



# 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		
<b>Student(s)</b> Jack Wang							<b>Grade</b> 11	<b>Town</b> Avon
Avon	Farmington Valley Academy	Bobbi Woodbury	1017	LT	3	What's in Our Water?		
<b>Student(s)</b> Catherine Hogan							<b>Grade</b> 7	<b>Town</b> Farmington
<b>Student(s)</b> Gracie Bennett							<b>Grade</b> 8	<b>Town</b> Farmington
Avon	Talcott Mountain Academy	Dr Brigette Zacharczenko	2002	L7	2	Shining light on cricket growth		
<b>Student(s)</b> Rand Copley							<b>Grade</b> 7	<b>Town</b> 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		
<b>Student(s)</b> Rhea Doshi							<b>Grade</b> 8	<b>Town</b> Farmington
<ul style="list-style-type: none"> <li>* Connecticut Science Fair Association Physical Science Awards --- 3rd Place- Physical Sciences 8th Grade Ind, - \$100 &amp; trophy</li> <li>* Pepsico Engineering Awards --- 1st Place- Engineering Middle School- \$300 &amp; trophy</li> <li>* Quinnipiac University Scholarships --- \$30,000, 4 year scholarship (\$7,500 per year) to Quinnipiac University for MS Student</li> <li>* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners</li> <li>* Society of Women Engineers - Hartford Section --- Scientific Calculator</li> <li>* Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100</li> </ul>								
Avon	Talcott Mountain Academy	Doctor Brigette Zacharczenko	2026	L7	1	What Color Light Is A Cockroach's Favorite?		
<b>Student(s)</b> Yveson Hsiao							<b>Grade</b> 7	<b>Town</b> 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?		
<b>Student(s)</b> Ilana Mezheritskiy							<b>Grade</b> 8	<b>Town</b> Avon
Avon	Talcott Mountain Academy	Dr. Brigette Zacharczenko	2513	L8	3	Natural Plant Dyes		
<b>Student(s)</b> Alaina Ryan							<b>Grade</b> 8	<b>Town</b> 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)
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**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.					
<b>Student(s)</b>			<b>Brenda Ranzha</b>			<b>Grade 11</b>		<b>Town</b> Bridgeport
			<b>Asly Alvarado</b>			<b>Grade 11</b>		<b>Town</b> Bridgeport
			<b>Shayla Lopez</b>			<b>Grade 11</b>		<b>Town</b> Bridgeport

**Bridgeport** Black Rock School Tejas Godbole

4003	PT	1	Solar Powered Charger					
<b>Student(s)</b>			<b>Nilah DeJesus</b>			<b>Grade 8</b>		<b>Town</b> Bridgeport
			<b>Karina Conde</b>			<b>Grade 8</b>		<b>Town</b> 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					
<b>Student(s)</b>			<b>Grace Kistner</b>			<b>Grade 12</b>		<b>Town</b> 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					
<b>Student(s)</b>			<b>Tyler Lilya</b>			<b>Grade 12</b>		<b>Town</b> 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.					
<b>Student(s)</b>			<b>John Murray</b>			<b>Grade 12</b>		<b>Town</b> 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		
						<b>Student(s) Coleen Donnelly</b>	<b>Grade 11</b>	<b>Town Bridgeport</b>
						<b>Victoria Castellani</b>	<b>Grade 11</b>	<b>Town Bridgeport</b>
Bridgeport	Fairchild Wheeler Aerospace	Paul Bergquist	6508	PST	3	Oil Presence in surfactant solution		
						<b>Student(s) Kelly Guamarriga</b>	<b>Grade 11</b>	<b>Town bridgeport</b>
						<b>Alejandro Rodrigues</b>	<b>Grade 11</b>	<b>Town Bridgeport</b>
Bridgeport	Fairchild Wheeler Aerospace	Paul Bergquist	3517	LST	2	Eliminating Microorganisms		
						<b>Student(s) Katelynnn Robinson</b>	<b>Grade 10</b>	<b>Town Trumbull</b>
						<b>Joshua Sanchez</b>	<b>Grade 10</b>	<b>Town Bridgeport</b>
Bridgeport	Fairchild Wheeler Aerospace	Mr. Koekkoek	6518	PST	1	Cerebral Palsy Accessible Keyboard		
						<b>Student(s) Paul Zint</b>	<b>Grade 11</b>	<b>Town Shelton</b>
						<b>Giovanni Gumbs</b>	<b>Grade 11</b>	<b>Town West Haven</b>
* 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		
						<b>Student(s) Ayush Puthiyavettle</b>	<b>Grade 12</b>	<b>Town Trumbull</b>
Bridgeport	Fairchild Wheeler Biotechnology	Mr. Bouffard	3113	LS	3	Procedure For Starting Mycelium To Digest Plastics		
						<b>Student(s) Eleanor Schwartz</b>	<b>Grade 9</b>	<b>Town Monroe</b>
Bridgeport	Fairchild Wheeler Biotechnology	Marilyn Carolina	3121	LS	3	The Effectiveness of Chaga Mushroom Extract to Reduce Oxidative Stress in Caenorhabditis elegans.		
						<b>Student(s) Isabella Serra</b>	<b>Grade 12</b>	<b>Town Shelton</b>
Bridgeport	Fairchild Wheeler Information Technology	Suchith Shantharaj	6089	PS	2	Password Analyzer		
						<b>Student(s) Kayla Spodnik</b>	<b>Grade 9</b>	<b>Town bridgeport</b>

[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

- \* 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

**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)
<b>Clinton</b>	The Morgan School	Abigail Walston	6058	PS	3	Producing Electricity with Water		
					<b>Student(s)</b>	<b>Davis Walker</b>	<b>Grade 11</b>	<b>Town</b> 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)								
<b>Danbury</b>	Saint Gregory the Great School	Christine Fahey	5006	P7	2	Water Works?		
					<b>Student(s)</b>	<b>Shayleigh Barrett</b>	<b>Grade 7</b>	<b>Town</b> 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								
<b>Danbury</b>	Saint Gregory the Great School	Mrs. Fahey	2526	L8	2	How does different types of water affect tomato plant growth?		
					<b>Student(s)</b>	<b>Anthony Bruno</b>	<b>Grade 8</b>	<b>Town</b> New Fairfield
<b>Danbury</b>	Saint Gregory the Great School	Mrs. Fahey	2017	L7	3	Soil Stability-		
					<b>Student(s)</b>	<b>Claire Calomeni</b>	<b>Grade 7</b>	<b>Town</b> danbury
* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion * Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF								
<b>Danbury</b>	Saint Gregory the Great School	Mrs. Fahey	2504	L8	3	How different Genres of Music Affect Plant Growth		
					<b>Student(s)</b>	<b>Cailin Fetridge</b>	<b>Grade 8</b>	<b>Town</b> Patterson
<b>Danbury</b>	Saint Gregory the Great School	Mrs. Fahey	2005	L7	2	How can water be filtered in an inexpensive way?		
					<b>Student(s)</b>	<b>Riley Lamp</b>	<b>Grade 7</b>	<b>Town</b> New Fairfield
* Aquarion Water Company --- 1st. \$100.00 Cash - Grade 7-8 For Excellence in Water Quality or Environmental Management								
<b>Danbury</b>	Saint Gregory the Great School	Mrs. Fahey	2516	L8	1	The effect of fertilizer on hydroponic gardening.		
					<b>Student(s)</b>	<b>Connor McMahon</b>	<b>Grade 8</b>	<b>Town</b> Brookfield
* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences 8th grade - CSF Medallion								
<b>Danbury</b>	Saint Gregory the Great School	Mrs. Fahey	2510	L8	3	Do Different Water Types Affect Plant Growth?		
					<b>Student(s)</b>	<b>Donovan Phillips</b>	<b>Grade 8</b>	<b>Town</b> 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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<b>Student(s)</b>	<b>Piper Twedt</b>	<b>Grade 7</b>	<b>Town</b>	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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<b>Student(s)</b>	<b>Jasmine De Sousa</b>	<b>Grade 8</b>	<b>Town</b>	Danbury
	<b>Juliana Watson</b>	<b>Grade 8</b>	<b>Town</b>	Danbury
	<b>Ellie Moore</b>	<b>Grade 8</b>	<b>Town</b>	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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<b>Student(s)</b>	<b>Adriana Dickinson</b>	<b>Grade 8</b>	<b>Town</b>	Danbury
	<b>Emma Reda</b>	<b>Grade 8</b>	<b>Town</b>	Danbury
	<b>Hailey Sanchez</b>	<b>Grade 8</b>	<b>Town</b>	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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<b>Student(s)</b>	<b>Briti Kaur</b>	<b>Grade 8</b>	<b>Town</b>	Danbury
	<b>Nashla Giron</b>	<b>Grade 8</b>	<b>Town</b>	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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<b>Student(s)</b>	<b>Payton Maher</b>	<b>Grade 8</b>	<b>Town</b>	Danbury
	<b>Ricardo Rodriguez</b>	<b>Grade 8</b>	<b>Town</b>	danbury
	<b>Kenric Paguay</b>	<b>Grade 8</b>	<b>Town</b>	Danbury

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>Danbury</b>	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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<b>Student(s)</b>	<b>Alejandro Mayorga</b>	<b>Grade 8</b>	<b>Town</b>	Danbury
	<b>Matthew Guzman</b>	<b>Grade 8</b>	<b>Town</b>	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

<b>Danbury</b>	Westside Middle School Academy	Ms. Barlow	2518	L8	2	The Effect of Plant-Based Natural Pesticides on Tenebrio Molitors.		
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<b>Student(s)</b>	<b>Christopher Mladen</b>	<b>Grade 8</b>	<b>Town</b>	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

<b>Danbury</b>	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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<b>Student(s)</b>	<b>Lea Sanchez-Dubois</b>	<b>Grade 8</b>	<b>Town</b>	Danbury
	<b>Shatarupa Mandal</b>	<b>Grade 8</b>	<b>Town</b>	Danbury
	<b>Shezan Alladin</b>	<b>Grade 8</b>	<b>Town</b>	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

<b>Danbury</b>	Westside Middle School Academy	Nancy Barlow	4007	PT	1	Fueling a Stirling Engine From a Cold Energy Source (Ice Cubes)		
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<b>Student(s)</b>	<b>Aaliyah Taft</b>	<b>Grade 7</b>	<b>Town</b>	Danbury
	<b>Jessica McDermott</b>	<b>Grade 7</b>	<b>Town</b>	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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<b>Student(s)</b>	<b>Alice Tran</b>	<b>Grade 8</b>	<b>Town</b> Danbury
	<b>Vianca Villacres</b>	<b>Grade 8</b>	<b>Town</b> Danbury
	<b>Thomas Lazo</b>	<b>Grade 8</b>	<b>Town</b> 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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<b>Student(s)</b>	<b>Lindsey Darby</b>	<b>Grade 12</b>	<b>Town</b> 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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<b>Student(s)</b>	<b>Avery Horn</b>	<b>Grade 12</b>	<b>Town</b> 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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<b>Student(s)</b>	<b>Anusha Narang</b>	<b>Grade 12</b>	<b>Town</b> 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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<b>Student(s)</b>	<b>Emma Quayle</b>	<b>Grade 12</b>	<b>Town</b> 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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<b>Student(s)</b>	<b>Thomas Gerlach</b>	<b>Grade 8</b>	<b>Town</b> 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)

**Enfield** Chiaravalle Academy Tim Coleman  
 1021 LT 1 Which plant is more efficient at reducing carbon dioxide from the air, through photosynthesis?

**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

**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

**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

**Student(s)** Kayla Cupillo **Grade 7** **Town** Suffield

**Enfield** Chiaravalle Academy Timothy Coleman  
 2007 L7 2 Determining the optimal mixture of chicken compost, or sand to grow beans.

**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

**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)
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<b>Enfield</b>	Chiaravalle Academy	Tim Coleman	1016	LT	1	Recycling Greywater for Plant Growth		
		<b>Student(s)</b>						
		<b>Delainey Pappas</b>					<b>Grade 8</b>	<b>Town</b> Enfield
		<b>Hadley Buttrey</b>					<b>Grade 8</b>	<b>Town</b> Windsor Locks
		<b>Caleb Quinby</b>					<b>Grade 8</b>	<b>Town</b> 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

<b>Enfield</b>	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?		
		<b>Student(s)</b>						
		<b>Holt Serrano</b>					<b>Grade 8</b>	<b>Town</b> Somers
		<b>John Donnelly</b>					<b>Grade 8</b>	<b>Town</b> Suffield

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

<b>Fairfield</b>	Fairfield College Preparatory School	Mrs. Deborah Kiel	3023	LS	3	Algae vs Other Organisms		
		<b>Student(s)</b>						
		<b>David Boudreau</b>					<b>Grade 12</b>	<b>Town</b> Ansonia

<b>Fairfield</b>	Tomlinson Middle School	Ryan Gleason	1012	LT	1	The effect of water from different sources in fairfield connecticut on the rate of plant growth		
		<b>Student(s)</b>						
		<b>Calista Gleason</b>					<b>Grade 8</b>	<b>Town</b> Fairfield
		<b>Emma Speicher</b>					<b>Grade 8</b>	<b>Town</b> Fairfield

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

<b>Farmington</b>	Farmington High School	Guoan Zheng	6031	PS	2	3D printed, Smart Pipette for pH Sensing		
		<b>Student(s)</b>						
		<b>Jiayi Liu</b>					<b>Grade 10</b>	<b>Town</b> Farmington

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

<b>Fishers Island</b>	Fishers Island School	Michelle Zimmerlin	3018	LS	1	Mytilus edulis ability to control harmful algae blooms from nitrogen rich fertilizer and phosphorus rich fertilizer.		
		<b>Student(s)</b>						
		<b>Madeleine Hatfield</b>					<b>Grade 12</b>	<b>Town</b> 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 Develping 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)
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<b>Greenwich</b>	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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<b>Student(s)</b>	<b>Sebastian DeAngelis</b>	<b>Grade 11</b>	<b>Town</b> Darien
	<b>John Morningstar</b>	<b>Grade 11</b>	<b>Town</b> 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

<b>Greenwich</b>	Brunswick School	Dana Montanez	3516	LST	1	The effects of cable bacteria on reducing methane production in microbial methanogen populations		
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<b>Student(s)</b>	<b>Jack Degl</b>	<b>Grade 10</b>	<b>Town</b> Mahopac
	<b>Henry Johnson</b>	<b>Grade 10</b>	<b>Town</b> 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

<b>Greenwich</b>	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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<b>Student(s)</b>	<b>Luke Dougherty</b>	<b>Grade 11</b>	<b>Town</b> Bronxville
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- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion

<b>Greenwich</b>	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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<b>Student(s)</b>	<b>Thomas Ewald</b>	<b>Grade 11</b>	<b>Town</b> 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
- \* CSEF Board of Directors Award --- Certificate and \$100 given by CSF
- \* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2023 Invention Convention, June 10

<b>Greenwich</b>	Brunswick School	Dana Montanez	3505	LST	2	Effects of Phototoxic Chemicals in Sunscreen on Reef-Building Coral		
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<b>Student(s)</b>	<b>Robert MacNaughton</b>	<b>Grade 11</b>	<b>Town</b> Bronxville
	<b>Michael Yeager</b>	<b>Grade 11</b>	<b>Town</b> 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		
					<b>Student(s)</b>	<b>Rebeca Manzo</b>	<b>Grade 12</b>	<b>Town</b> Riverside
Greenwich	Greenwich Country Day School	Dr. Nathan Haag	3042	LS	3	Brain Cognition amongst High School athletes: Basketball and Football		
					<b>Student(s)</b>	<b>Sebastian Matz</b>	<b>Grade 12</b>	<b>Town</b> Larchmont
Greenwich	Greenwich Country Day School	Nathan Haag	3122	LS	3	Does diet soda help with weight loss in young teenagers		
					<b>Student(s)</b>	<b>Lucas Murray</b>	<b>Grade 12</b>	<b>Town</b> 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		
					<b>Student(s)</b>	<b>Calder Perry</b>	<b>Grade 12</b>	<b>Town</b> 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?		
					<b>Student(s)</b>	<b>Lyneth Restrepo</b>	<b>Grade 12</b>	<b>Town</b> Bridgeport
Greenwich	Greenwich Country Day School	Nathan Haag	3026	LS	3	The use and experiments of CRISPR/Cas-based genome editing in plants		
					<b>Student(s)</b>	<b>Dylan Schwartz</b>	<b>Grade 12</b>	<b>Town</b> 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		
					<b>Student(s)</b>	<b>Savanna Shettler</b>	<b>Grade 12</b>	<b>Town</b> 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		
					<b>Student(s)</b>	<b>Justin Bernstein</b>	<b>Grade 10</b>	<b>Town</b> 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		
			<b>Student(s)</b>		<b>Mitchell Goldstein</b>		<b>Grade</b>	<b>Town</b>
							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		
			<b>Student(s)</b>		<b>Zara Haque</b>		<b>Grade</b>	<b>Town</b>
							10	Riverside
<ul style="list-style-type: none"> <li>* EnergizeCT Future Sustainability Awards --- 1st Place High School - Plaque &amp; \$700 Stipend to Compete at GENIUS Olympiad</li> <li>* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion</li> <li>* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion</li> <li>* GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Future Sustainability</li> </ul>								

Greenwich	Greenwich High School	Andrew Bramante	6056	PS	2	Photocatalytic Degradation of Microplastics Found in Southwestern CT Drinking Water		
			<b>Student(s)</b>		<b>Ava Jackson</b>		<b>Grade</b>	<b>Town</b>
							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		
			<b>Student(s)</b>		<b>Lucy Li</b>		<b>Grade</b>	<b>Town</b>
							11	Greenwich
<ul style="list-style-type: none"> <li>* Life Science Awards with support from Boehringer Ingelheim --- 4th Place- Life Sciences Senior High- Plaque</li> <li>* Stanley Black &amp; Decker Applied Technology Awards --- Senior High Finalist - Medallion</li> <li>* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion</li> </ul>								

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		
			<b>Student(s)</b>		<b>Audrey Lin</b>		<b>Grade</b>	<b>Town</b>
							11	Riverside
<ul style="list-style-type: none"> <li>* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion</li> <li>* National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF</li> <li>* Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt &amp; cap, First Place Senior</li> </ul>								

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.		
			<b>Student(s)</b>		<b>Maximillian Lu</b>		<b>Grade</b>	<b>Town</b>
							11	Riverside
<ul style="list-style-type: none"> <li>* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion</li> </ul>								

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



[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		
					<b>Student(s)</b>	<b>Theodora Aslan</b>	<b>Grade 10</b>	<b>Town</b> 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		
					<b>Student(s)</b>	<b>Andrei Balas</b>	<b>Grade 9</b>	<b>Town</b> 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		
					<b>Student(s)</b>	<b>Helena Chaine</b>	<b>Grade 10</b>	<b>Town</b> Orange
						<b>Eric Huang</b>	<b>Grade 10</b>	<b>Town</b> 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		
					<b>Student(s)</b>	<b>Anderson de Graaf</b>	<b>Grade 8</b>	<b>Town</b> Hamden
Hamden	Hamden Hall Country Day School	Paulomi Aldo	2522	L8	2	Blue Light Blues		
					<b>Student(s)</b>	<b>Samantha Diaz</b>	<b>Grade 8</b>	<b>Town</b> New Haven
Hamden	Hamden Hall Country Day School	Dr. Patrick Fitzgerald	3085	LS	3	The effect of storm drains on bacteria and water quality		
					<b>Student(s)</b>	<b>Kaleb Fiore</b>	<b>Grade 9</b>	<b>Town</b> Southington, CT
Hamden	Hamden Hall Country Day School	Patrick Fitzgerald	6053	PS	3	Effects of Rain Gardens on Water Quality in the Mill River		
					<b>Student(s)</b>	<b>Josh Huy</b>	<b>Grade 11</b>	<b>Town</b> Middlebury
Hamden	Hamden Hall Country Day School	Dr. Patrick Fitzgerald	3029	LS	1	Exfoliated graphite absorption of oil-based contaminants in water		
					<b>Student(s)</b>	<b>Ravindu Karunaratne</b>	<b>Grade 9</b>	<b>Town</b> 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  
 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		
					<b>Student(s)</b>	<b>Yue Zhuo</b>	<b>Grade</b>	<b>11</b>
						<b>Town</b>	<b>Hamden</b>	
Hamden	Sacred Heart Academy	Doctor Wendy Decter	3087	LS	2	Presence of American Foulbrood in Beehives		
					<b>Student(s)</b>	<b>Sophia Carrasco</b>	<b>Grade</b>	<b>9</b>
						<b>Town</b>	<b>Hamden</b>	
Hamden	Sacred Heart Academy	Dr. Wendy Decter	3037	LS	2	Do turmeric and cumin protect Daphnia's heart when it is exposed to caffeine?		
					<b>Student(s)</b>	<b>Lillian Cochran</b>	<b>Grade</b>	<b>9</b>
						<b>Town</b>	<b>New Haven</b>	
Hamden	Sacred Heart Academy	Dr. Christophy	3081	LS	2	Is There a Correlation Between Covid-19 and Scented Candle Reviews?		
					<b>Student(s)</b>	<b>Julia DeFrances</b>	<b>Grade</b>	<b>10</b>
						<b>Town</b>	<b>Hamden</b>	
Hamden	Sacred Heart Academy	Elizabeth Christophy	6032	PS	3	Can Heat Beat Your Speed?		
					<b>Student(s)</b>	<b>Camila Ferro</b>	<b>Grade</b>	<b>10</b>
						<b>Town</b>	<b>Hamden</b>	
Hamden	Sacred Heart Academy	Elizabeth Christophy	3043	LS	3	Secondary Traumatic Stress Subscales in Psychiatric Nurses: A Secondary Data Analysis		
					<b>Student(s)</b>	<b>Rachel Harrison</b>	<b>Grade</b>	<b>10</b>
						<b>Town</b>	<b>MILFORD</b>	
Hamden	Sacred Heart Academy	Wendy Decter	3070	LS	2	Electromagnetic Radiation: The Invisible Infiltrator		
					<b>Student(s)</b>	<b>Divya Sankar</b>	<b>Grade</b>	<b>9</b>
						<b>Town</b>	<b>Naugatuck</b>	
Hamden	Sacred Heart Academy	Dr.Decter	3059	LS	2	What insulation is the best		
					<b>Student(s)</b>	<b>Gianna Tullo</b>	<b>Grade</b>	<b>10</b>
						<b>Town</b>	<b>East Haven</b>	
Hartford	A.I. Prince Technical High School	Sarah Wilby	6006	PS	2	Thermacork Shelters		
					<b>Student(s)</b>	<b>Meranyelis Negron-Figueroa</b>	<b>Grade</b>	<b>11</b>
						<b>Town</b>	<b>Hartford</b>	

\* 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)

**Hartford** A.I. Prince Technical High School Sarah Wilby  
 6511 PST 3 Bibby Socks - heating your feet with the power of your steps  
**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?  
**Student(s)** **Elizabeth D'Agostino** **Grade 8** **Town** New Britain

\* 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  
**Student(s)** **Elisha Adeniran** **Grade 8** **Town** New Britain

**Hartford** Renzulli Academy Foifon Teawdatwan  
 4005 PT 3 Robot Strength  
**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)  
**Student(s)** **Xiaonian Feng** **Grade 11** **Town** Marlborough, MA

**Kent** Kent School Jesse Klingebiel  
 3045 LS 1 Cell type-specific expression of the molecular players in mouse prefrontal cortex during cocaine addiction  
**Student(s)** **Eric Teng** **Grade 11** **Town** San Marino

\* 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  
**Student(s)** **Aiden Wang** **Grade 10** **Town** Hillsborough

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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<b>Lakeville</b>	The Hotchkiss School	Richard Kirby	6049	PS	2	Assisting Carbon Neutralization: Automated Energy-saving Controller for Household Appliances		
<b>Student(s)</b>			<b>Da Zhuo (Alejandro) Zheng Zhou</b>		<b>Grade 11</b>	<b>Town</b>	Lakeville	

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

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

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

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

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

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

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

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

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

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
<b>Manchester</b>	St. James School	Ellen Oei	5005	P7	1	Which Rock is more Porous?		
			<b>Student(s)</b>		<b>Nick Grace</b>	<b>Grade 7</b>	<b>Town</b>	Manchester
<p>* Connecticut Science Fair Association Physical Science Awards --- 2nd Place- Physical Sciences 7th Grade Ind. - \$200 &amp; trophy</p> <p>* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners</p> <p>* Geology/Historic Project of Merit Award --- \$50 - Earth Science - Field work with Geologic or historic value MS</p>								
<b>Manchester</b>	St. James School	Ellen Oei	2021	L7	3	Brush Your Teeth		
			<b>Student(s)</b>		<b>Matthew Taylor</b>	<b>Grade 7</b>	<b>Town</b>	Columbia
<b>Meriden</b>	H.C. Wilcox Technical High School	Charles Rolle	6517	PST	2	Insulation Temperature Control		
			<b>Student(s)</b>		<b>Chase Casner</b>	<b>Grade 11</b>	<b>Town</b>	Cheshire
					<b>Krystian Colbert</b>	<b>Grade 11</b>	<b>Town</b>	Southington
					<b>Angel Suarez</b>	<b>Grade 11</b>	<b>Town</b>	New Britain
<b>Meriden</b>	H.C. Wilcox Technical High School	Charles Rolle	6510	PST	2	Energy Efficient Apartment		
			<b>Student(s)</b>		<b>David Hardy</b>	<b>Grade 10</b>	<b>Town</b>	Wallingford
					<b>Connor Wright</b>	<b>Grade 10</b>	<b>Town</b>	Meriden
					<b>Ethan McMahon</b>	<b>Grade 10</b>	<b>Town</b>	Southington
<p>* EnergizeCT Alternative &amp; Renewable Energy Awards --- 3rd Place High School - \$200 Cash and Plaque</p>								
<b>Middletown</b>	Xavier High School	David Applegate	3012	LS	3	The Effects of Electrical Currents in Plant Growth		
			<b>Student(s)</b>		<b>Benjamin Akaratovic</b>	<b>Grade 10</b>	<b>Town</b>	Wethersfield
<b>Milford</b>	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).		
			<b>Student(s)</b>		<b>Sahithi Alla</b>	<b>Grade 7</b>	<b>Town</b>	Milford
<p>* Alexion Biotechnology Awards --- 5th Place Biotechnology 7th grade - trophy</p>								
<b>Milford</b>	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.		
			<b>Student(s)</b>		<b>Sathvik Alla</b>	<b>Grade 8</b>	<b>Town</b>	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)

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

2502 L8 2 The Effect of Ocean Acidification on Coral Reef Growth

**Student(s)** Adithi Variar **Grade 8** **Town** Wallingford

- \* 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*)

**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

**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

**Student(s)** Tamzin Maines **Grade 10** **Town** Old Saybrook

**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

**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

**Student(s)** Yuntong Chu **Grade 11** **Town** New Milford

**Newtown** Newtown High School Timothy DeJulio

3011 LS 3 The Role of Hepatic Stellate Cells in Liver Regeneration

**Student(s)** Kaylin Brisette **Grade 9** **Town** Sandy Hook

[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) <b>Aiden Burbank</b> Grade 11 Town Sandy Hook
Newtown	Newtown High School	Timothy DeJulio	3107	LS	3	Transmissible Spongiform Encephalopathies: A Possible Treatment		Student(s) <b>Beatrice Cardamone</b> 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) <b>Maura Daly</b> 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) <b>Annabelle Foley</b> Grade 10 Town Sandy Hook
Newtown	Newtown High School	Timothy DeJulio	6004	PS	3	The MacroEnvironment		Student(s) <b>Filippo Formica</b> Grade 12 Town Sandy Hook
Newtown	Newtown High School	Timothy DeJulio	6075	PS	2	AI Based Skin Cancer Detection System		Student(s) <b>Aadit Jerfy</b> Grade 10 Town Newtown
Newtown	Newtown High School	Timothy DeJulio	6010	PS	2	Line Follower Car		Student(s) <b>Emily Li</b> 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) <b>Anna White</b> 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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<b>Norwich</b>	Norwich Technical High School	Kaminski/Pelloni	3527	LST	3	Sustainably Providing Vegetables in Accordance to Overpopulation		
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<b>Student(s)</b>	<b>Emerson Alexy</b>	<b>Grade 11</b>	<b>Town</b> Old Saybrook
	<b>Kelvin Lam</b>	<b>Grade 11</b>	<b>Town</b> Norwich

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

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

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

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

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

<b>Norwich</b>	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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<b>Student(s)</b>	<b>Elijah Smith</b>	<b>Grade 11</b>	<b>Town</b> Norwich
	<b>Jack Barnett</b>	<b>Grade 11</b>	<b>Town</b> Colchester

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

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

<b>Norwich</b>	Norwich Technical High School	Tiffani Kaminski	3518	LST	3	An Easy System to Filter Water and Improve Plant Growth		
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<b>Student(s)</b>	<b>Deijanai Vergara</b>	<b>Grade 11</b>	<b>Town</b> Norwich
	<b>Julia Dexter</b>	<b>Grade 11</b>	<b>Town</b> Waterford
	<b>Emily Lopez</b>	<b>Grade 11</b>	<b>Town</b> 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)
<b>Pomfret</b>	Pomfret School	Bill Martin	3062	LS	2	Sustainable Agriculture at Your Finger Tips		
<b>Student(s) Zhoutong Qi</b>							<b>Grade 11</b>	<b>Town Wellesley</b>
<b>Redding</b>	CT STEM Fair	Catherine Piscitelli	3104	LS	2	Determining the Availability of Telehealth Consults for Musculoskeletal Surgical Patients with Differing Insurance Plans		
<b>Student(s) Anchal Bahel</b>							<b>Grade 12</b>	<b>Town Woodbridge</b>
<b>Redding</b>	CT STEM Fair	Catherine Piscitelli	3110	LS	1	Determining the Effects of Prolonged Starvation on the Survival, Growth, and Development of Lymantria dispar		
<b>Student(s) Sabrina Osowiecki</b>							<b>Grade 10</b>	<b>Town Redding</b>
* 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								
<b>Redding</b>	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		
<b>Student(s) Jasir Zafar</b>							<b>Grade 10</b>	<b>Town Orange</b>
<b>Ridgefield</b>	Ridgefield High School	Patrick Hughes	3102	LS	2	The effect of robotic architecture on the perception of trustability in social robots		
<b>Student(s) Alyson Barczak</b>							<b>Grade 12</b>	<b>Town Ridgefield</b>
<b>Ridgefield</b>	Ridgefield High School	Patrick Hughes	6065	PS	3	Is the Initial Therapy Better to be Done Online or In-Person?		
<b>Student(s) Maya Chauhan</b>							<b>Grade 12</b>	<b>Town Ridgefield</b>
<b>Ridgefield</b>	Ridgefield High School	Patrick Hughes	3021	LS	2	Analyzing the impact of COVID-19 on the amount of happiness found in nature		
<b>Student(s) Molly Crist</b>							<b>Grade 12</b>	<b>Town Ridgefield</b>
<b>Ridgefield</b>	Ridgefield High School	Patrick Hughes	3512	LST	3	The Effect of Exercise on the Mood of Adolescents: A Survey of High School Athletes		
<b>Student(s) Isabella Crowley</b>							<b>Grade 12</b>	<b>Town Ridgefield</b>
<b>Regan McGrath</b>							<b>Grade 12</b>	<b>Town Ridgefield</b>

[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		
					<b>Student(s)</b>	<b>Cora Fitzgerald</b>	<b>Grade 12</b>	<b>Town</b> 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		
					<b>Student(s)</b>	<b>Nathan Gaynor</b>	<b>Grade 12</b>	<b>Town</b> Ridgefield
Ridgefield	Ridgefield High School	Patrick Hughes	3036	LS	2	Assessing the Impact of Synthetic Sweeteners on Hunger Perception in Drosophila Melanogaster		
					<b>Student(s)</b>	<b>Aditi Gupta</b>	<b>Grade 12</b>	<b>Town</b> 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		
					<b>Student(s)</b>	<b>Charlotte Kemp</b>	<b>Grade 12</b>	<b>Town</b> 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		
					<b>Student(s)</b>	<b>Emma Levine</b>	<b>Grade 12</b>	<b>Town</b> Ridgefield
Ridgefield	Ridgefield High School	Mr. Hughes	3014	LS	2	Examining the Characteristics of Residual Pancreatic Cells and Islets in Type 1 Diabetes		
					<b>Student(s)</b>	<b>Kavya Podila</b>	<b>Grade 12</b>	<b>Town</b> 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		
					<b>Student(s)</b>	<b>Maya Rubio</b>	<b>Grade 12</b>	<b>Town</b> 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		
					<b>Student(s)</b>	<b>Gurshaan Sandhu</b>	<b>Grade 11</b>	<b>Town</b> 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		
					<b>Student(s)</b>	<b>Samantha Verdejo</b>	<b>Grade 12</b>	<b>Town</b> 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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<b>South Windsor</b>	South Windsor High School	Dr David Kimel	6012	PS	3	Challenging the AMC10: An Examination of its Increasing Difficulty		
					<b>Student(s)</b>	<b>Aarush Kalia</b>	<b>Grade 10</b>	<b>Town</b> SOUTH WINDSOR

<b>South Windsor</b>	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)

<b>Southington</b>	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

<b>Stamford</b>	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

<b>Stamford</b>	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

<b>Stamford</b>	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

<b>Stamford</b>	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)
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<b>Stamford</b>	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

<b>Stamford</b>	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

<b>Stamford</b>	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

<b>Stamford</b>	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

<b>Stamford</b>	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

<b>Stamford</b>	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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<b>Suffield</b>	Suffield High School	Melanie Brown	6505	PST	3	Alternative Fuel Sources for Commercial Jetliners to Combat Climate Change		
<b>Student(s)</b>					<b>Christopher Crozier</b>	<b>Grade 11</b>	<b>Town</b>	Suffield
					<b>Luca Matejek</b>	<b>Grade 11</b>	<b>Town</b>	Suffield

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

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

<b>Trumbull</b>	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		
<b>Student(s)</b>					<b>Abigail Nagel</b>	<b>Grade 11</b>	<b>Town</b>	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

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

<b>Trumbull</b>	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?		
<b>Student(s)</b>					<b>Grace Rowe</b>	<b>Grade 8</b>	<b>Town</b>	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)

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

**Wallingford** Choate Rosemary Hall Jan Cook

3007	LS	1	Development of Buoyant, Lignin-Based Fulvic Acid Supply Device (FASD) to Prevent Ocean Desertification
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**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
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**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
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**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
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**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
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**Student(s)** Danny Yoon **Grade** 11 **Town** Glenview

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

**Wallingford** Choate Rosemary Hall Jan Cook

6064 PS 1 A Self-Stabilizing Haptic Accessibility Mouse for Parkinson's Disease Sufferers

**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

**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

**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

**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

**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

**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!		
					<b>Student(s)</b> Nadia Khan	<b>Grade</b> 7	<b>Town</b> Wilton	
<ul style="list-style-type: none"> <li>* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences 7th grade - CSF Medallion</li> <li>* Alexion Biotechnology Awards --- 3rd Place Biotechnology 7th grade - \$100 &amp; trophy</li> </ul>								
Wilton	Middlebrook School	Jessica Garcia	5517	P8	2	Identifying Skin Lesions with Artificial Intelligence		
					<b>Student(s)</b> Leonardo Kulon	<b>Grade</b> 8	<b>Town</b> Wilton	
<ul style="list-style-type: none"> <li>* American Society of Safety Professionals, CT Valley Chapter --- \$200 grade 7-8 project</li> </ul>								
Wilton	Middlebrook School	Kelly DePiano	2525	L8	1	Preventing Hypoxia using Magnetism		
					<b>Student(s)</b> Anshika Saagi	<b>Grade</b> 8	<b>Town</b> Wilton	
<ul style="list-style-type: none"> <li>* Life Science Awards with support from Boehringer Ingelheim --- 4th Place- Life Sciences 8th grade- trophy</li> <li>* Alexion Biotechnology Awards --- 3rd Place Biotechnology 8th grade - \$100 &amp; trophy</li> <li>* Aquarion Water Company --- 2nd. \$50.00 Cash - Grade 7-8 For Excellence in Water Quality or Environmental Management</li> </ul>								
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)		
					<b>Student(s)</b> Angela Varghese	<b>Grade</b> 8	<b>Town</b> Wilton	
<ul style="list-style-type: none"> <li>* Petit Family Foundation Women in Science &amp; Engineering Awards --- Middle School Finalist - Medallion</li> <li>* Robert Francoeur Memorial Awards --- Creative or innovative project in engineering, computer science or mathematics by female students - \$100</li> </ul>								
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		
					<b>Student(s)</b> Ana-Lois Davis	<b>Grade</b> 11	<b>Town</b> Broad Brook	
<ul style="list-style-type: none"> <li>* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion</li> <li>* Pfizer Computational Biology and Bioinformatics Awards --- 1st Place High School - \$500, Plaque</li> <li>* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 1st Place High School - \$500 and Plaque, Medallion</li> <li>* 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</li> <li>* University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Science or Mathematics, grade 11 only \$28,000 (\$7,000/year)</li> <li>* Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100</li> </ul>								
Windsor	Academy of Aerospace and Engineering	Dr. Aramli	3086	LS	3	Hybridization of Tropaeolum nanum & Tropaeolum lobbianum		
					<b>Student(s)</b> Elijah Delgado	<b>Grade</b> 11	<b>Town</b> 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					
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**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					
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**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					
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**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					
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**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					
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**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					
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**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					
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**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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<b>Woodbridge</b>	Amity Regional High School	Catherine Piscitelli	6034	PS	2	Designing and Optimizing a More Efficient and Inexpensive Optical Component for Thermal Cameras		
			<b>Student(s)</b>		<b>Anthony Sharonov</b>	<b>Grade 12</b>		<b>Town</b> Bethany

<b>Woodbridge</b>	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		
			<b>Student(s)</b>		<b>Annika Yun</b>	<b>Grade 11</b>		<b>Town</b> Orange

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

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

<b>Woodbridge</b>	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		
			<b>Student(s)</b>		<b>Annie Zhan</b>	<b>Grade 12</b>		<b>Town</b> Bethany

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