lake Eutrophication

Student(s) **Caroline Chen** **Grade 12** **Town** Orange
Christian Chen **Grade 12** **Town** Orange

Woodbridge Amity Regional High School Catherine Piscitelli
 3109 LS 3 The Effect of Genotype of DOT1L On Cell Division

Student(s) **Srilekha Kadimi** **Grade 12** **Town** Orange

Woodbridge Amity Regional High School Catherine Piscitelli
 6052 PS 3 Creating a DDoS attack mitigation system using SYN cookies to ensure access to critical election information

Student(s) **Jade Krukar** **Grade 11** **Town** Woodbridge

Woodbridge Amity Regional High School Catherine Piscitelli
 6513 PST 1 Creating an Optical Fiber Daylighting System for Hydroponics With Raspberry Pi Active Dual Axis Solar Tracking

Student(s) **Philip London** **Grade 12** **Town** Orange
Adarsh Kongani **Grade 12** **Town** Orange

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion
- * Future Sustainability Awards --- High School Finalist - Medallion

Woodbridge Amity Regional High School Catherine Piscitelli
 6025 PS 2 The Manufacture and Performance Evaluation of a Locking Container to Eliminate the Distraction of Phones While Driving

Student(s) **Scott Lowder** **Grade 11** **Town** Orange

- * American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 9-12 project
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

Woodbridge Amity Regional High School Catherine Piscitelli
 6039 PS 1 Creating a Smaller and More Portable Vertical Axis Wind Turbine to Increase Accessibility and Usage of Wind Energy Harvesting Devices

Student(s) **Brodey Lu** **Grade 11** **Town** Orange

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * American Meteorological Society --- Certificate & \$25 gift card given by CSEF
- * Constellation, an Exelon Company --- 1st: \$150.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy
- * 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.
- * MIT Club of Hartford K-12 Initiative C/O Leon Kaatz; 111 Oak Street; Hartford, CT 06106 --- For excellence in science & technology of energy related research, high school, \$100 cash award
- * Frank J. Link Family Award for Energy Related Research --- Frank J. Link Award for Energy Related Research - \$50
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

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

Woodbridge Amity Regional High School Mrs. Catherine Piscitelli
 3083 LS 2 Analyzing the Relationship Between Acceptance of Virtual Communications Mediums and Depression
 Proneness, FOMO, and Social Anxiety
Student(s) Kevin Lu **Grade** 12 **Town** Woodbridge

Woodbridge Amity Regional High School Catherine Piscitelli
 3516 LST 2 The Extent of Universal Grammar Theory in Assisting English Grammar Acquisition for Post-Puberty
 Second Language Learners
Student(s) Arnav Paliwal **Grade** 12 **Town** Woodbridge
 Andrew Kim **Grade** 12 **Town** Woodbridge

Woodbridge Amity Regional High School Catherine Piscitelli
 6510 PST 2 Creating a Platform Capable of Conveying News Article Bias
Student(s) Peter Scully **Grade** 12 **Town** Bethany
 Joshua Feuerstein **Grade** 12 **Town** Woodbridge

Woodbridge Amity Regional High School Catherine Piscitelli
 6082 PS 2 Comparison of Chemical Exposure from Face Mask Materials Before and After Washing Treatments
Student(s) Allison Su **Grade** 12 **Town** Woodbridge

Woodbridge Amity Regional High School Catherine Piscitelli
 3028 LS 2 The Biofilm Promoting Nature of Bacteriophages in In-Vitro Escherichia coli (E. coli) Biofilms
Student(s) Aiden Tischer **Grade** 11 **Town** Bethany

* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

Woodbridge Amity Regional High School Catherine Piscitelli
 6037 PS 2 Designing a Novel Social Distancing Device
Student(s) Shyam Viswanathan **Grade** 12 **Town** Woodbridge

* Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 * Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS
 Student & \$250 cash

Woodbridge Amity Regional High School Catherine Piscitelli
 6009 PS 3 Algorithm for Object Detection and Avoidance for Drone Swarming
Student(s) William Wei **Grade** 12 **Town** Orange

Woodbridge Amity Regional High School Catherine Piscitelli
 3078 LS 1 Using Deep Learning to Efficiently Quantify the Impact of Road Salt Runoff on the Swim Performance of
 Wood Frog Tadpoles
Student(s) Mason Zhang **Grade** 12 **Town** Woodbridge

* PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 * Environmental Sciences Awards with CACIWC --- 2nd Place HS- \$200, Plaque

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Woodbridge Amity Regional High School Catherine Piscitelli

3023	LS	3	Analyzing the Role of Sonic Hedgehog Signaling in Germinal Center B-cell Differentiation by Single-Cell RNA Sequencing
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Student(s) Wendy Zhang	Grade 12	Town Woodbridge
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