



Connecticut Science & Engineering Fair

Quinnipiac University

March 6 - 18, 2023

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	3126	LS	2	Discovery of novel therapeutic targets and pathways for acute kidney injury using proteomics		
Student(s) Jack Wang							Grade 11	Town Avon
Avon	Farmington Valley Academy	Bobbi Woodbury	1017	LT	3	What's in Our Water?		
Student(s) Catherine Hogan							Grade 7	Town Farmington
Student(s) Gracie Bennett							Grade 8	Town Farmington
Avon	Talcott Mountain Academy	Dr Brigette Zacharczenko	2002	L7	2	Shining light on cricket growth		
Student(s) Rand Copley							Grade 7	Town new hartford
Avon	Talcott Mountain Academy	Hannah Marye	5511	P8	1	Mitigating the Threat of Microplastics in Drinking Water: The Potential of Coconut Fiber and Activated Coconut Charcoal as Sustainable Filtration Materials		
Student(s) Rhea Doshi							Grade 8	Town Farmington
<ul style="list-style-type: none"> * Connecticut Science Fair Association Physical Science Awards --- 3rd Place- Physical Sciences 8th Grade Ind, - \$100 & trophy * Pepsico Engineering Awards --- 1st Place- Engineering Middle School- \$300 & trophy * Quinnipiac University Scholarships --- \$30,000, 4 year scholarship (\$7,500 per year) to Quinnipiac University for MS Student * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners * Society of Women Engineers - Hartford Section --- Scientific Calculator * Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100 								
Avon	Talcott Mountain Academy	Doctor Brigette Zacharczenko	2026	L7	1	What Color Light Is A Cockroach's Favorite?		
Student(s) Yveson Hsiao							Grade 7	Town Farmington
* Life Science Awards with support from Boehringer Ingelheim --- 3rd Place- Life Sciences 7th grade- \$100 & trophy								
Avon	Talcott Mountain Academy	John Pellino	2530	L8	3	Does reaction time differ based on the amount candy you eat?		
Student(s) Ilana Mezheritskiy							Grade 8	Town Avon
Avon	Talcott Mountain Academy	Dr. Brigette Zacharczenko	2513	L8	3	Natural Plant Dyes		
Student(s) Alaina Ryan							Grade 8	Town Granby

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

Avon Talcott Mountain Academy Brigette Zacharczenko

2010 L7 2 Should You Buy Grow Lights?

Student(s) Justin Xu **Grade** 7 **Town** West Hartford

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

Bethel Bethel High School Ray Turek

6046 PS 3 League of Legends Esports AI: Training a Machine Learning Model in a Dynamic Gameplay Environment from Professional Human Experience

Student(s) Mashnoov Chowdhury **Grade** 11 **Town** Bethel

* M&T Bank Mathematics Awards --- 1st Place High School- \$500 and Plaque

* University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$96,000 (\$24,000 per year)

Bethel Bethel High School Mr. Raymond Turek

3052 LS 3 How Does the Duration of Contact lens use and the Number of Times Saline Solution is Changed Affect the Amount of Lysozyme Protein Build-up on its Surface?

Student(s) Zoe Demo **Grade** 11 **Town** Bethel

Bethel Bethel High School Ray Turek

3094 LS 3 Testing Plant Communication via Plant/Non-Plant Volatile Organic Compounds (VOC) when under Herbivory stress

Student(s) Juliana Habshey **Grade** 11 **Town** Bethel

Bethel Bethel High School Mr. Turek

3006 LS 3 Using a C++ Game Engine to Create an Interactive Model of The Interactions Between Ants or Worms With Plants and the Resulting Carbon Footprint

Student(s) Samantha Schneider **Grade** 12 **Town** Bethel

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

Bethel Bethel High School Raymond Turek

3035 LS 3 Quest for Creating Sustainable and Safe Nail Extensions: The Amberization of Tree Resin, Bio-Based Polymerized Compounds, and Monomerization of Acrylic

Student(s) Simar Soni **Grade** 11 **Town** Bethel

Bethel Bethel High School Ray Turek

6072 PS 2 Robotics Collision Course Prevention

Student(s) Brendon Spies **Grade** 12 **Town** Bethel

Bethel Bethel High School Mr. Raymond Turek

3116 LS 3 The Impact of Pesticide legislation on the risk of Gastroschisis Maternal Birth Defects

Student(s) Hannah Stowell **Grade** 11 **Town** Bethel

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

Bethel Bethel High School Ray Turek
 3123 LS 2 The Relationship Between Virtual Reality Activities and the Side Effects Associated.
Student(s) Arielle Vassell **Grade 11** **Town Bethel**

Bethel Bethel Middle School Jason Maxwell
 2533 L8 1 D.E.R.M.A. (Dermatologic Equipment for Rapid Medical Analysis)
Student(s) Toshan Bhattacharya **Grade 8** **Town Bethel**

- * Life Science Awards with support from Boehringer Ingelheim --- 1st Place- Life Sciences 8th grade- \$300 & trophy
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Life Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * National Center for Inquiry Learning --- Daniel & Maggie Award for Imagination - MS \$100

Bloomfield Academy of International Studies Dr. Davis
 5515 P8 3 Humans Living on Mars by 2030
Student(s) Brooklyn-Amaya Thompson **Grade 8** **Town Bloomfield**

Bozrah Fields Memorial School Joshua Fish
 5505 P8 1 Porosity, Permeability Rates, and Water Movement Through Various Commercial Crushed Rock Sizes as it Relates to Drainage Rock in the Excavation Trade
Student(s) Leah Kozerefski **Grade 8** **Town Gilman**

- * Connecticut Science Fair Association Physical Science Awards --- 4th Place- Physical Sciences 8th Grade Ind. - trophy
- * M&T Bank Mathematics Awards --- 1st Place Middle School- \$300 and Trophy
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF
- * Connecticut College-Physics, Astronomy, & Geophysics Dept. --- Junior Award: Certificate, & teeshirt & \$25 Amazon Card from CSEF
- * Society of Women Engineers - Hartford Section --- Scientific Calculator

Bozrah Fields Memorial School Joshua Fish
 5512 P8 2 Does Air Pressure Affect How Far A Soccer Ball Travels In The Air When Kicked?
Student(s) Tyler Savoie **Grade 8** **Town Gilman**

- * M&T Bank Mathematics Awards --- 3rd Place Middle School - \$100 and Trophy
- * U.S. Air Force --- Certificate & USAF Merchandise Package
- * Demos R Us Award --- \$200 Cash Award- Clear Execution of Research- 8th Grade
- * John S. Kendall Memorial --- \$500 John S. Kendall Award for Excellence In Mechanical Engineering - First Place

Bridgeport Harding High School Dionne Cross
 6018 PS 3 The Effect of Using Indophenol to Find Out How Much Vitamin C Different Kinds of Fruit Contains
Student(s) Philip Santiago **Grade 9** **Town Bridgeport**

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

Bridgeport Bassick High School Eley Varghese
 6516 PST 3 Oil Absorption- Testing oil absorptivity and identify the material (sorbents) that is most effective for oil spills.
Student(s) Brenda Ranzha **Grade** 11 **Town** Bridgeport
 Asly Alvarado **Grade** 11 **Town** Bridgeport
 Shayla Lopez **Grade** 11 **Town** Bridgeport

Bridgeport Black Rock School Tejas Godbole
 4003 PT 1 Solar Powered Charger
Student(s) Nilah DeJesus **Grade** 8 **Town** Bridgeport
 Karina Conde **Grade** 8 **Town** Bridgeport

- * Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion
- * EnergizeCT Alternative & Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy
- * Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Constellation Energy --- 1st: \$100.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy

Bridgeport Bridgeport Aquaculture Center Kirk Shadle
 3124 LS 1 Utilizing the Nematocysts of Cassiopea xamachana as a Bioactive Antiproliferative Compound
Student(s) Grace Kistner **Grade** 12 **Town** Fairfield

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 2nd Place High School - \$300 and Plaque, Medallion
- * Otero Family Award --- The Otero Family Award; \$250 cash

Bridgeport Bridgeport Aquaculture Center Kirk Shadle
 6082 PS 2 A Novel Multi-Trophic Bio-Filter Apparatus To Remove Point Source, Anthropogenic Eutrophication From Waste Treatment Outflows
Student(s) Tyler Lilya **Grade** 12 **Town** Stratford

- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Senior High Finalist - Medallion

Bridgeport Bridgeport Aquaculture Center Kirk Shadle
 3031 LS 1 Disruption of quorum sensing processes in gram negative bacteria by blocking the AI-2 pathway.
Student(s) John Murray **Grade** 12 **Town** southport

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Senior High Finalist - Medallion

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

Bridgeport Bridgeport Aquaculture Center Kirk Shadle

6009 PS 1 Spiral Redirect of Heat Exchange Flow Through a Unique Centrifugal Baffle Coupling

Student(s) Erika Pinto **Grade** 12 **Town** Bridgeport

- * Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 5th Place High School - Plaque, Medallion
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR
- * Wisner Memorial Award --- \$ 1000 cash + Silver Bowl (\$2000 cash if a team) High School
- * The Community Foundation for Greater New Haven's Milton Fisher Awards for Innovation and Creativity --- For Excellence in Creativity and Innovation by a High School student, \$200 cash
- * Frederick Olender USC Award in Memory of G. Robert Wisner --- \$250 Cash Award for HS student in USC school

Bridgeport Bridgeport Aquaculture Center Kirk Shadle

6052 PS 1 Using Magnetic Fields to Direct Crystallization of Calcium Carbonate to Emulate the Growth of Trabeculae Post Bone Fracture

Student(s) Jonah Rosenbaum **Grade** 12 **Town** Fairfield

- * Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Senior High Finalist - Medallion
- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion

Bridgeport Central High School Guime, Jennifer

6071 PS 3 Motion-senor Robot

Student(s) Iana Campbell **Grade** 10 **Town** Bridgeport

Bridgeport Central High School Leeford Dufe

6086 PS 3 Biodegradable Cup With Thermos Technology

Student(s) Aliyah Jenkins **Grade** 9 **Town** Bridgeport

Bridgeport Central High School Mrs. Jill Vital

6509 PST 3 How does acid rain affect the production of eggs and the agricultural aspects of Jamaica?

Student(s) Aliyah Smith **Grade** 11 **Town** Bridgeport
 Kelsey Hamilton **Grade** 11 **Town** Bridgeport

Bridgeport Fairchild Wheeler Aerospace Paul Bergquist

3521 LST 3 Sunscreen Wars

Student(s) Melissa Cruz **Grade** 10 **Town** bridgeport
 Fernando Barahona **Grade** 10 **Town** bridgeport

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Bridgeport	Fairchild Wheeler Aerospace	Paul Bergquist	6501	PST	2	Formulating Lip Balm		
						Student(s) Coleen Donnelly		Grade 11 Town Bridgeport
						Victoria Castellani		Grade 11 Town Bridgeport
Bridgeport	Fairchild Wheeler Aerospace	Paul Bergquist	6508	PST	3	Oil Presence in surfactant solution		
						Student(s) Kelly Guamarriga		Grade 11 Town bridgeport
						Alejandro Rodrigues		Grade 11 Town Bridgeport
Bridgeport	Fairchild Wheeler Aerospace	Paul Bergquist	3517	LST	2	Eliminating Microorganisms		
						Student(s) Katelynnn Robinson		Grade 10 Town Trumbull
						Joshua Sanchez		Grade 10 Town Bridgeport
Bridgeport	Fairchild Wheeler Aerospace	Mr. Koekkoek	6518	PST	1	Cerebral Palsy Accessible Keyboard		
						Student(s) Paul Zint		Grade 11 Town Shelton
						Giovanni Gumbs		Grade 11 Town West Haven
* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion								
Bridgeport	Fairchild Wheeler Biotechnology	Cynthia Crudale	3044	LS	2	Therapeutic Techniques And Their Effectiveness On Intrusive Memories		
						Student(s) Ayush Puthiyavettle		Grade 12 Town Trumbull
Bridgeport	Fairchild Wheeler Biotechnology	Mr. Bouffard	3113	LS	3	Procedure For Starting Mycelium To Digest Plastics		
						Student(s) Eleanor Schwartz		Grade 9 Town Monroe
Bridgeport	Fairchild Wheeler Biotechnology	Marilyn Carolina	3121	LS	3	The Effectiveness of Chaga Mushroom Extract to Reduce Oxidative Stress in Caenorhabditis elegans.		
						Student(s) Isabella Serra		Grade 12 Town Shelton
Bridgeport	Fairchild Wheeler Information Technology	Suchith Shantharaj	6089	PS	2	Password Analyzer		
						Student(s) Kayla Spodnik		Grade 9 Town bridgeport

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

Bridgeport Fairchild Wheeler Information Technology Suchith Shantharaj
 3063 LS 3 Which Method of Sharing Information is Most Effective?
 Student(s) **Raymond Stewart** Grade 10 Town Bridgeport

Bridgeport High Horizons Magnet School Daria Collins
 4006 PT 1 Horror of Waves
 Student(s) **Kelci Keddo** Grade 8 Town Bridgeport
Benardette Kudaisi Grade 8 Town Bridgeport

- * Connecticut Science Fair Association Physical Science Awards --- 1st Place- Physical Sciences MS Team- \$150 each & trophy
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Middle School Finalist - Medallion
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

Bridgeport John Winthrop School Susan M. Beres
 4011 PT 3 Deadly Water: How do different water filters affect the purity of the filtered water?
 Student(s) **Shelly Guo** Grade 8 Town Bridgeport
Joann Escalante Grade 8 Town Bridgeport, CT

Bridgeport Multicultural Magnet School Corina Starn
 1003 LT 3 Water H2O?
 Student(s) **Victoria Morris** Grade 7 Town Bridgeport
Jhosmery Batista Grade 7 Town Bridgeport

Bridgeport Waltersville School John Cunningham
 4008 PT 2 Freezing Point Depression/Boiling Point Elevation: A Purity Indicator of Commercially Available Salts
 Student(s) **Jessalynn Ricketts** Grade 8 Town Bridgeport
Sherly Coleman Grade 8 Town Bridgeport

Brookfield Brookfield High School Barbara Kessler
 3525 LST 2 The Effects of Traditional Medicine in Qur'an and Hadith of Escherichia Coli
 Student(s) **Fatima Abdulrahman** Grade 11 Town Brookfield
Emily Smith Grade 11 Town Brookfield

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

Brookfield Brookfield High School Jonathan Neuhausel

6513	PST	1	ParkBD: A Novel Multi-Modal Deep Learning Framework for Biomarker Identification and Drug Repurposing in Parkinson's Disease
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Student(s) Shriya Jonnalagadda **Grade 11** **Town** Brookfield
 Diya Girish Kumar **Grade 11** **Town** Brookfield

- * Connecticut Science Fair Association Physical Science Awards --- 1st Place- Physical Sciences Senior High Team- \$500 (split) & Plaque
- * Infosys Foundation Computer Science Awards --- 2nd Place High School - \$300, Plaque
- * Lunch with a Patent Attorney --- Lunch with a Patent Attorney

Cheshire Cheshire High School Ms.Julie Barker

6001	PS	2	A Domestic Violence Alerting Device comprised of an Analog Sound Level Meter, OLED Display, GPS Sensor and iOS and Android Mobile App built using Flutter
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Student(s) Suchita Srinivasan **Grade 9** **Town** Cheshire

- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2023 Invention Convention, June 10

Cheshire Cheshire High School Julie Barker

3091	LS	1	Prioritizing candidate disease genes for de novo variants by integrating phenotype information with protein-protein interaction networks
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Student(s) Shangyu Xu **Grade 12** **Town** Cheshire

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

Cheshire St. Bridget School Michelle Carroll

5506	P8	1	Improving a Homemade Livestock Identification System for all Farmers
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Student(s) Avery Fowler **Grade 8** **Town** Cheshire

- * Connecticut Science Fair Association Physical Science Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & trophy
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- Middle School \$300 / trophy
- * Stanley Black & Decker Applied Technology Awards --- 2nd Place Middle School - \$200 and Plaque, Medallion
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * Lemelson Early Inventor Award --- Certificate & \$100 cash award from Lemelson Foundation
- * National Center for Inquiry Learning --- Daniel & Maggie Award for Imagination - MS \$100
- * Robert Francoeur Memorial Awards --- Creative or innovative project in engineering, computer science or mathematics by female students - \$100
- * NYUC Pony Club Equine or Animal Science Award --- \$100 Cash Award or excellence in equine studies

Cheshire St. Bridget School Michelle Carroll

5010	P7	3	Disaster Resilient Architecture: Experiments of Tower Design and Construction
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Student(s) Luke Machado **Grade 7** **Town** Hamden

- * Pepsico Engineering Awards --- 3rd Place- Engineering MS \$100 & trophy
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Otis Elevator Company --- MS Excellence Award - \$250
- * Demos R Us Award --- \$150 Cash Award-- Clear Execution of Research- 7th Grade

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Clinton	The Morgan School	Abigail Walston	6058	PS	3	Producing Electricity with Water		
					Student(s)	Davis Walker	Grade 11	Town Clinton
* EnergizeCT Alternative & Renewable Energy Awards --- 2nd Place High School - \$300 Cash and Plaque * University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Engineering, or Technology, grade 11 only \$28,000 (\$7000/year)								
Danbury	Saint Gregory the Great School	Christine Fahey	5006	P7	2	Water Works?		
					Student(s)	Shayleigh Barrett	Grade 7	Town New Milford
* Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion * EnergizeCT Alternative & Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy								
Danbury	Saint Gregory the Great School	Mrs. Fahey	2526	L8	2	How does different types of water affect tomato plant growth?		
					Student(s)	Anthony Bruno	Grade 8	Town New Fairfield
Danbury	Saint Gregory the Great School	Mrs. Fahey	2017	L7	3	Soil Stability-		
					Student(s)	Claire Calomeni	Grade 7	Town danbury
* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion * Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF								
Danbury	Saint Gregory the Great School	Mrs. Fahey	2504	L8	3	How different Genres of Music Affect Plant Growth		
					Student(s)	Cailin Fetridge	Grade 8	Town Patterson
Danbury	Saint Gregory the Great School	Mrs. Fahey	2005	L7	2	How can water be filtered in an inexpensive way?		
					Student(s)	Riley Lamp	Grade 7	Town New Fairfield
* Aquarion Water Company --- 1st. \$100.00 Cash - Grade 7-8 For Excellence in Water Quality or Environmental Management								
Danbury	Saint Gregory the Great School	Mrs. Fahey	2516	L8	1	The effect of fertilizer on hydroponic gardening.		
					Student(s)	Connor McMahon	Grade 8	Town Brookfield
* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences 8th grade - CSF Medallion								
Danbury	Saint Gregory the Great School	Mrs. Fahey	2510	L8	3	Do Different Water Types Affect Plant Growth?		
					Student(s)	Donovan Phillips	Grade 8	Town Danbury

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Danbury Saint Gregory the Great School Mrs. Fahey

2011	L7	1	effects of inhaling Peppermint aroma on reaction time					
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Student(s)	Piper Twedt	Grade 7	Town	Norwalk
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- * Life Science Awards with support from Boehringer Ingelheim --- 2nd Place- Life Sciences 7th grade- \$200 & trophy
- * Alexion Biotechnology Awards --- 4th Place Biotechnology 7th grade - trophy
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

Danbury Westside Middle School Academy Nancy Barlow

4001	PT	1	Testing the Absorbency of Different Hydrophobic Fibers with Different Oil Samples					
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Student(s)	Jasmine De Sousa	Grade 8	Town	Danbury
	Juliana Watson	Grade 8	Town	Danbury
	Ellie Moore	Grade 8	Town	Danbury

- * Connecticut Science Fair Association Physical Science Awards --- 2nd Place- Physical Sciences MS Team- \$100 each & trophy
- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- MS Finalist - CSF Medallion

Danbury Westside Middle School Academy Ms. Barlow

4004	PT	1	What is the Effect of Grass Height on Flammability?					
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Student(s)	Adriana Dickinson	Grade 8	Town	Danbury
	Emma Reda	Grade 8	Town	Danbury
	Hailey Sanchez	Grade 8	Town	Danbury

- * Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Middle School Finalist - Medallion

Danbury Westside Middle School Academy Nancy Barlow

1019	LT	1	The Benefit of the BioBroth Bubbler on Formaldehyde-Infected Air					
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Student(s)	Briti Kaur	Grade 8	Town	Danbury
	Nashla Giron	Grade 8	Town	Danbury

- * Life Science Awards with support from Boehringer Ingelheim --- 2nd Place- Life Sciences MS Team- \$100 each & trophy
- * American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 7-8 project

Danbury Westside Middle School Academy Ms. Barlow

1008	LT	2	The Effects of Different Materials on the Strength of Bioplastic					
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Student(s)	Payton Maher	Grade 8	Town	Danbury
	Ricardo Rodriguez	Grade 8	Town	danbury
	Kenric Paguay	Grade 8	Town	Danbury

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Danbury	Westside Middle School Academy	Ms.Barlow	4013	PT	2	A project to benefit all of the community, with dual-language stock market course and ML stock price predictor, focusing on the Latino and Hispanic community.		
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Student(s)	Alejandro Mayorga	Grade 8	Town	Danbury
	Matthew Guzman	Grade 8	Town	Danbury CT 06810

- * M&T Bank Mathematics Awards --- 2nd Place Middle School- \$200 and Trophy
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 2nd Place Middle School - \$200 and Trophy, Medallion
- * Infosys Foundation Computer Science Awards --- 3rd Place Middle School- \$100, Trophy
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp - \$875
- * Jon Chapitis Memorial Award --- John Chapitis Spirit of Innovation Award - MS \$100

Danbury	Westside Middle School Academy	Ms. Barlow	2518	L8	2	The Effect of Plant-Based Natural Pesticides on Tenebrio Molitors.		
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Student(s)	Christopher Mladen	Grade 8	Town	Danbury
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- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Middle School Finalist - Medallion
- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 2nd Place MS- \$200, Trophy
- * U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF

Danbury	Westside Middle School Academy	Nancy Barlow	4010	PT	1	The Benefit of an Automatic Electricity Blocking Device on Preventing Waste of Electricity		
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Student(s)	Lea Sanchez-Dubois	Grade 8	Town	Danbury
	Shatarupa Mandal	Grade 8	Town	Danbury
	Shezan Alladin	Grade 8	Town	Danbury

- * Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Middle School Finalist - Medallion
- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * EnergizeCT Future Sustainability Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- * IEEE, Connecticut Section --- \$250 Honors Award – Junior
- * Zepke Awards --- \$100 - For the Best Use of Electronic Circuitry- Middle School
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2023 Invention Convention, June 10

Danbury	Westside Middle School Academy	Nancy Barlow	4007	PT	1	Fueling a Stirling Engine From a Cold Energy Source (Ice Cubes)		
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Student(s)	Aaliyah Taft	Grade 7	Town	Danbury
	Jessica McDermott	Grade 7	Town	Danbury

- * Connecticut Science Fair Association Physical Science Awards --- 3rd Place- Physical Sciences MS Team- trophy
- * EnergizeCT Alternative & Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy

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

Danbury Westside Middle School Academy Ms. Barlow

1002	LT	1	Promoting Outdoors Safety By Altering Pregnancy Tests to Detect Urushiol
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Student(s)	Alice Tran	Grade 8	Town Danbury
	Vianca Villacres	Grade 8	Town Danbury
	Thomas Lazo	Grade 8	Town Danbury

- * Life Science Awards with support from Boehringer Ingelheim --- 3rd Place- Life Sciences MS Team- trophy
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 4th Place Middle School - Trophy, Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 7-8 project

Darien Darien High School David Lewis

3127	LS	1	Analysis of Comprehension Scores of Middle School Students Using Different Forms of Reading (Assisted Reading and Digital Texts)
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Student(s)	Lindsey Darby	Grade 12	Town Darien
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- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- * American Psychological Association --- Certificate, \$25 gift card given by CSEF

Darien Darien High School David Lewis

3038	LS	1	Utilization of Decellularized Spinach as a Vascular Perfusion System for Organoid Development
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Student(s)	Avery Horn	Grade 12	Town Darien
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- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- * Alexion Biotechnology Awards --- 2nd Place Biotechnology Senior High - \$300 & plaque

Darien Darien High School Sarthak Kanodia

3055	LS	2	Prediction of Vegetation Dynamics in Wetlands using NDVI and Climate Time-series data with an LSTM Model
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Student(s)	Anusha Narang	Grade 12	Town Darien
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- * Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF

Darien Darien High School Mr. Pratt

3078	LS	2	Extent of Coverage as a Measure to Validate the Media Contagion Theory as an Explanation of Mass Shootings
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Student(s)	Emma Quayle	Grade 12	Town Darien
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Ellington Ellington Middle School Krista Broggle

5504	P8	1	Developing and Quantifying the Strength and Reliability of Soft Robotics Tubing Attachment Methods
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Student(s)	Thomas Gerlach	Grade 8	Town Ellington
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- * Connecticut Science Fair Association Physical Science Awards --- 5th Place- Physical Sciences 8th Grade Ind. - trophy
- * Stanley Black & Decker Applied Technology Awards --- 3rd Place Middle School - \$100 and Plaque, Medallion
- * Pepsico Engineering Awards --- 2nd Place- Engineering MS- \$200 & trophy
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * Otis Elevator Company --- MS Excellence Award - \$250

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Enfield	Chiaravalle Academy	Tim Coleman	1021	LT	1	Which plant is more efficient at reducing carbon dioxide from the air, through photosynthesis?		
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Student(s)	Madeline Agrafojo	Grade 8	Town	Suffield
	Anna Burnham	Grade 8	Town	Suffield

* Life Science Awards with support from Boehringer Ingelheim --- 1st Place- Life Sciences MS Team- \$150 each & trophy
 * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
 * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

Enfield	Chiaravalle Academy	Mr. Coleman	1001	LT	3	The Self Sustaining Fish Tank		
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Student(s)	Noah Bohonowicz	Grade 7	Town	Somers
	Michael Bielanski	Grade 7	Town	Enfield
	Mason Crkanowicz	Grade 7	Town	Suffield

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

Enfield	Chiaravalle Academy	Mr. Coleman	1006	LT	2	The effect of caffeine on plants		
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Student(s)	Keenan Cieslak	Grade 7	Town	Monson
	Shiv Patel	Grade 7	Town	Longmeadow
	Beau Dugas	Grade 7	Town	Enfield

* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- MS Finalist - CSF Medallion

Enfield	Chiaravalle Academy	Tim Coman	5004	P7	3	Comparing Electrolytes in Sports Drinks		
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Student(s)	Kayla Cupillo	Grade 7	Town	Suffield
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Enfield	Chiaravalle Academy	Timothy Coleman	2007	L7	2	Determining the optimal mixture of chicken compost, or sand to grow beans.		
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Student(s)	Misha LaCroix	Grade 7	Town	Enfield
	Jayden Eldridge	Grade 7	Town	Somers

* U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF

Enfield	Chiaravalle Academy	Timothy Coleman	1011	LT	3	How Lawn Chemicals Affect Soil Biodiversity		
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Student(s)	Delphine Lamattina	Grade 8	Town	West Hartford
	Carys Wilson	Grade 8	Town	Somers
	Sabrina Plaz	Grade 8	Town	Suffield

* J.A. Augustine and H. Glista Awards --- \$100 for excellence in biology

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

Enfield Chiaravalle Academy Tim Coleman

1016 LT 1 Recycling Greywater for Plant Growth

Student(s) Delainey Pappas **Grade 8** **Town** Enfield
 Hadley Buttrey **Grade 8** **Town** Windsor Locks
 Caleb Quinby **Grade 8** **Town** Windsor

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences Middle School Team - CSF Medallion
- * EnergizeCT Future Sustainability Awards --- Middle School Finalist - Medallion
- * Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF

Enfield Chiaravalle Academy Timothy

4009 PT 3 What water filtration method can be quickly produced, requires little process, and can provide clean water for less developed countries?

Student(s) Holt Serrano **Grade 8** **Town** Somers
 John Donnelly **Grade 8** **Town** Suffield

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

Fairfield Fairfield College Preparatory School Mrs. Deborah Kiel

3023 LS 3 Algae vs Other Organisms

Student(s) David Boudreau **Grade 12** **Town** Ansonia

Fairfield Tomlinson Middle School Ryan Gleason

1012 LT 1 The effect of water from different sources in fairfield connecticut on the rate of plant growth

Student(s) Calista Gleason **Grade 8** **Town** Fairfield
 Emma Speicher **Grade 8** **Town** Fairfield

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences Middle School Team - CSF Medallion

Farmington Farmington High School Guoan Zheng

6031 PS 2 3D printed, Smart Pipette for pH Sensing

Student(s) Jiayi Liu **Grade 10** **Town** Farmington

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

Fishers Island Fishers Island School Michelle Zimmerlin

3018 LS 1 Mytilus edulis ability to control harmful algae blooms from nitrogen rich fertilizer and phosphorus rich fertilizer.

Student(s) Madeleine Hatfield **Grade 12** **Town** Mystic

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- High School \$500 / plaque
- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 2nd Place HS- \$300, Plaque
- * Aquarion Water Company --- 2nd. \$100.00 Cash - Grade 9-12 For Excellence in Water Quality or Environmental Management

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

Glastonbury Glastonbury High School Diane Pintavalle
 3015 LS 2 Understanding Algae Dominate in Benthic Attributes in San Salvador, Bahamas Using Photo Machine Learning Technology
Student(s) Arianna Susco **Grade** 12 **Town** Glastonbury

Glastonbury Glastonbury High School Ms. Diane Pintavalle
 3025 LS 3 An Analysis of the Accuracy of Pelage Characteristics as Species Identifiers of New England Cottontail Rabbits
Student(s) Anna Szydlo **Grade** 12 **Town** Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle
 3090 LS 2 THE INDIRECT EFFECTS OF PHYTOHORMONES ON THE COMPOSITION OF COMMUNITIES OF INSECTS INTERACTING WITH Quercus alba (WHITE OAK) IN THE FORESTS OF CONNECTICUT
Student(s) Kiernan Tierney **Grade** 11 **Town** Glastonbury

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

Glastonbury Glastonbury High School Diane Pintavalle
 3009 LS 3 Developing a Bone Chip
Student(s) Jade Wong **Grade** 12 **Town** Glastonbury

Greenwich Brunswick School Dana Montanez
 6506 PST 1 Comparative analysis of the most efficient, accessible, and useful gasifiable biomatter
Student(s) Thomas Armstrong **Grade** 10 **Town** Greenwich
 Eric Lorenz **Grade** 10 **Town** Greenwich

* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion
 * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 * J.A. Augustine and H. Glista Awards --- \$100 for excellence in physical sciences

Greenwich Brunswick School Dana Montanez
 3501 LST 2 Utilizing eDNA and DNA barcoding to establish a Green Crab Census in the Long Island Sound
Student(s) Connor Choy **Grade** 11 **Town** Greenwich
 Casey Quinson **Grade** 11 **Town** Port Chester

* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion

Greenwich Brunswick School Dana Montanez
 3082 LS 2 A Comparative Analysis: The Efficacy of Carbon Sequestration in Kelp v. Prairie Grass
Student(s) Cole Cline **Grade** 11 **Town** Greenwich

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

Greenwich Brunswick School Dana Montanez

3513	LST	1	Determining the relationship between sound frequencies and settlement rates in pediveliger oyster larvae to develop oyster-recruitment methods for the restoration of oyster reefs
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Student(s)	Sebastian DeAngelis	Grade 11	Town Darien
	John Morningstar	Grade 11	Town Greenwich

- * Life Science Awards with support from Boehringer Ingelheim --- 2nd Place- Life Sciences Senior High Team- \$300 (split) & Plaque
- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 3rd Place HS- \$200, Plaque
- * Connecticut Academy of Audiology --- \$200 Award - For Excellence in Audiology and Acoustics, oport. to shadow an audiologist

Greenwich Brunswick School Dana Montanez

3516	LST	1	The effects of cable bacteria on reducing methane production in microbial methanogen populations
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Student(s)	Jack Degl	Grade 10	Town Mahopac
	Henry Johnson	Grade 10	Town Greenwich

- * Life Science Awards with support from Boehringer Ingelheim --- 1st Place- Life Sciences Senior High Team- \$500 (split) & Plaque
- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion
- * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF

Greenwich Brunswick School Dana Montanez

6059	PS	2	A Comparative Analysis of the Longevity of Biochar Filters in Removing Agricultural Pollutants from Wastewater.
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Student(s)	Luke Dougherty	Grade 11	Town Bronxville
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- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion

Greenwich Brunswick School Mrs. Montanez

6011	PS	1	Development of Eco-Navigation System for Reducing Greenhouse Gas Emissions of Ships using Wind-Assisted Flettner Rotors
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Student(s)	Thomas Ewald	Grade 11	Town Greenwich
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- * Connecticut Science Fair Association Physical Science Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & Plaque
- * Stanley Black & Decker Applied Technology Awards --- 2nd Place High School - \$300 and Plaque Medallion
- * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- * MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Innovative Concept Award - \$250
- * Kathleen & David Smith Awards --- Kathleen & David Smith Award for Innovative Concept - \$100
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2023 Invention Convention, June 10

Greenwich Brunswick School Dana Montanez

3505	LST	2	Effects of Phototoxic Chemicals in Sunscreen on Reef-Building Coral
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Student(s)	Robert MacNaughton	Grade 11	Town Bronxville
	Michael Yeager	Grade 11	Town Greenwich

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

Greenwich Brunswick School Evan Ciecimirski
 3529 LST 3 Utilizing Magnesium Acetate as the Basis for Hydroponic, Structural Plant Proteins in the Absence of Light

Student(s) William Nook III **Grade** 10 **Town** Greenwich
 Jack Sieg **Grade** 10 **Town** Greenwich

Greenwich Brunswick School Dana Montanez
 3522 LST 3 Poultry-feather Derived Keratin as a Medium in Cilantro Plant Growth

Student(s) James O'Connor **Grade** 11 **Town** Rye
 Whip Gorman **Grade** 11 **Town** New Cannan

Greenwich Brunswick School Dana Montañez
 3519 LST 1 The effects of Light Pollution on the growth and health of stone corals Montipora Capricornia and Oxypora Coral.

Student(s) Grayson O'Hara **Grade** 10 **Town** Rye
 Tucker Spiess **Grade** 10 **Town** Old Greenwich

- * Life Science Awards with support from Boehringer Ingelheim --- 3rd Place - Life Sciences Senior High Team - Plaque
- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion
- * EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion
- * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF

Greenwich Brunswick School Dana Montanez
 3509 LST 3 Isolation and Purification of Plant-Based Flocculants for the Treatment of Contaminated Water

Student(s) Thomas Pope **Grade** 11 **Town** Darien
 Henry Ferguson **Grade** 11 **Town** Greenwich

Greenwich Brunswick School Dana Montanez
 3526 LST 2 The Nostoc Effect: Creating the Ultimate Biofertilizer to Mitigate Climate Change

Student(s) Gabriel Trahanas **Grade** 10 **Town** Riverside
 Ryan Ahn **Grade** 10 **Town** White Plains

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

Greenwich Brunswick School Dana Montanez
 3061 LS 2 The Effectiveness of Ultraviolet Light Sterilization on Disinfecting Hydroponic Systems

Student(s) Oliver Velasco **Grade** 10 **Town** Greenwich

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

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

Greenwich Central Middle School Andrew Bramante

2521	L8	1	Reducing Food Waste with Early, Visual Detection of Bread-Mold via BODIPY-Colorimetric Card Detection of 1-Octen-3-ol
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Student(s) Amelia Foell **Grade 8** **Town** Greenwich

- * Life Science Awards with support from Boehringer Ingelheim --- 2nd Place- Life Sciences 8th grade- \$200 & trophy
- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * U.S. Metric Association --- Certificate & \$25 gift card given by CSEF
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

Greenwich Central Middle School Andrew Bramante

5507	P8	1	Demonstrating the Persistence of Long Island Sound Polyaromatic Hydrocarbon (PAH) Contamination
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Student(s) Bridget Hadden **Grade 8** **Town** Greenwich

- * Connecticut Science Fair Association Physical Science Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & trophy
- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- Middle School- \$200 / trophy
- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- MS Finalist - CSF Medallion
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * Society of Women Engineers - Hartford Section --- Scientific Calculator

Greenwich Central Middle School Andrew J Bramante

2508	L8	2	Wavelength-Specific Illumination of Hydroponic Growth Systems, for Increased Crop Production
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Student(s) Kate Wick **Grade 8** **Town** Greenwich, CT

- * Alexion Biotechnology Awards --- 5th Place Biotechnology 8th grade- trophy
- * U.S. Metric Association --- Certificate & \$25 gift card given by CSEF
- * Connecticut Science Supervisors Association --- \$125 for a middle school project

Greenwich Eastern Middle School Andrew Bramante

2531	L8	2	Implementation of Rhizobium Nitrogen-Fixation to Increase Overall Crop Production, and Inhibit
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Student(s) Hannah Dcruz **Grade 8** **Town** Riverside/Greenwich

- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 1st Place MS - \$300, Trophy

Greenwich Eastern Middle School Andrew Bramante

2503	L8	2	Enhancement of Sleep Cycle Circadian Rhythms via the Introduction of Ambient Sounds
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Student(s) Rachel Goldenberg **Grade 8** **Town** Greenwich

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * Bushnell Center for Performing Arts --- Pair of Tickets to Monterey Jazz Festival on tour for top project that is music-related

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

Greenwich Eastern Middle School Andrew Bramante
 5510 P8 2 Does Our Desire for Convenient Spring Water Come at an Expense for Meaningful Microplastic Harm?

Student(s) Sara Rahimtula **Grade 8** **Town** Old Greenwich

- * EnergizeCT Future Sustainability Awards --- 1st Place Middle School - \$300 Cash and Trophy
- * Freeman Family Excellence in Chemistry Awards --- For Excellence in Chemistry or Chemical Engineering by a Middle School student, \$100 cash

Greenwich Eastern Middle School Andrew Bramante
 2511 L8 1 Simple, Rapid Detection of Early Maturity-Onset Diabetes of the Young (MODY) via Random-C-Peptide Biomarkers

Student(s) Lula Wang **Grade 8** **Town** OLD GREENWICH

- * Life Science Awards with support from Boehringer Ingelheim --- 3rd Place- Life Sciences 8th grade- \$100 & trophy
- * Stanley Black & Decker Applied Technology Awards --- 1st Place Middle School - \$300 and Plaque, Medallion
- * Alexion Biotechnology Awards --- 1st Place Biotechnology 8th grade - \$300 & trophy
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

Greenwich Greenwich Catholic School Mr. Timothy Koppe
 1018 LT 2 Functional Filtration

Student(s) Grace Brew **Grade 8** **Town** Greenwich
 Leah O'Meara **Grade 8** **Town** Stamford

- * EnergizeCT Future Sustainability Awards --- 3rd Place Middle School - \$100 Cash and Trophy

Greenwich Greenwich Catholic School Mr.Koppe
 1009 LT 2 5 Second Rule

Student(s) Emma Drexel **Grade 8** **Town** Stamford
 Maria Olga Athanasiadis **Grade 8** **Town** Stamford

Greenwich Greenwich Country Day School Nathan Haag
 3095 LS 3 The Use of Phages instead of Antibiotics.

Student(s) Ian Beckman **Grade 12** **Town** Greenwich

Greenwich Greenwich Country Day School Nathan Haag
 3089 LS 3 Algal Biofuel Cost and Application: A Metanalysis Of How To Implement Algae Based Fuels With Minimal Costs

Student(s) William Kearns Duran **Grade 12** **Town** Old Greenwich

Greenwich Greenwich Country Day School Dr.Haag
 3034 LS 3 The Efficacy of Yoga in Reducing Stress in Special Needs Adults

Student(s) Lola Manuel **Grade 12** **Town** Greenwich

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Greenwich	Greenwich Country Day School	Nathan Haag	6023	PS	3	Racial and Ethnic Representations of Crime in True Crime Documentaries		
					Student(s) Rebeca Manzo	Grade 12	Town Riverside	
Greenwich	Greenwich Country Day School	Dr. Nathan Haag	3042	LS	3	Brain Cognition amongst High School athletes: Basketball and Football		
					Student(s) Sebastian Matz	Grade 12	Town Larchmont	
Greenwich	Greenwich Country Day School	Nathan Haag	3122	LS	3	Does diet soda help with weight loss in young teenagers		
					Student(s) Lucas Murray	Grade 12	Town Greenwich	
* Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to Awards Night Dinner with guest								
Greenwich	Greenwich Country Day School	Dr. Haagt	3128	LS	3	Bonobo Interactions with the Ape Initiative		
					Student(s) Calder Perry	Grade 12	Town Cos Cob	
Greenwich	Greenwich Country Day School	Nathan Haag	3109	LS	3	Will statistical models find if the increase in Sea Surface Temperature has correlated with the Accumulated Cyclone Energy and Power Dissipation Index of hurricane data since 2000?		
					Student(s) Lyneth Restrepo	Grade 12	Town Bridgeport	
Greenwich	Greenwich Country Day School	Nathan Haag	3026	LS	3	The use and experiments of CRISPR/Cas-based genome editing in plants		
					Student(s) Dylan Schwartz	Grade 12	Town BEDFORD CORNERS	
Greenwich	Greenwich Country Day School	Nathan Haag	3115	LS	1	Music and the imagination: how compositional techniques used within film scores help shape the imagination		
					Student(s) Savanna Shettler	Grade 12	Town Danbury	
* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion								
Greenwich	Greenwich High School	Andrew Bramante	3129	LS	2	Creation and Simulation of Function of Claramine-Atorvastatin Coated Hyaluronic Acid Nanoparticles for Targeted Dissolution of Atherosclerotic Plaque		
					Student(s) Justin Bernstein	Grade 10	Town Greenwich	
* Pepsico Engineering Awards --- 2nd Place- Engineering Senior High- \$300 & plaque								

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Greenwich	Greenwich High School	Andrew Bramante	3111	LS	2	Delivery of Epicatechin via Bovine Serum Albumin Based Nanoparticles In order to Reduce the Growth of Escherichia Coli of Ocimum Basilicum		
			Student(s)		Mitchell Goldstein		Grade	Town
							12	Cos Cob

Greenwich	Greenwich High School	Andrew Bramante	6028	PS	2	Development of an Efficient and Easily-Applicable Low-Energy Process for the Degradation of PFAS		
			Student(s)		Zara Haque		Grade	Town
							10	Riverside

- * EnergizeCT Future Sustainability Awards --- 1st Place High School - Plaque & \$700 Stipend to Compete at GENIUS Olympiad
- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Future Sustainability

Greenwich	Greenwich High School	Andrew Bramante	6056	PS	2	Photocatalytic Degradation of Microplastics Found in Southwestern CT Drinking Water		
			Student(s)		Ava Jackson		Grade	Town
							10	Old Greenwich

Greenwich	Greenwich High School	Andrew Bramante	3079	LS	1	Footprint Reduction of PET Fiber Waste in Refuse-Environments via Non-Toxic Ideonella Sakaiensis Degradation		
			Student(s)		Lucy Li		Grade	Town
							11	Greenwich

- * Life Science Awards with support from Boehringer Ingelheim --- 4th Place- Life Sciences Senior High- Plaque
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion

Greenwich	Greenwich High School	Andrew Bramante	3099	LS	2	Eco-Friendly Removal of Eutrophication-Initiating NH4+ from Water via SAP-Enhanced, Activated Food Waste Biochar Adsorption Films		
			Student(s)		Audrey Lin		Grade	Town
							11	Riverside

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

Greenwich	Greenwich High School	Mr. Andrew Bramante	3118	LS	2	Development of a Rapid Alzheimer's Disease Diagnostic through Multilayered, Comprehensive Statistical Analyses of Speech.		
			Student(s)		Maximillian Lu		Grade	Town
							11	Riverside

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

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

Greenwich Greenwich High School Andrew Bramante

3010 LS 1 Identification of Therapeutics for Neurological Disorders through Development of a Novel Machine Learning System for Predicting Drug-Gene Interactions in the Glymphatic System

Student(s) Ashley Malkin **Grade** 10 **Town** Greenwich

- * Life Science Awards with support from Boehringer Ingelheim --- 5th Place- Life Sciences Senior High- Plaque
- * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- * Alexion Biotechnology Awards --- 3rd Place Biotechnology Senior High - \$200 & plaque

Greenwich Greenwich High School Andrew Bramante

6043 PS 2 Reversible, Tunable Metal Electrodeposition on Pt-Functionalized, Indium Tin Oxide, Transparent Electrodes for Thermal Regulating and Dynamic Optical Properties of Smart Windows

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

- * Pepsico 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
- * CT Architecture Foundation - The William M. Mack, AIA Award --- \$250 Amazon Gift Card from the Connecticut Architecture Foundation, William M. Mack, AIA Award.
- * Otis Elevator Company --- HS Excellence Award - \$250

Greenwich Greenwich High School Mr. Andrew Bramante

6008 PS 1 Concurrent Removal of Rising Soluble Ocean Carbon Dioxide and Oil-in-Water Contaminants via Multi-Functional Remediation Framework.

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

- * Connecticut Science Fair Association Physical Science Awards --- 3rd Place- Physical Sciences Senior High Individual - \$200 & Plaque
- * Stanley Black & Decker Applied Technology Awards --- 3rd Place High School - \$ 200 and Plaque, Medallion
- * EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion
- * Pepsico Engineering Awards --- 1st Place- Engineering Senior High- \$500 & plaque,
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR
- * Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition

Greenwich Greenwich High School Andrew Bramante

3056 LS 2 In-situ Biodegradation of Landfill Styrofoam Waste by Zophobas Morio via an Innovative, Compounded Diet

Student(s) Colin Reynolds **Grade** 9 **Town** Old Greenwich

- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion

Greenwich Greenwich High School Andrew Bramante

6016 PS 2 Synthesis and Investigation of Metal Organic Frameworks for the Purpose of Atmospheric Water Harvesting

Student(s) Caitlin Tice **Grade** 10 **Town** Greenwich

- * Stanley Black & Decker Applied Technology Awards --- 1st Place High School - \$500 and Plaque, Medallion
- * GENIUS Olympiad --- GENIUS Olympiad Competition for HS Environmental, Energy, Ecology, or Biodiversity Project

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

Greenwich Greenwich High School Andrew Bramante
 6022 PS 2 Use of Cryptomelane-Type Manganese Oxide Free Standing Membranes for Removal of Oil Contaminants in Water.

Student(s) Ryan Wadhwa **Grade** 9 **Town** Greenwich

- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion
- * EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion
- * U.S. Air Force --- Certificate & USAF Merchandise Package

Greenwich Greenwich High School Andrew Bramante
 3020 LS 2 A Zero-Waste Product; Pyrolytic Conversion of Walnut Shell Waste to Light-Hydrocarbon Fuels, Biopesticides, and Valuable Soil Additives

Student(s) Keira Young **Grade** 12 **Town** Cos Cob

- * Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF

Greenwich Sacred Heart Greenwich Mary Musolino
 3027 LS 3 Investigating the Role of Bilingualism in Enhancing Adolescents' Selective Attention Using Grammatical Illusions

Student(s) Martina Bernal **Grade** 12 **Town** Greenwich

Greenwich Sacred Heart Greenwich Mary Musolino
 3067 LS 2 The effect of temperatures on the CO(2) output and food consumption rate of darkling beetles; implications for migration, pest control, and climate change adaptability.

Student(s) Isobel Costello **Grade** 12 **Town** Stamford

Greenwich Sacred Heart Greenwich Mary Musolino
 6050 PS 3 Predicting a Rise in Smoking Due to the Psychological Effects of the Coronavirus Pandemic

Student(s) Claudia El-Masry **Grade** 12 **Town** Bronxville

Greenwich Sacred Heart Greenwich Mary Musolino
 3507 LST 2 Testing Mars Global Stimulant MGS-1 Enhancements including a Novel Water/Nutrient Delivery System for Growing Crops for a Mission to Mars

Student(s) Charlotte Gannon **Grade** 12 **Town** Greenwich
 Isabella Leao **Grade** 12 **Town** Greenwich
 Robin Murphy **Grade** 12 **Town** Cos Cob

- * 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

Greenwich Sacred Heart Greenwich Mary Musolino
 6026 PS 2 Using Graphene to Create a Starch-Based 3D Printed Bioplastic that is Thermally and Electrically Conductive

Student(s) Olivia Ritossa **Grade** 11 **Town** Pelham

- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Greenwich	Western Middle School	Andrew Bramante	2514	L8	3	Use of Simple, Home-Remedy Cleansers to Selectively Inhibit Harmful Bacteria on Classroom Surfaces		
					Student(s)	Amaya Khwaja-Patel	Grade 8	Town Greenwich
<ul style="list-style-type: none"> * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion * American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 7-8 project 								
Guilford	Guilford High School	Luke Rosnick	3005	LS	3	Association of COVID-19 Vaccine Booster Rates and Mortality Among Different Age Groups		
					Student(s)	Jason Li	Grade 11	Town Guilford
Guilford	Guilford High School	Kristie Whitcomb	3054	LS	3	Key Family Environmental Factors and Their Effects on Mental Health Among Youths		
					Student(s)	Devin Lu	Grade 10	Town Guilford
Guilford	Guilford High School	Kristie Whitcomb	6037	PS	2	Removing the Ocean's Noose: Designing a Ropeless Solution to the Lobster Trap		
					Student(s)	Michael Neiss	Grade 12	Town Guilford
<ul style="list-style-type: none"> * Southeastern New England Marine Educators (SEMEME) --- \$100 award and membership for student and teacher in SENEME - 1st Place Senior 								
Guilford	Guilford High School	Kristie Whitcomb	3066	LS	1	Sounds of Change: Music Therapy's Effect on Apathy in Parkinson's Disease Patients		
					Student(s)	Zachary Neiss	Grade 12	Town Guilford
<ul style="list-style-type: none"> * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion * Bushnell Center for Performing Arts --- Pair of Tickets to Broadway Show - Tina Turner Musical for top project that is behavioral or social sciences related 								
Guilford	Guilford High School	Yanjiao Zhou	3088	LS	1	The impact of gut microbiome on COVID-19 vaccination		
					Student(s)	Catherine ZHOU	Grade 10	Town GUILFORD
<ul style="list-style-type: none"> * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion 								
Hamden	Hamden Hall Country Day School	Paulomi Aldo	2019	L7	2	Do human and dog saliva have special antibacterial properties and help heal wounds?		
					Student(s)	Anna Aslan	Grade 7	Town Hamden
<ul style="list-style-type: none"> * Alexion Biotechnology Awards --- 1st Place Biotechnology 7th grade - \$300 & trophy * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners 								

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Hamden	Hamden Hall Country Day School	Dr. Patrick Fitzgerald	3097	LS	3	The Water Cycle and Environmental Bacteria Resistance to Antiseptics		
					Student(s)	Theodora Aslan	Grade 10	Town HAMDEN
* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion								
Hamden	Hamden Hall Country Day School	Frank Gasparro	6005	PS	1	Photometry and DNA-psoralen Photochemistry with a Novel LED Source		
					Student(s)	Andrei Balas	Grade 9	Town Cheshire
* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion								
Hamden	Hamden Hall Country Day School	Chris Buckley	6507	PST	3	Using Surveys to Study the Evolution of Art Generated by Artificial Intelligence		
					Student(s)	Helena Chaine	Grade 10	Town Orange
						Eric Huang	Grade 10	Town Guilford
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion								
Hamden	Hamden Hall Country Day School	Paulomi Aldo	2532	L8	3	The effect of colored lights on plant growth		
					Student(s)	Anderson de Graaf	Grade 8	Town Hamden
Hamden	Hamden Hall Country Day School	Paulomi Aldo	2522	L8	2	Blue Light Blues		
					Student(s)	Samantha Diaz	Grade 8	Town New Haven
Hamden	Hamden Hall Country Day School	Dr. Patrick Fitzgerald	3085	LS	3	The effect of storm drains on bacteria and water quality		
					Student(s)	Kaleb Fiore	Grade 9	Town Southington, CT
Hamden	Hamden Hall Country Day School	Patrick Fitzgerald	6053	PS	3	Effects of Rain Gardens on Water Quality in the Mill River		
					Student(s)	Josh Huy	Grade 11	Town Middlebury
Hamden	Hamden Hall Country Day School	Dr. Patrick Fitzgerald	3029	LS	1	Exfoliated graphite absorption of oil-based contaminants in water		
					Student(s)	Ravindu Karunaratne	Grade 9	Town Hamden
* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion								

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Hamden	Hamden Hall Country Day School	Chris Buckley	3080	LS	1	MiMe- Mindly Meditation		
			Student(s)		Neev Makin	Grade 9	Town	Hamden
* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion								
Hamden	Hamden Hall Country Day School	Paulomi Aldo	2527	L8	2	F.I.D (Fraternal, Identical, Doppelganger)		
			Student(s)		Zhanna Milani	Grade 8	Town	Wallingford
Hamden	Hamden Hall Country Day School	Paulomi Aldo	2501	L8	3	How can interacting with different species of animals have different mental affects on humans?		
			Student(s)		Landon Sassu-Martin	Grade 8	Town	Berlin
Hamden	Hamden Hall Country Day School	Paulomi Aldo	2517	L8	2	How different environmental conditions affect the growth of e-coli bacteria		
			Student(s)		Alessandra Sticca	Grade 8	Town	Milford
Hamden	Hamden Hall Country Day School	Gina DAngelo	3058	LS	3	Impact of Chitosan Polysaccharide (From Chitin) on Intestinal Health		
			Student(s)		Sophia Vash	Grade 9	Town	Fairfield CT
* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion								
Hamden	Hamden Hall Country Day School	Frank Gasparro	6042	PS	3	The Effect of Cooling on the Properties of Amorhous Solids		
			Student(s)		Andrew Yang	Grade 9	Town	Southbury
Hamden	Hamden Hall Country Day School	Paulomi Aldo	2512	L8	2	The Effect of Temperature on Trypsin Activity on the digestion of Bugs		
			Student(s)		Cooper Zebrowski	Grade 8	Town	Branford
Hamden	Hamden Hall Country Day School	Frank Gasparro	3515	LST	1	A model system for the effect of ash produced by wildfire on glacier melting		
			Student(s)		Huiwen Zeng	Grade 11	Town	Cheshire
			Student(s)		Jiahui Chen	Grade 10	Town	New Haven
* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High Team - CSF Medallion								
Hamden	Hamden Hall Country Day School	Frank Gasparro	3064	LS	3	Tactile Stimulation: Temperature and Class Engagement		
			Student(s)		Qianlin Zhou	Grade 11	Town	Hamden

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Hamden	Hamden Hall Country Day School	Stephen Listro	6014	PS	3	An Image Deblurring Model Using Artificial Intelligence		
					Student(s) Yue Zhuo	Grade 11	Town Hamden	
Hamden	Sacred Heart Academy	Doctor Wendy Decter	3087	LS	2	Presence of American Foulbrood in Beehives		
					Student(s) Sophia Carrasco	Grade 9	Town Hamden	
Hamden	Sacred Heart Academy	Dr. Wendy Decter	3037	LS	2	Do turmeric and cumin protect Daphnia's heart when it is exposed to caffeine?		
					Student(s) Lillian Cochran	Grade 9	Town New Haven	
Hamden	Sacred Heart Academy	Dr. Christophy	3081	LS	2	Is There a Correlation Between Covid-19 and Scented Candle Reviews?		
					Student(s) Julia DeFrances	Grade 10	Town Hamden	
Hamden	Sacred Heart Academy	Elizabeth Christophy	6032	PS	3	Can Heat Beat Your Speed?		
					Student(s) Camila Ferro	Grade 10	Town Hamden	
Hamden	Sacred Heart Academy	Elizabeth Christophy	3043	LS	3	Secondary Traumatic Stress Subscales in Psychiatric Nurses: A Secondary Data Analysis		
					Student(s) Rachel Harrison	Grade 10	Town MILFORD	
Hamden	Sacred Heart Academy	Wendy Decter	3070	LS	2	Electromagnetic Radiation: The Invisible Infiltrator		
					Student(s) Divya Sankar	Grade 9	Town Naugatuck	
Hamden	Sacred Heart Academy	Dr.Decter	3059	LS	2	What insulation is the best		
					Student(s) Gianna Tullo	Grade 10	Town East Haven	
Hartford	A.I. Prince Technical High School	Sarah Wilby	6006	PS	2	Thermacork Shelters		
					Student(s) Meranyelis Negron-Figueroa	Grade 11	Town Hartford	

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

* University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Engineering, or Technology, grade 11 only\$28,000 (\$7,000/year)

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Hartford A.I. Prince Technical High School Sarah Wilby

6511	PST	3	Bibby Socks - heating your feet with the power of your steps					
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Student(s)	Essence Telford	Grade 11	Town	New London
	Brandon Sanchez	Grade 11	Town	Hartford
	Camille Edmondson	Grade 11	Town	Hartford

- * EnergizeCT Alternative & Renewable Energy Awards --- High School Finalist - Medallion
- * Constellation Energy --- 1st: \$150.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy

Hartford Environmental Sciences Magnet School Rebecca Hays

2506	L8	2	How does the application of granular sodium chloride and liquid magnesium chloride before and during winter weather events affect the quality of nearby bodies of water?					
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Student(s)	Elizabeth D'Agostino	Grade 8	Town	New Britain
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- * Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- Middle Schools- \$100 / trophy
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 5th Place Middle School - Trophy, Medallion
- * National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF
- * Southeastern New England Marine Educators (SENEME) --- \$100 award and membership for student and teacher in SENEME - 1st Place Junior
- * Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash

Hartford Renzulli Academy Foifon Teawdatwan

5508	P8	3	Experiment Vital					
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Student(s)	Elisha Adeniran	Grade 8	Town	New Britain
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Hartford Renzulli Academy Foifon Teawdatwan

4005	PT	3	Robot Strength					
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Student(s)	Litish Deepa	Grade 7	Town	Hartford
	Sameer Shirzai	Grade 7	Town	Hartford
	Ericson Grullon	Grade 7	Town	hartford

Kent Kent School Jesse Klingebiel

6024	PS	2	Caterpillar Bot (Modular All-Terrain Rover)					
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Student(s)	Xiaonian Feng	Grade 11	Town	Marlborough, MA
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Kent Kent School Jesse Klingebiel

3045	LS	1	Cell type-specific expression of the molecular players in mouse prefrontal cortex during cocaine addiction					
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Student(s)	Eric Teng	Grade 11	Town	San Marino
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- * Life Science Awards with support from Boehringer Ingelheim --- 2nd Place- Life Sciences Senior High- \$300 & Plaque
- * Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF

Lakeville The Hotchkiss School Aireza Soltani

3030	LS	2	The Effects of Caffeine on Adolescents' Academic Concentration, Anxiety, and Performance					
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Student(s)	Aiden Wang	Grade 10	Town	Hillsborough
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[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Lakeville	The Hotchkiss School	Richard Kirby	6049	PS	2	Assisting Carbon Neutralization: Automated Energy-saving Controller for Household Appliances		
Student(s)			Da Zhuo (Alejandro) Zheng Zhou		Grade	11	Town	Lakeville

* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion

Litchfield	Wamogo Regional High School	Fred Jaquin	6041	PS	1	Measuring Our Place in the Solar System:		
Student(s)			Ryan Emanuel		Grade	10	Town	Morris

* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
 * M&T Bank Mathematics Awards --- 2nd Place High School- \$300 and Plaque
 * 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

Manchester	Manchester High School	Jeffrey Labasi	3019	LS	1	The Isolation And Identification Of Polystrene Degrading Bacteria From Zophobas Morio		
Student(s)			Paris Bazemore		Grade	12	Town	manchester

* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
 * Alexion Biotechnology Awards --- 4th Place Biotechnology Senior High - plaque
 * Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition

Manchester	Manchester High School	Wendy Turek-Hernandez	3077	LS	2	Short-term Guided Mindfulness Meditation Compared with a Placebo Stress Supplement in Acute Stress		
Student(s)			Natalie Christopher		Grade	12	Town	Manchester

Manchester	Manchester High School	Wendy Turek-Hernandez	6039	PS	3	Biodiesel optimization of the washing process		
Student(s)			Sean Sourinho		Grade	12	Town	Manchester

Manchester	Manchester High School	Wendy Turek-Hernandez	3013	LS	2	Spectrophotometric Determination of the Total Polysaccharide Content of Ganoderma Lucidum Grown Under Different Conditions.		
Student(s)			Sylvia Squatrito		Grade	12	Town	Manchester

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

Manchester	St. James School	Ellen Oei	1013	LT	2	Amazing Ants.		
Student(s)			Noah Gendreau		Grade	7	Town	Lebanon
			Dylan Ghezzi		Grade	7	Town	Manchester

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

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Manchester	St. James School	Ellen Oei	5005	P7	1	Which Rock is more Porous?		
Student(s) Nick Grace					Grade 7	Town Manchester		
<ul style="list-style-type: none"> * Connecticut Science Fair Association Physical Science Awards --- 2nd Place- Physical Sciences 7th Grade Ind. - \$200 & trophy * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners * Geology/Historic Project of Merit Award --- \$50 - Earth Science - Field work with Geologic or historic value MS 								
Manchester	St. James School	Ellen Oei	2021	L7	3	Brush Your Teeth		
Student(s) Matthew Taylor					Grade 7	Town Columbia		
Meriden	H.C. Wilcox Technical High School	Charles Rolle	6517	PST	2	Insulation Temperature Control		
Student(s) Chase Casner					Grade 11	Town Cheshire		
Krystian Colbert					Grade 11	Town Southington		
Angel Suarez					Grade 11	Town New Britain		
Meriden	H.C. Wilcox Technical High School	Charles Rolle	6510	PST	2	Energy Efficient Apartment		
Student(s) David Hardy					Grade 10	Town Wallingford		
Connor Wright					Grade 10	Town Meriden		
Ethan McMahon					Grade 10	Town Southington		
* EnergizeCT Alternative & Renewable Energy Awards --- 3rd Place High School - \$200 Cash and Plaque								
Middletown	Xavier High School	David Applegate	3012	LS	3	The Effects of Electrical Currents in Plant Growth		
Student(s) Benjamin Akaratovic					Grade 10	Town Wethersfield		
Milford	Harborside Middle School	Independent	2004	L7	3	Finding the most effective solutions to kill germs and bacteria on door knobs using natural substances (lemon juice, cold/hot/room temperature tap water, saltwater).		
Student(s) Sahithi Alla					Grade 7	Town Milford		
* Alexion Biotechnology Awards --- 5th Place Biotechnology 7th grade - trophy								
Milford	Harborside Middle School	Independent	2523	L8	2	Affect of 3 solutions(Tap water, Salt water, Sugar water) on plants in Natural light Vs. Artificial light as it relates to plant growth.		
Student(s) Sathvik Alla					Grade 8	Town Milford		

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

Milford Platt Technical High School Sara Bruno

3508 LST 3 Urban Hub Revitalization Project

Student(s) Ashley Ramos **Grade** 12 **Town** Bridgeport
 Bruno Valdivia **Grade** 12 **Town** West Haven
 Katelyn Zayas **Grade** 12 **Town** New Haven

- * EnergizeCT Technical High School Science & Technology Awards --- 1st Place- Technical High School, Plaque & Stipend to Compete at GENIUS Olympiad
- * CT Architecture Foundation - The William M. Mack, AIA Award --- \$250 Amazon Gift Card from the Connecticut Architecture Foundation, William M. Mack, AIA Award.
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place Technical High School

New Haven Engineering and Science University Magnet School Alyssa Anderson

2519 L8 3 The Effect of Sugar on Yeast Fermentation

Student(s) Titiladeoluwa Adeniran **Grade** 8 **Town** Seymour

New Haven Engineering and Science University Magnet School Alyssa Anderson

3503 LST 3 The Effect of a Calcium Chloride Solution on the Coagulation of Sodium Alginate for the Implementation in Cultures of Cyanobacteria

Student(s) Temiladeoluwa Adeniran **Grade** 10 **Town** Seymour
 Mari Arnold **Grade** 10 **Town** Stratford

- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Senior High Finalist - Medallion

New Haven Engineering and Science University Magnet School Roger Rushworth

2509 L8 1 Investigating The Effectiveness Of Biochar In Remediating Soil Contamination by Heavy Metals and Hydrocarbons.

Student(s) Sahithi Aliminate **Grade** 8 **Town** Milford

- * Life Science Awards with support from Boehringer Ingelheim --- 5th Place- Life Sciences 8th grade- trophy
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 3rd Place Middle School - \$100 and Trophy, Medallion
- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 3rd Place MS- \$100, Trophy
- * Alexion Biotechnology Awards --- 4th Place Biotechnology 8th grade- trophy

New Haven Engineering and Science University Magnet School Roger Rushworth

3073 LS 2 Assessing the Effectiveness of Different Flocculants on Algal and Agricultural Contamination in an Acidifying Ocean

Student(s) Saket Aliminate **Grade** 9 **Town** Milford

- * Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition
- * Connecticut Science Supervisors Association --- \$125 for a high school project

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

New Haven Engineering and Science University Magnet School Roger Rushworth

6079	PS	1	An Analysis of the Efficient Blockage of RFID Readers Based on the Thickness, Distance, and Density of Each RFID Reader Obstruction Material
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Student(s) Nivrith Ananth Iyer **Grade 9** **Town** West Haven

- * Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Senior High Finalist - Medallion
- * Connecticut College-Physics, Astronomy, & Geophysics Dept. --- Senior Award: Certificate, & teeshirt & \$25 Amazon Card from CSEF

New Haven Engineering and Science University Magnet School Mr. Roger Rushworth

6038	PS	2	Which Type of Rocket Oxidizer Can Combine with a Solid-Propellant Rocket Fuel in Order to Produce a High Output, Height, Distance, and Time?
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Student(s) Parth Gokhale **Grade 9** **Town** Milford

New Haven Engineering and Science University Magnet School Roger Rushworth

2534	L8	1	Design and Implementation of a Novel Machine-Learning-Based System Utilizing Feature Extraction for Precise Cervical Cancer Detection via Biopsy Sample
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Student(s) Ethan Joseph **Grade 8** **Town** West Haven

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences 8th grade - CSF Medallion
- * Pfizer Computational Biology and Bioinformatics Awards --- 1st Place Middle School - \$300, Trophy
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 1st Place Middle School - \$300 and Trophy, Medallion
- * Infosys Foundation Computer Science Awards --- 1st Place Middle School - \$300, Trophy
- * 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
- * Alexion Biotechnology Awards --- 2nd Place Biotechnology 8th grade - \$200 & trophy
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * The Community Foundation for Greater New Haven's Milton Fisher Awards for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash
- * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 8th grader - GENIUS Olympiad Competition with stipend (421)
- * GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2023 Invention Convention, June 10

New Haven Engineering and Science University Magnet School Ms. Alyssa Anderson

3016	LS	2	Investigating the Usage of Treated Nano-Clay Composites for the Efficient Removal of Emerging Contaminants in an Aqueous Solution
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Student(s) Snigtha Mohanraj **Grade 10** **Town** Ansonia

- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 4th Place High School - Plaque, Medallion
- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion
- * Aquarion Water Company --- 1st, \$150.00 Cash - Grade 9-12 For Excellence in Water Quality or Environmental Management
- * The Community Foundation for Greater New Haven Ecology, Environmental, and Alternative Energy Research Prize --- Urban Public School Environmental / Energy Award - \$500

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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New Haven	Engineering and Science University Magnet School	Roger Rushworth	2502	L8	2	The Effect of Ocean Acidification on Coral Reef Growth		
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Student(s)	Adithi Variar	Grade	8	Town	Wallingford
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- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF
- * Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt & cap, First Place Junior

New Haven	Sound School	Charles Mulligan	3520	LST	1	Potential role of proximity to creek source water on population dynamics of Eastern Oyster (Crassostrea Virginica)		
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Student(s)	Emma Bigman	Grade	10	Town	Middlebury
	Sofia Roberts	Grade	10	Town	Branford

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High Team - CSF Medallion
- * National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF

New Haven	Sound School	Chuck Mulligan	3511	LST	3	Potential Impact of Heavy Rain Events on Coastal Bacterial Populations: Modeling Human Impact in Close Proximity to Wastewater Treatment Facilities		
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Student(s)	Cora FitzGerald	Grade	10	Town	Guilford
	Britney Xochipitecatl Cuahtepitzi	Grade	10	Town	New Haven

- * EnergizeCT Future Sustainability Awards --- 2nd Place High School - \$300 Cash and Plaque
- * GENIUS Olympiad --- GENIUS Olympiad Competition for HS Environmental, Energy, Ecology, or Biodiversity Project

New Haven	Sound School	Chuck Mulligan	6033	PS	3	Potential Role of High Rainfall Events on Localized River Flow		
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Student(s)	Tamzin Maines	Grade	10	Town	Old Saybrook
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New Haven	Sound School	Charles Mulligan	3504	LST	3	Potential Impacts from Anthropogenic Influences on Phenotypic Plasticity of Juvenile Horseshoe Crabs (Limulus polyphemus): Implications for Survivorship		
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Student(s)	Gabriella Spata	Grade	12	Town	New Haven
	Ruby Blustajn	Grade	12	Town	Hamden

New Milford	Canterbury School	Andrew John Smith	6013	PS	3	The Diversity of Cichlid Fishes		
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Student(s)	Yuntong Chu	Grade	11	Town	New Milford
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Newtown	Newtown High School	Timothy DeJulio	3011	LS	3	The Role of Hepatic Stellate Cells in Liver Regeneration		
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Student(s)	Kaylin Brisette	Grade	9	Town	Sandy Hook
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[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Newtown	Newtown High School	Timothy DeJulio	6045	PS	3	Ping Pong Robot		
Student(s) Aiden Burbank							Grade 11	Town Sandy Hook
Newtown	Newtown High School	Timothy DeJulio	3107	LS	3	Transmissible Spongiform Encephalopathies: A Possible Treatment		
Student(s) Beatrice Cardamone							Grade 10	Town Sandy Hook
Newtown	Newtown High School	Timothy DeJulio	6054	PS	3	Development of Soft Robotic Arms Which Mimic Biological Systems and Structures		
Student(s) Maura Daly							Grade 12	Town Sandy Hook
Newtown	Newtown High School	Timothy DeJulio	3041	LS	3	Analysis of previous and current CRISPR-based treatments for Huntington's disease with the goal of developing a new treatment		
Student(s) Annabelle Foley							Grade 10	Town Sandy Hook
Newtown	Newtown High School	Timothy DeJulio	6004	PS	3	The MacroEnvironment		
Student(s) Filippo Formica							Grade 12	Town Sandy Hook
Newtown	Newtown High School	Timothy DeJulio	6075	PS	2	AI Based Skin Cancer Detection System		
Student(s) Aadit Jerfy							Grade 10	Town Newtown
Newtown	Newtown High School	Timothy DeJulio	6010	PS	2	Line Follower Car		
Student(s) Emily Li							Grade 10	Town Newtown
* Dreams Unlimited Award --- \$150 cash award and certificate								
Newtown	Newtown High School	Timothy DeJulio	3101	LS	1	The Effect of Placebos and Nocebos on Pain Perception		
Student(s) Anna White							Grade 12	Town Sandy Hook
* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion								

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Norwich	Norwich Technical High School	Kaminski/Pelloni	3527	LST	3	Sustainably Providing Vegetables in Accordance to Overpopulation		
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Student(s)	Emerson Alexy	Grade 11	Town Old Saybrook
	Kelvin Lam	Grade 11	Town Norwich

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

Norwich	Norwich Technical High School	Tiffani Kaminski	3506	LST	3	Using Zeolite Clinopitilite to Reduce Methane Emissions From Food Waste		
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Student(s)	Morgan Cook	Grade 11	Town Higganum
	Sydney Brown	Grade 11	Town Uncasville

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

Norwich	Norwich Technical High School	Mrs. Kaminiski	3523	LST	2	Environmental Friendly Methods for Deicing Roads		
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Student(s)	Keyonna Hayes	Grade 11	Town Uncasville
	Aliyah Mayo	Grade 11	Town Lisbon

* EnergizeCT Technical High School Science & Technology Awards --- 3rd Place- Technical High School , \$200, Plaque

Norwich	Norwich Technical High School	Tiffani Kaminski Deangelis	3502	LST	2	Inserting pET21b(+) Gene from Ideonella sakaiensis into Vibrio natriegens for Potentially Enviornmentaly Friendly Polyethylene Terephthalate Plastic Biodegradation.		
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Student(s)	Elijah Smith	Grade 11	Town Norwich
	Jack Barnett	Grade 11	Town Colchester

Norwich	Norwich Technical High School	Tiffani Kaminski	3514	LST	3	How Agricultural Runoff Affects The Oceans Blodiversity		
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Student(s)	Beverly Valle	Grade 11	Town Montville
	Grace Fuchs	Grade 11	Town Montville

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

Norwich	Norwich Technical High School	Tiffani Kaminski	3518	LST	3	An Easy System to Filter Water and Improve Plant Growth		
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Student(s)	Deijanai Vergara	Grade 11	Town Norwich
	Julia Dexter	Grade 11	Town Waterford
	Emily Lopez	Grade 11	Town New London

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Pawcatuck	St. Michael School	Mrs Grossomanides	5003	P7	1	Four Fab Fats		
			Student(s)		Connor Anderson	Grade 7	Town	Pawcatuck
* Connecticut Science Fair Association Physical Science Awards --- 3rd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy								
Pawcatuck	St. Michael School	Anna Helene Grossomanides	2023	L7	3	Impact of Contaminants of Emerging Concern on Bean Seed Germination and Growth		
			Student(s)		Addison Cadmus	Grade 7	Town	Pawcatuck
* Alexion Biotechnology Awards --- 2nd Place Biotechnology 7th grade - \$200 & trophy								
* Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash								
Pawcatuck	St. Michael School	Anna-Helene Grossomanides	2524	L8	2	Conservation of the Monarch Butterfly		
			Student(s)		Gianna Giovanelli	Grade 8	Town	Westerly, RI
Pawcatuck	St. Michael School	Anna-Helene Grossomanides	5503	P8	3	Do Fans Actually Cool You Off?		
			Student(s)		Gianna Kennedy	Grade 8	Town	Pawcatuck
Pawcatuck	St. Michael School	Mrs.Grossomanides	2016	L7	3	Aquatic Plants in Action		
			Student(s)		Sarah Previty	Grade 7	Town	Pawcatuck
Pomfret	Pomfret School	Joshua Lake	6015	PS	3	Research on sound generation through mechanical design for pedestrian safety during low-speed driving		
			Student(s)		Yuna Cho	Grade 10	Town	Pomfret
* Connecticut Academy of Audiology --- \$200 Award - For Excellence in Audiology and Acoustics, oport. to shadow an audiologist								
Pomfret	Pomfret School	Joshua Lake	3049	LS	1	Detection and Remediation of War Polluted Soil Using Deep Learning Robot and Soil Remediating Bioplastic (BioCore)		
			Student(s)		Yuree Oh	Grade 11	Town	Seoul
* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion								
* Infosys Foundation Computer Science Awards --- 1st Place High School - \$500, Plaque								
* National Geographic That's Geography! - Cultivating Empathy for the Earth Award --- Certificate & \$100 Cash from Society for Science								

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Pomfret	Pomfret School	Bill Martin	3062	LS	2	Sustainable Agriculture at Your Finger Tips		
Student(s) Zhoutong Qi							Grade 11	Town Wellesley
Redding	CT STEM Fair	Catherine Piscitelli	3104	LS	2	Determining the Availability of Telehealth Consults for Musculoskeletal Surgical Patients with Differing Insurance Plans		
Student(s) Anchal Bahel							Grade 12	Town Woodbridge
Redding	CT STEM Fair	Catherine Piscitelli	3110	LS	1	Determining the Effects of Prolonged Starvation on the Survival, Growth, and Development of Lymantria dispar		
Student(s) Sabrina Osowiecki							Grade 10	Town Redding
* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion								
* Banning Family Life Science Award --- For excellence in invasive species research, \$100 cash								
Redding	CT STEM Fair	Catherine Piscitelli	3119	LS	2	Analyzing the distribution of insertion, deletion, and substitution mutations in the gene encoding the Spike protein of COVID		
Student(s) Jasir Zafar							Grade 10	Town Orange
Ridgefield	Ridgefield High School	Patrick Hughes	3102	LS	2	The effect of robotic architecture on the perception of trustability in social robots		
Student(s) Alyson Barczak							Grade 12	Town Ridgefield
Ridgefield	Ridgefield High School	Patrick Hughes	6065	PS	3	Is the Initial Therapy Better to be Done Online or In-Person?		
Student(s) Maya Chauhan							Grade 12	Town Ridgefield
Ridgefield	Ridgefield High School	Patrick Hughes	3021	LS	2	Analyzing the impact of COVID-19 on the amount of happiness found in nature		
Student(s) Molly Crist							Grade 12	Town Ridgefield
Ridgefield	Ridgefield High School	Patrick Hughes	3512	LST	3	The Effect of Exercise on the Mood of Adolescents: A Survey of High School Athletes		
Student(s) Isabella Crowley							Grade 12	Town Ridgefield
Regan McGrath							Grade 12	Town Ridgefield

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Ridgefield	Ridgefield High School	Mr. Hughes	6078	PS	3	Comparing Lipid Nanoparticle Delivery with Electroporation for Crispr Delivery		
					Student(s) Cora Fitzgerald	Grade 12	Town Ridgefield	
Ridgefield	Ridgefield High School	Ryan Gleason	6060	PS	2	Analysis of the Free Floating and Companion (Both Transiting and Non-Transiting) Brown Dwarf Populations		
					Student(s) Nathan Gaynor	Grade 12	Town Ridgefield	
Ridgefield	Ridgefield High School	Patrick Hughes	3036	LS	2	Assessing the Impact of Synthetic Sweeteners on Hunger Perception in Drosophila Melanogaster		
					Student(s) Aditi Gupta	Grade 12	Town Ridgefield	
* Institute of Food Technologists, Nutmeg Section --- \$150 award + invitation to Awards Night Dinner with guest								
Ridgefield	Ridgefield High School	Patrick Hughes	3076	LS	2	Assessing grid and curvilinear neighborhood layouts for their impact on wildfire damage		
					Student(s) Charlotte Kemp	Grade 12	Town RIDGEFIELD	
* American Society of Safety Professionals, CT Valley Chapter --- \$200 grade 9-12 project								
Ridgefield	Ridgefield High School	Ryan Gleason	3096	LS	3	The Effect of Pet Allergens on Asthma		
					Student(s) Emma Levine	Grade 12	Town Ridgefield	
Ridgefield	Ridgefield High School	Mr. Hughes	3014	LS	2	Examining the Characteristics of Residual Pancreatic Cells and Islets in Type 1 Diabetes		
					Student(s) Kavya Podila	Grade 12	Town Ridgefield	
Ridgefield	Ridgefield High School	Ryan Gleason	3117	LS	3	What are the effects of heavy metals seen in tattoo inks on the human body		
					Student(s) Maya Rubio	Grade 12	Town Ridgefield	
Ridgefield	Ridgefield High School	Patrick Hughes	3008	LS	2	How the Intensity of an Exercise Affects Cell-Mediated Immunity Through the Release of Anti-Inflammatory Cytokines		
					Student(s) Gurshaan Sandhu	Grade 11	Town Ridgefield	
Ridgefield	Ridgefield High School	Aine Kapell	3053	LS	2	The Efficacy of Varying Sound Frequencies on Accelerating Colony Formation and Zymolytic Properties of Saccharomyces cerevisiae		
					Student(s) Samantha Verdejo	Grade 12	Town Ridgefield	

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

Ridgefield Ridgefield High School Patrick Hughes
 6083 PS 3 Engineering a Methodology and Database to Efficiently and Effectively Discover and Classify Micrometeorites

Student(s) Heather Wallace **Grade** 12 **Town** Ridgefield

* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
 * Geology/Historic Project of Merit Award --- \$50 - Earth Science - Field work with Geologic or historic value HS

Ridgefield Ridgefield High School Mr. Hughes
 3028 LS 3 Analysis of Contributing Factors to Overdose Death Variabilities within U.S. States from 2015 to 2022 and Cost-Benefit Calculation of Drug Overdose Prevention Programs

Student(s) Hannah Yu **Grade** 11 **Town** Ridgefield

Rocky Hill Rocky Hill High School Dr. Parker
 6514 PST 2 Evaluating the Potential Impacts of Commonly Used Mosquito Repellents on Water Systems: DEET, Picaridin, IR-3535, Permethrin, and Oil of Lemon Eucalyptus.

Student(s) Swapnil Roy **Grade** 12 **Town** Rocky Hill
 Kristian Odobashi **Grade** 11 **Town** Rocky Hill
 Ved Bathula **Grade** 11 **Town** Rocky Hill

Shelton Shelton Intermediate School Erica Napoli
 2015 L7 3 The Eggstastic Egg Experiment

Student(s) Mallory Bohrer **Grade** 7 **Town** Shelton

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

Shelton Shelton Intermediate School Erica Napoli
 2008 L7 2 Color VS Memory

Student(s) Ava Hamlin **Grade** 7 **Town** Shelton

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

Shelton Shelton Intermediate School Dr. Erica Napoli
 2003 L7 1 The Fingerprint Powder Experiment

Student(s) Gabriella Kuniej **Grade** 7 **Town** Shelton

* Life Science Awards with support from Boehringer Ingelheim --- 4th Place- Life Sciences 7th grade- trophy

South Windsor South Windsor High School Patti Stamper
 6519 PST 1 Using organic dyes for a more economical approach to a Dye Sensitized Solar Cell

Student(s) Pranay Kakkar **Grade** 10 **Town** South Windsor
 Adithya Anand **Grade** 10 **Town** South Windsor

* Connecticut Science Fair Association Physical Science Awards --- 3rd Place - Physical Sciences Senior High Team - Plaque
 * MIT Club of Hartford K-12 Initiative --- 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

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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South Windsor	South Windsor High School	Dr David Kimel	6012	PS	3	Challenging the AMC10: An Examination of its Increasing Difficulty		
			Student(s)		Aarush Kalia	Grade 10		Town SOUTH WINDSOR

South Windsor	South Windsor High School	Independent	6088	PS	1	Predicting Solar Storms and Coronal Mass Ejections (CMEs) using novel Attention based Deep Learning algorithms		
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Student(s) Pragyan Yadav **Grade 11** **Town** South Windsor

* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion

* University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$96,000 (\$24,000 per year)

Southington	Southington High School	Mr. Destefano	3112	LS	3	Can galleria mellonella larvae be utilized to decompose plastics faster?		
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Student(s) Zeynep Agirman **Grade 11** **Town** Southington

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

Stamford	Bi-Cultural Hebrew Academy	Chris Graseck	2014	L7	3	Effects on Radish Seeds with Acidified Water		
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Student(s) Emma Gordon **Grade 7** **Town** Stamford

Stamford	Bi-Cultural Hebrew Academy	Christopher Graseck	2022	L7	2	How Do Different Colors of Light Affect Plant Growth		
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Student(s) Keren Roitman **Grade 7** **Town** Stamford

Stamford	King School	Dr. Victoria Schulman	6027	PS	2	American Sign Language (ASL) Resin Printed Prosthetic Hand		
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Student(s) Nicole Guido **Grade 11** **Town** Greenwich

Stamford	King School	Victoria Schulman	6036	PS	1	Environmental Remediation via Photocatalysis for Partial Methane Oxidation and Oil Photodegradation		
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Student(s) Antonia Kolb **Grade 11** **Town** New Canaan

* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion

* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion

* Freeman Family Excellence in Chemistry Awards --- For Excellence in Chemistry or Chemical Engineering by a High School student, \$200 cash

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

Stamford King School Victoria Schulman

6021	PS	2	The use of NMR to identify the LOD in mixtures of organic compounds to efficiently produce environmentally friendly biomass polymers & reduce energy loss from wasted plastic
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Student(s) Gouri Krishnan **Grade** 12 **Town** Darien

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

Stamford King School Victoria Schulman

3075	LS	1	High G/C Content at the 3' End of the Spacer of Prime Editing Guide RNAs Results in Increased Editing Efficiencies
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Student(s) Benjamin Persily **Grade** 12 **Town** Scarsdale

* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

Stamford King School Victoria Schulman

3048	LS	1	Knockdown of the essential 23S rRNA methyltransferase, rv3579c, increases the susceptibility of Mycobacterium tuberculosis to macrolides
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Student(s) Yuriy Sandmeier **Grade** 12 **Town** New Rochelle

- * Life Science Awards with support from Boehringer Ingelheim --- 1st Place- Life Sciences Senior High- \$500 & Plaque
- * 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 --- 5th Place Biotechnology Senior High - plaque
- * Regeneron Biomedical Science Award --- Certificate & \$375.00 cash
- * Biophysical Society --- Biophysics Award- \$100

Stamford King School Victoria Schulman

3068	LS	2	Determining the Pigmentation of Overexpressed BAP1 on 92.1 GFP Cell Lines to Predict Prognosis.
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Student(s) Layla Shah **Grade** 11 **Town** wilton

Stamford King School Victoria Schulman

6087	PS	2	Designing a Simulation for Aerothermodynamic Performance of Transatmospheric Vehicles and Ablative Heat Shield Designs for Space Exploration and Missile Defense Reentry
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Student(s) Ryan Wempen **Grade** 11 **Town** Stamford

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

Stamford Westhill High School Mr Chandan Sarkar

6066	PS	1	Investigating the application of statistical word analysis to automatically select controls from the NIST Risk Management Framework
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Student(s) Rohan Sahu **Grade** 11 **Town** Stamford

- * Connecticut Science Fair Association Physical Science Awards --- 5th Place- Physical Sciences Senior High Individual - Plaque
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 3rd Place High School - \$ 200 and Plaque, Medallion

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

Stamford Bi-Cultural Hebrew Academy Chris Graseck
 1007 LT 3 How Microplastics Effect Daphnia magna

Student(s) Zoe Wirgin **Grade 7** **Town** Stamford
 Molly Wirgin **Grade 7** **Town** Stamford

* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- MS Finalist - CSF Medallion

Storrs E. O. Smith High School Cheryl Granger
 6040 PS 2 Multi Temporal Analysis of Beaver Activity in Connecticut Forests Using Aerial Imagery

Student(s) Hiruni Witharana **Grade 9** **Town** Storrs Mansfield

* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 1st Place HS - Plaque and \$700 Stipend to Compete at GENIUS Olympiad
 * The Goodwin-Niering Center for the Environment --- \$100 for "Excellence in Environmental Conservation Studies"
 * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Environmental Project

Stratford St. Mark School Alexander Kennedy
 2006 L7 1 The Stroop Effect

Student(s) Julianne Gonzalez **Grade 7** **Town** Stratford

* Life Science Awards with support from Boehringer Ingelheim --- 1st Place- Life Sciences 7th grade- \$300 & trophy
 * American Psychological Association --- Certificate, \$25 gift card given by CSEF
 * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

Stratford St. Mark School Alexander Kennedy
 1005 LT 2 Does Personality Affect Memory

Student(s) Avani Jacobs **Grade 8** **Town** stratford
 Miranda Abreu **Grade 8** **Town** Stratford

Stratford St. Mark School Mr. Kennedy
 1010 LT 3 How Different Liquids Affect the Growth of Plants

Student(s) Sofia Pagano **Grade 7** **Town** Stratford
 Sara Gnoza **Grade 7** **Town** Stratford

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

Suffield Suffield Academy Raven Huang
 6068 PS 2 Research on the Equation of the Magnetic Field Caused by Magnets

Student(s) Jiaxuan Su **Grade 11** **Town** Suffield

* M&T Bank Mathematics Awards --- 3rd Place High School - \$200 and Plaque

Suffield Suffield High School Melanie Brown
 3098 LS 3 The Impacts of the Permanent Implementation of Daylight Savings Time in Connecticut.

Student(s) Emma Conway **Grade 11** **Town** Suffield

* American Society of Safety Professionals, CT Valley Chapter --- \$200 grade 9-12 project

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Suffield	Suffield High School	Melanie Brown	6505	PST	3	Alternative Fuel Sources for Commercial Jetliners to Combat Climate Change		
Student(s)					Christopher Crozier	Grade 11	Town	Suffield
					Luca Matejek	Grade 11	Town	Suffield

Suffield	Suffield Middle School	Melanie Brown	4012	PT	2	Technical and Economic Feasibility of Photovoltaic Window Shades		
Student(s)					Shaunak Ukidwe	Grade 8	Town	Suffield
					Arnav Ukidwe	Grade 8	Town	Suffield

- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * Constellation Energy --- 2nd: \$50.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
- * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, middle 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 2023 Invention Convention, June 10

Trumbull	Christian Heritage School	daniel cote	3047	LS	2	The Effect of Metal Salts and Chelation on the Catalase Activity in Alzheimer's Disease		
Student(s)					Sofia Khan	Grade 11	Town	stratford

Trumbull	Christian Heritage School	Dr. Daniel Cote	6080	PS	3	Designing a Device to Charge a Cellphone Using Energy Created by a Bicycle for Underdeveloped Areas		
Student(s)					Abigail Nagel	Grade 11	Town	Trumbull

- * EnergizeCT Alternative & Renewable Energy Awards --- 1st Place High School - \$500 Cash and Plaque
- * EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion
- * J.A. Augustine and H. Glista Awards --- \$100 H. Glista Award for physical sciences

Trumbull	Christian Heritage School	Nicole Blaskewicz	5502	P8	1	How Ice vs. No Ice Affects a Stirling Engine		
Student(s)					Charles Orban	Grade 8	Town	Norwalk

- * Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- * Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * John S. Kendall Memorial --- \$300 John S. Kendall Award for Excellence In Mechanical Engineering - Second Place
- * Susan and Stanley Lessoff Memorial --- Susan and StanleyLessoff Memorial Award - \$250 Cash and Plaque MS

Trumbull	Christian Heritage School	Ms. Blaskewicz	5509	P8	3	Solar Storms and Magnetometers: What is a solar storm, and how do magnetometers contribute to society today?		
Student(s)					Grace Rowe	Grade 8	Town	Trumbull

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

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Trumbull	Trumbull High School	William Heher	3057	LS	3	The Effect of Calcium Received on the Growth of Green Beans in Hydroponics		
Student(s) Kaitlyn Allen							Grade 12	Town Trumbull

Trumbull	Trumbull High School	Steffanie Elkins	3114	LS	2	Which Genre of Music Promotes Brain Plasticity the Best?		
Student(s) Nandhan Aditya Anandha Kumar							Grade 12	Town Trumbull

Trumbull	Trumbull High School	Steffanie Elkins	3065	LS	2	The Effect of Differing Concentrations of Chlorine Ions on the Growth and Eating Habits of <i>Dionaea muscipula</i>		
Student(s) Freud-Williams Maignan							Grade 12	Town Trumbull

Trumbull	Trumbull High School	Steffanie Elkins	3022	LS	3	The Effect of Different Concentrations of Caffeine on Acidophilic and Alkaliphilic Plants		
Student(s) Shivashankar Subramanian							Grade 12	Town Trumbull

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

Wallingford	Choate Rosemary Hall	John Gadoua	6030	PS	3	Effect of Atmospheric conditions on the Power output of Solar Panel		
Student(s) Seokhyun Chin							Grade 10	Town Wallingford

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

Wallingford	Choate Rosemary Hall	Joseph Scanio	3046	LS	3	Effect of microbiota inoculants on novel bioplastic degradation: a comparative study on backyard and commercially compostable bioplastics		
Student(s) Rebecca Denhart							Grade 12	Town Durham

* Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- High School- \$200 / plaque

Wallingford	Choate Rosemary Hall	Jan Cook	6076	PS	2	Theoretical Investigation of Sodium Ion Adsorption on N-rich Graphene as a High-Rate Anode for Sodium-Ion Batteries		
Student(s) Henry Ding							Grade 11	Town Irvine

* Pepsico 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

[SchTown] [School] [Teacher]
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Wallingford Choate Rosemary Hall Jan Cook

3007 LS 1 Development of Buoyant, Lignin-Based Fulvic Acid Supply Device (FASD) to Prevent Ocean Desertification

Student(s) Yoon Ha Lee **Grade 11** **Town Seoul**

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion
- * U.S. Metric Association --- Certificate & \$25 gift card given by CSEF
- * Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition
- * Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF

Wallingford Choate Rosemary Hall Jan Cook

3083 LS 3 Investigating Stress Response Genes in C. elegans to Prevent Huntington's Disease

Student(s) Claire Liu **Grade 11** **Town Wallingford**

Wallingford Choate Rosemary Hall Yingxin Gao

3072 LS 1 Using Machine Learning to Forecast Progression from Mild Cognitive Impairment to Alzheimer's Disease

Student(s) Ann Song **Grade 10** **Town Farmington**

- * Life Science Awards with support from Boehringer Ingelheim --- 3rd Place- Life Sciences Senior High- \$200 & Plaque

Wallingford Choate Rosemary Hall Jan Cook

3040 LS 1 TopoCan: A Novel Histopathological System for Clinical Prediction with Topology- and Spatial Genome-Informed Deep Learning

Student(s) Isabella Wu **Grade 11** **Town Wallingford**

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- * Pfizer Computational Biology and Bioinformatics Awards --- 3rd Place High School - \$200, Plaque
- * Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF

Wallingford Choate Rosemary Hall Jan Cook

6055 PS 2 The application of fractal in machine learning

Student(s) Danny Yoon **Grade 11** **Town Glenview**

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Wallingford Choate Rosemary Hall Jan Cook

6064	PS	1	A Self-Stabilizing Haptic Accessibility Mouse for Parkinson's Disease Sufferers					
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Student(s) Jingyuan Zhang **Grade** 10 **Town** Wallingford

- * Connecticut Science Fair Association Physical Science Awards --- 1st Place - Physical Sciences Senior High Individual - \$500 & Plaque
- * Pepsico Engineering Awards --- 3rd Place- Engineering Senior High- \$200 & plaque
- * Quinnipiac University Scholarships --- \$30,000, 4 year scholarship (\$7,500 per year) to Quinnipiac University for HS Student
- * 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
- * Alexion Biotechnology Awards --- 1st Place Biotechnology Senior High - \$500 & plaque
- * MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Applied Principles Award - \$250
- * IEEE, Connecticut Section --- \$250 Honors Award – Senior
- * Zepke Awards --- \$125 - For the Best Use of Electronic Circuitry- Senior High

Wallingford Choate Rosemary Hall Christopher Hogue

6069	PS	3	Probing Neural Networks for Visio-Linguistic Feature Binding					
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Student(s) Minzhi Zhang **Grade** 11 **Town** Wallingford

- * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software, gift packs, & T-shirt - For Excellence in Mathematics

Washington The Frederick Gunn School Morgen Fisher

6084	PS	2	Water Quality Inspection Catamaran					
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Student(s) Chengyue Zhang **Grade** 11 **Town** Shanghai

- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion

Waterbury ACES at Chase Anne Pember

2013	L7	3	Removing Sodium Nitrate from run off water					
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Student(s) Joel Brooks **Grade** 7 **Town** Naugatuck

- * EnergizeCT Future Sustainability Awards --- Middle School Finalist - Medallion
- * Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF

Waterbury ACES at Chase Anne Pember

5513	P8	3	The Design and Experimentation of Creating a Cold Pack Out of Household Items					
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Student(s) Brock Dauber-Katz **Grade** 8 **Town** Thomaston

- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2023 Invention Convention, June 10

Waterbury ACES at Chase Anne Pember

5001	P7	1	Streaky Windows Experiment					
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Student(s) Andrew Daukas **Grade** 7 **Town** Middlebury

- * Connecticut Science Fair Association Physical Science Awards --- 1st Place- Physical Sciences 7th Grade Ind. - \$300 & trophy
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

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

Waterbury ACES at Chase Anne Pember
 2515 L8 3 Growing a Plant from Food Waste
Student(s) Victoria DiMatteo **Grade 8** **Town** Naugatuck

Waterbury ACES at Chase Anne Pember
 5501 P8 2 The experimentation and design of all purpose cleaners
Student(s) Andrew Freer **Grade 8** **Town** Thomaston

Waterbury ACES at Chase Anne Pember
 2529 L8 2 Bioutilization of Italian Rye Grass to remove oily pollutants from soil
Student(s) Yesenia Galicia Herrera **Grade 8** **Town** Meriden

Waterbury ACES at Chase Anne Pember
 2025 L7 3 Apple Preservation (Organic vs Non Organic)
Student(s) Kenlee LaFlamme **Grade 7** **Town** Watertown

Waterbury ACES at Chase Anne Pember
 5011 P7 3 Reducing the Waste of Footballs
Student(s) Christian Simoes **Grade 7** **Town** Watertown

Waterbury ACES at Chase Lisa Debany
 1020 LT 1 Strontium Aluminate Begonia
Student(s) Isaiah Smith **Grade 8** **Town** Meriden
 Sharon Olabisi **Grade 8** **Town** Meriden
 Nevaeh Alfonso **Grade 8** **Town** Prospect

* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences Middle School Team - CSF Medallion

Waterbury ACES at Chase Anne Pember
 2505 L8 3 The Effect of Lysozyme on the Spoilage of Food
Student(s) Charles Tscheppe **Grade 8** **Town** Oakville

Watertown Taft School Davi Maximo
 6062 PS 3 Quantitative inequalities for the maximum curvature of planar curves
Student(s) Michael Ren **Grade 11** **Town** Watertown

West Hartford Renbrook School Howard Wright
 2024 L7 1 Is Your Bottled Water Really Worth It?
Student(s) Nicolas Waldron **Grade 7** **Town** West Hartford

* Life Science Awards with support from Boehringer Ingelheim --- 5rd Place- Life Sciences 7th grade- trophy

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

Westbrook Westbrook High School Mr. Zebrowski

6047 PS 2 Linear Particle Accelerator

Student(s) Enzo Adorno **Grade** 12 **Town** Westbrook

- * Pepsico 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
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificate

Westport Greens Farms Academy Mathieu Freeman

3071 LS 2 The Antibacterial Effect of Apple Cider Vinegar on Staphylococcus and on the Human Epidermal Microbiome.

Student(s) Anna Moss **Grade** 11 **Town** Fairfield

Westport Greens Farms Academy Mathieu Freeman

3060 LS 3 The Effects of Family Dynamics on an Individual's Suicide Risk Behaviors and General Mental Health

Student(s) Hannah Portman **Grade** 12 **Town** Westport

Westport Greens Farms Academy Juli Gerdes

3084 LS 2 The Effects of Nitric Ozide, Ozone, Herbicides, and Vitamin D on Alzheimer's Induced Drosophila Melanogaster

Student(s) Laci Raveis **Grade** 12 **Town** Fairfield

Wilton Middlebrook School Jessica Garcia

2520 L8 2 Pancreatic Cancer Treatment

Student(s) Megan Dragunat **Grade** 8 **Town** Wilton

Wilton Middlebrook School Kendra Norman

5002 P7 2 BlindSight

Student(s) Arav Gupta **Grade** 7 **Town** Wilton

- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- * IEEE, Connecticut Section --- \$100 Honorable Mention

Wilton Middlebrook School Debbie Mallozzi

5514 P8 2 Classifying Lenticular Galaxies with the help of a Convolutional Neural Network

Student(s) Ishanvi Jaiswal **Grade** 8 **Town** Wilton

- * Infosys Foundation Computer Science Awards --- 2nd Place Middle School - \$200, Trophy

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Wilton	Middlebrook School	Paige Randall	2020	L7	1	The Power of Your Produce!		
					Student(s) Nadia Khan	Grade 7	Town Wilton	
<ul style="list-style-type: none"> * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences 7th grade - CSF Medallion * Alexion Biotechnology Awards --- 3rd Place Biotechnology 7th grade - \$100 & trophy 								
Wilton	Middlebrook School	Jessica Garcia	5517	P8	2	Identifying Skin Lesions with Artificial Intelligence		
					Student(s) Leonardo Kulon	Grade 8	Town Wilton	
<ul style="list-style-type: none"> * American Society of Safety Professionals, CT Valley Chapter --- \$200 grade 7-8 project 								
Wilton	Middlebrook School	Kelly DePiano	2525	L8	1	Preventing Hypoxia using Magnetism		
					Student(s) Anshika Saagi	Grade 8	Town Wilton	
<ul style="list-style-type: none"> * Life Science Awards with support from Boehringer Ingelheim --- 4th Place- Life Sciences 8th grade- trophy * Alexion Biotechnology Awards --- 3rd Place Biotechnology 8th grade - \$100 & trophy * Aquarion Water Company --- 2nd. \$50.00 Cash - Grade 7-8 For Excellence in Water Quality or Environmental Management 								
Wilton	Middlebrook School	Ms. Kelly Depiano	5516	P8	2	How to See Beyond What the Eye Can See (How to build a Microscope to see objects smaller than 1 micrometer in size)		
					Student(s) Angela Varghese	Grade 8	Town Wilton	
<ul style="list-style-type: none"> * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion * Robert Francoeur Memorial Awards --- Creative or innovative project in engineering, computer science or mathematics by female students - \$100 								
Windsor	Academy of Aerospace and Engineering	Michelle Bellinger	3024	LS	1	Non-Invasive Pre-screening Approach for Early Detection of The Human Papillomavirus (HPV) to Aid in Cervical Cancer Prevention in Underrepresented Demographics		
					Student(s) Ana-Lois Davis	Grade 11	Town Broad Brook	
<ul style="list-style-type: none"> * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion * Pfizer Computational Biology and Bioinformatics Awards --- 1st Place High School - \$500, Plaque * The Jackson Laboratory with Connecticut Academy of Science and Engineering 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 --- Urban School Challenge Senior Division, 1st - \$1,000, Award of Excellence, Invite to CASE Annual Mtg * University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Science or Mathematics, grade 11 only \$28,000 (\$7,000/year) * Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100 								
Windsor	Academy of Aerospace and Engineering	Dr. Aramli	3086	LS	3	Hybridization of Tropaeolum nanum & Tropaeolum lobbianum		
					Student(s) Elijah Delgado	Grade 11	Town Hartford	

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

Windsor Academy of Aerospace and Engineering Michelle Bellinger
 6051 PS 2 Testing Model Rocket Propulsion Methods
Student(s) Abby Neal **Grade** 11 **Town** Somers

Windsor Academy of Aerospace and Engineering Michelle Bellinger
 6512 PST 1 Harvesting Energy from the Wind by Combining Piezoelectrics and Turbines.
Student(s) Ronak Ramesh **Grade** 11 **Town** Middletown
 Aarush Singh **Grade** 11 **Town** South Windsor

- * Connecticut Science Fair Association Physical Science Awards --- 2nd Place- Physical Sciences Senior High Team- \$300(split) & Plaque
- * EnergizeCT Alternative & Renewable Energy Awards --- High School Finalist - Medallion
- * EnergizeCT Future Sustainability Awards --- 3rd Place High School - \$200 Cash and Plaque
- * Constellation Energy --- 2nd: \$100.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy
- * Connecticut Association of Physics Teachers --- \$100 Senior project
- * Jon Chapitis Memorial Award --- John Chapitis Spirit of Innovation Award - HS \$200

Windsor Madina Academy Ms. Sana
 6057 PS 3 A Perpetually Flying Plane
Student(s) Hamza Alsaleh **Grade** 9 **Town** Windsor Locks

Windsor Madina Academy Mrs.Sana Farooqi
 6063 PS 1 Investigating the effect of dimpled and tubercled geometries in conjunction on the drag and lift of airfoils.
Student(s) Tasneem Zoghlo **Grade** 10 **Town** Enfield

- * Connecticut Science Fair Association Physical Science Awards --- 4th Place- Physical Sciences Senior High Individual - Plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place High School \$300 / plaque
- * U.S. Air Force --- Certificate & USAF Merchandise Paskage
- * American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate
- * Vanderbilt Chemicals, LLC --- \$150 Vanderbilt Chemicals Award for Excellence in Tribology and Sustainable Lubrication
- * University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Frontiers in Science - Co-Op \$100 Gift Certificate
- * Arthur & Ruth Mensing Award --- Mensing Award Excellence in the High School Physical Sciences - \$500

Windsor The Loomis Chaffee School Koby Osei-Mensah
 6003 PS 1 Improving Photoelectric Conversion Efficiency of the Solar Cell with Silica-Based-Aerogel-Coated Surface
Student(s) Yan Che **Grade** 11 **Town** Shanghai

- * Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Susan and Stanley Lessoff Memorial --- Susan and StanleyLessoff Memorial Award - \$250 Cash and Plaque HS

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Windsor The Loomis Chaffee School Koby Osei-Mensah
 3002 LS 1 Classify Liver cancer using Uncertainty-aware CNN

Student(s) Qiwu Jiang **Grade 11** **Town** Windsor

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- * Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- * University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Science or Mathematics, grade 11 only \$28,000 (\$7,000/year)

Windsor The Loomis Chaffee School Koby Osei-Mensah
 3106 LS 3 A Quantitative Study of Social Determinants of Health as Predictors of Covid-19 Case Rates and Mortality Rates to Emphasize Medical and Social Disparities in the United States

Student(s) Zarin Rizvi **Grade 11** **Town** Glastonbury

Woodbridge Amity Regional High School Catherine Piscitelli
 3108 LS 3 Determining an Ideal Surgical Treatment of Distal Femur Fractures in Osteoporotic Elderly Based on Finite Element Analysis of Different Plate and Screw Scenarios

Student(s) Aaron Babajanyan **Grade 12** **Town** Woodbridge

Woodbridge Amity Regional High School Catherine Piscitelli
 6002 PS 2 Research and Development of an Autonomous Drone to Provide Security for Schools and Businesses using Computer Vision and Ardupilot Firmware

Student(s) Edgar Babajanyan **Grade 12** **Town** Woodbridge

Woodbridge Amity Regional High School Catherine Piscitelli
 3093 LS 3 Effects of Increased Rainfall on Permafrost Stability and Methane Emissions in Eastern Canada to the Next Century

Student(s) Vishwa Balamurugan **Grade 11** **Town** Orange

Woodbridge Amity Regional High School Catherine Piscitelli
 6085 PS 1 Refining a Novel Pediatric Bionic Ankle Through Empirical Testing and Integration of an Intelligent Fluidic Joint Control Architecture

Student(s) Aditi Bhattamishra **Grade 11** **Town** Orange

- * Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Yale Science & Engineering Association, Inc. --- 1 Certificate, Medallion and 1- \$25 gift card given by CSEF
- * IEEE, Connecticut Section --- \$100 Honorable Mention

Woodbridge Amity Regional High School Catherine Piscitelli
 6061 PS 2 Creating and Testing a Novel Drone Swarm Mapping and Surveillance Algorithm

Student(s) Francis Cavallaro **Grade 12** **Town** Orange

- * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- * U.S. Air Force --- Certificate & USAF Merchandise Package
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * Otis Elevator Company --- HS Excellence Award - \$250.

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

Woodbridge Amity Regional High School Catherine Piscitelli
 6077 PS 2 Developing a Machine-Learning Based Algorithm to Identify and Predict Alzheimer's Disease from Clinical Notes

Student(s) Haseeb Chaudhry **Grade** 11 **Town** Orange

- * Pfizer Computational Biology and Bioinformatics Awards --- 2nd Place High School - \$300, Plaque
- * University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$96,000 (\$24,000 per year)

Woodbridge Amity Regional High School Catherine Piscitelli
 3100 LS 2 Developing a machine learning model to preoperatively evaluate patient outcomes for complex orthopedic fractures

Student(s) Suhail Irshad **Grade** 11 **Town** Orange

- * M&T Bank Mathematics Awards --- High School Finalist - Medallion
- * Infosys Foundation Computer Science Awards --- 3rd Place High School- \$200, Plaque

Woodbridge Amity Regional High School Catherine Piscitelli
 6007 PS 2 Determining the Forces Received During Multiple Head Impacts in High school American Football Players

Student(s) Matthew Li **Grade** 12 **Town** Orange

Woodbridge Amity Regional High School Catherine Piscitelli
 3032 LS 3 Using Bioinformatic Analyses to Identify Key Differences Between the Gene Expression of Normal Cells and Rheumatoid Arthritis Cells

Student(s) Daniel Liu **Grade** 12 **Town** Woodbridge

Woodbridge Amity Regional High School Catherine Piscitelli
 3074 LS 1 In Vivo Imaging of Structural Connectivity and Synaptic Density in Alzheimer's Disease

Student(s) Melinda Lu **Grade** 12 **Town** Woodbridge

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

Woodbridge Amity Regional High School Catherine Piscitelli
 6070 PS 2 Development of an Autonomous Device that uses Heart Rate and Vibrational Pulses to Reduce Stress

Student(s) Sheehan Munim **Grade** 12 **Town** Orange

- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * American Psychological Association --- Certificate, \$25 gift card given by CSEF

Woodbridge Amity Regional High School Catherine Piscitelli
 6017 PS 2 Optimizing Reinforcement Learning Using Dynamic Environment Manipulation to More Efficiently Train Autonomous Navigation AI

Student(s) Aarav Patel **Grade** 11 **Town** Orange

- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$96,000 (\$24,000 per year)
- * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software, , gift packs, & T-shirt - For Excellence in Mathematics

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Woodbridge	Amity Regional High School	Catherine Piscitelli	6034	PS	2	Designing and Optimizing a More Efficient and Inexpensive Optical Component for Thermal Cameras		
			Student(s)		Anthony Sharonov	Grade 12		Town Bethany

Woodbridge	Amity Regional High School	Catherine Piscitelli	6025	PS	2	Modeling Subcortical-Cortical Interactions During Reward-Based Decision Making Using a Hierarchical Temporal Memory Artificial Neural Network		
			Student(s)		Annika Yun	Grade 11		Town Orange

* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion

* Wisner Chairman's Award --- \$500 cash & Plaque HS

Woodbridge	Amity Regional High School	Catherine Piscitelli	3069	LS	1	Determining the Impact of Certain DNA Repair Function Loss on the Antibiotic Resistance and Persistence Development of E.coli Following Treatment With DNA Topoisomerase Inhibitors		
			Student(s)		Annie Zhan	Grade 12		Town Bethany

* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion