



Connecticut Science & Engineering Fair

Quinnipiac University

March 9 - 14, 2020

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, 3rd place ribbons (1st honors are CSEF Finalists)

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Avon	Avon Old Farms	Marc Hansen	3099	LS	3	Using Immunohistochemistry to Detect Chemoresistance Gene Expression in Osteosarcoma Models for Metastasis Involving Cancer Stem Cells		Student(s) Boyang Zhou Grade 11 Town Avon
Avon	Talcott Mountain Academy	John Pellino	2524	L8	3	Roots' Response to Sound		Student(s) Timothy Curtiss Grade 8 Town Oxford
Avon	Talcott Mountain Academy	Nicole Tallman	4022	PT	2	Redesigning Capacitive Deionization to Desalinate Water More Efficiently		Student(s) Derrick Li Grade 8 Town Southington David Wu Grade 8 Town Avon Zachary Starr Grade 8 Town Avon
Avon	Talcott Mountain Academy	Nicole Tallman	5001	P7	2	Increasing Global Temperatures in Relation to Extreme Weather		Student(s) Oliver Morrison Grade 7 Town Farmington
Avon	Talcott Mountain Academy	Mr John Pellino	5007	P7	1	Dampening, Quantifying, and Recording Tremor		Student(s) Ariana Pourkavoos Grade 7 Town Avon
<ul style="list-style-type: none"> * Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences 7th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS * Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- Middle Schools- \$100 / trophy * Alexion Biotechnology Awards --- 2nd Place- Biotechnology 7th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS * Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash * Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School, Physical Sciences * John S. Kendall Memorial Awards --- \$300 John S. Kendall Award for Excellence In Mechanical Engineering - Middle School 								
Avon	Talcott Mountain Academy	Priya Rajagopal	5508	P8	2	The Pathfinder: a mobile navigation system to enable people to safely and quickly evacuate large complex buildings.		Student(s) Jasper Southam Grade 8 Town Shelton
<ul style="list-style-type: none"> * Applied Technology Awards --- 1st Place Middle School - \$300 and Trophy, Medallion * Computer Science Awards --- 1st Place Middle School - \$300, Trophy 								

Conn. Science & Engineering Fair

Winning Projects

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Avon	Talcott Mountain Academy	Nicole Tallman	4009	PT	3	Compatible Carrier		
		Student(s)						
		Melina Velendzas					Grade 7	Town Glastonbury
		Soleil Asano					Grade 7	Town Torrington

Bethany	Amity Middle School - Bethany	Kevin Berean	4018	PT	2	Auto Guitar Tuner		
		Student(s)						
		Aiden Ahmed					Grade 8	Town Woodbridge
		Benjamin Aviad					Grade 8	Town Woodbridge

* Zepke Awards --- \$100 - For the Best Use of Electronic Circuitry- Middle School

Bethany	Amity Middle School - Bethany	Kevin Berean	5543	P8	3	Natural U.V Protective Sunscreen		
		Student(s)						
		Emily Baitch					Grade 8	Town Woodbridge

Bethany	Amity Middle School - Bethany	Kevin Berean	2526	L8	2	Augmented Reality in Education		
		Student(s)						
		Liliana Esposito					Grade 8	Town Woodbridge

Bethany	Amity Middle School - Bethany	Kevin Berean	5519	P8	3	Cracking A Caesar Cipher		
		Student(s)						
		Benjamin Green					Grade 8	Town Woodbridge

Bethany	Amity Middle School - Bethany	Kevin Berean	5539	P8	2	Plastic Collecting Robot		
		Student(s)						
		Jennifer Gu					Grade 8	Town Woodbridge

Bethany	Amity Middle School - Bethany	Kevin Berean	1007	LT	2	There's a Plastic-Eating Fungus Among-Us		
		Student(s)						
		Angela He					Grade 8	Town Woodbridge
		Alice Xu					Grade 8	Town Bethany

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

Bethany	Amity Middle School - Bethany	Kevin Berean	5501	P8	2	Constructing a Homemade Radon Detector		
		Student(s)						
		Gregory Hofstatter					Grade 8	Town Woodbridge

* National Center for Inquiry Learning --- Daniel & Maggie Award for Imagination - MS \$100

Conn. Science & Engineering Fair

Winning Projects

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Bethany	Amity Middle School - Bethany	Kevin Berean	4037	PT	1	Utilizing Nanotechnology to Clean Up Oil Spills		
	Student(s)	Adam Liu					Grade 8	Town Woodbridge
		Alesandro Gopal					Grade 8	Town Woodbridge

- * Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences MS Team- trophy, invite to compete Broadcom MASTERS
- * Future Sustainability Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- * Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion

Bethany	Amity Middle School - Bethany	Kevin Berean	5516	P8	2	Solar Panel Array Over a Geodesic Structure		
	Student(s)	Deborah Luo					Grade 8	Town Woodbridge

Bethany	Amity Middle School - Bethany	Kevin Berean	5551	P8	3	Miniature Horse Prosthetic		
	Student(s)	Moorea Santulli					Grade 8	Town Woodbridge

- * NYUC Pony Club Equine Award --- \$100 Cash Award or excellence in equine studies

Bethany	Amity Middle School - Bethany	Kevin Berean	5557	P8	2	Heatstroke Monitor		
	Student(s)	Mark Sheehe					Grade 8	Town Bethany

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

Bethany	Amity Middle School - Bethany	Kevin Berean	5510	P8	1	A More Efficient Microbial Fuel Cell		
	Student(s)	Iris Yan					Grade 8	Town Woodbridge

- * Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences 8th Grade Ind, - \$100 & trophy, invite to compete Broadcom MASTERS
- * U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF
- * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, middle school, \$75 cash award
- * Frank J. Link Family Award for Energy Related Research --- Frank J. Link Award for Energy Related Research - \$50

Bethel	Bethel High School	Linda Knauff	3038	LS	3	The Effects of hair Derived Fertilizer on plant growth		
	Student(s)	Brendan C Kelly					Grade 12	Town Bethel

Bethel	Bethel High School	Linda Knauff	6017	PS	3	Effects of Swept Delta Fin Parameters on Model Rocket Performance		
	Student(s)	Ryan Lemone					Grade 12	Town Bethel

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Bethel	Bethel Middle School	Mr. Jason Mawell	4014	PT	3	Rocket Design.		
		Student(s) Chiranjeevi Akkili						Grade 7 Town Bethel.
		Christopher Pani						Grade 7 Town Bethel
Bethel	Bethel Middle School	Noelle Chiafari	5530	P8	3	Sustainability in Skincare: A comparison between store-bought products and homemade (DIY) products: What's more cost efficient, time efficient, and has superior quality?		
		Student(s) Simar Soni						Grade 8 Town Bethel
								* Mathematics Awards - with ATOMIC --- Middle School Finalist - Medallion
Bethel	Bethel Middle School	Shellie Zancan	5025	P7	3	Biodegradable Trash Bag Test		
		Student(s) Emily Turek						Grade 7 Town Bethel
								* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion * Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related
Bethel	St. Mary School	Ms. Reech	5540	P8	3	"Can Styrofoam Be Recycled or Repurposed into a Substance We Can Use?"		
		Student(s) Alessandra Campolo						Grade 8 Town Bethel
Bethel	St. Mary School	Johanna Reech	2009	L7	3	A Helping Hand		
		Student(s) Francesca Friscia						Grade 7 Town Danbury
Bethel	St. Mary School	Joanna Reech	5030	P7	3	How do you create clean power....the answer is blowing in the wind		
		Student(s) Amalia Tuccinardi						Grade 7 Town Bethel
								* Constellation, an Exelon Company --- 2nd: \$50.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
Bethel	St. Mary School	Johanna Reech	5531	P8	3	Sustainability by the Spoonful		
		Student(s) William Tucker						Grade 8 Town Danbury
Bozrah	Fields Memorial School	Mrs. E. Brown	5554	P8	2	How Does Moisture Affect the Performance of a Wooden Bridge?		
		Student(s) Lily Benedict						Grade 8 Town Bozrah

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

Bozrah Fields Memorial School Mrs.E.Brown
 5504 P8 2 Domino Toppling
Student(s) Rylee Benway **Grade 8** **Town** Bozrah

Bozrah Fields Memorial School Mrs. E. Brown
 5513 P8 1 Producing Renewable Energy With Rainwater Gutter Systems Using Micro Hydro-Turbines
Student(s) Elle Okoney **Grade 8** **Town** BOZRAH

- * Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences 8th Grade Ind. - trophy and Invitation Compete in Broadcom MASTERS
- * Applied Technology Awards --- 2nd Place Middle School - \$200 and Trophy, Medallion
- * Alternative/Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy
- * Collins Aerospace Engineering Awards --- 2nd Place- Engineering MS- \$200 & trophy and Invitation Compete in Broadcom MASTERS
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * CT Architecture Foundation - The William M. Mack, AIA Award --- \$250 Gift Certificate to Barnes and Noble from the Connecticut Architecture Foundation, William M. Mack, AIA Award.
- * IEEE, Connecticut Section --- \$250 Honors Award -Junior
- * J.A. Augustine Award --- \$100 for excellence in physical sciences
- * 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 2020 Invention Convention, May 2

Bozrah Fields Memorial School Mrs. E. Brown
 5521 P8 2 The Power of a Wind Turbine
Student(s) Felicia Silva **Grade 8** **Town** Bozrah

- * Mathematics Awards - with ATOMIC --- 1st Place Middle School- \$150 from ATOMIC, and Trophy, \$300 from People's United Bank
- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- Middle School- \$200 / trophy
- * Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * U.S. Metric Association --- Certificate & \$25 gift card given by CSEF
- * Robert Francoeur Memorial Award --- Creative or innovative project in engineering or computer science by female students - \$200

Branford CT Experiential Learning Center Middle School Melinda Alcosser
 5005 P7 2 Let Them Eat Cake!
Student(s) Harper Reed **Grade 7** **Town** Guilford

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

Branford CT Experiential Learning Center Middle School Melinda Alcosser
 5537 P8 1 From Waste to Paper
Student(s) Ethan Reynolds **Grade 8** **Town** Durham

- * Lockheed Martin Physical Sciences Awards --- 5th Place- Physical Sciences 8th Grade Ind. - trophy
- * Demos R Us Award --- \$200 Cash Award- Clear Execution of Research- 8th Grade

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

Branford CT Experiential Learning Center Middle School Melinda Alcosser
 4012 PT 2 Plastic vs. Plastic - Durability and Decomposition

Student(s) Julian Scharf **Grade 8** **Town** Guilford
 Emma Higgins **Grade 7** **Town** Wallingford

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

Branford CT Experiential Learning Center Middle School Melinda Alcosser
 4027 PT 3 Repurposing Plastic Into A Tiny House

Student(s) Avyay Yarlagadda **Grade 8** **Town** Guilford
 Natalia Brown **Grade 8** **Town** North Haven

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

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

Bridgeport Bassick High School Eley Varghese
 6095 PS 3 Index of Refraction
 Calculating Sugar Content of Liquids by Measuring the Index of Refraction Using a Laser Pointer

Student(s) Shakil Ahmed **Grade 9** **Town** Bridgeport

Bridgeport Black Rock School Tejas Godbole
 1018 LT 2 Artificial Pancreas

Student(s) Camila Salgado **Grade 8** **Town** Bridgeport
 Sherlyn Barahona **Grade 8** **Town** bridgeport

Bridgeport Blackham School Patricia Wrenn
 4006 PT 3 Portable Charger

Student(s) Sharya Shajal **Grade 8** **Town** Bridgeport
 Muhammad Naeem **Grade 8** **Town** Bridgeport

Bridgeport Blackham School Patricia Wrenn
 5035 P7 2 Temper Bands

Student(s) Michael Sumigar **Grade 7** **Town** Bridgeport

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
 3051 LS 2 The Use of Trehalose as an Additive to the Antimicrobial Tetracycline in order to Increase Thermal
 Stability and Longevity

Student(s) Matthew Brander **Grade 12** **Town** Stratford

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

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
 3095 LS 3 Enhancing Blood Glucose Metabolism For Concussion Patients Through Micronutrient Therapy

Student(s) Mary Corrigan **Grade 12** **Town** Fairfield

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3007	LS	3	A Novel Nootropic Therapy as a Functional Neuroprotective and Neurorestorative Stimulant to Hypocretin-producing Neurons in Relation to Managing Narcolepsy.					
Student(s) Molly Dauk			Grade 12		Town Monroe			

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3011	LS	2	Analysis of the Antimicrobial and Antiproliferative Effects of the Coelomic Fluid of Lumbricus terrestris on E. coli and Yeast.					
Student(s) Elizabeth Davis			Grade 12		Town Trumbull			

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

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

6021	PS	2	Utilizing a Graphene Oxide/Copper and Reflective Aluminum Design to Improve Heating/Cooling Efficiency					
Student(s) Tageria Davis			Grade 12		Town Bridgeport			

* Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- High School \$500 / plaque

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3030	LS	2	Allelopathic Effects of Invasive Red Macroalga (Grateloupia turuturu) for the Mitigation of Harmful Algal Blooms					
Student(s) Lyle Given			Grade 12		Town Fairfield			

* CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- 4th Place High School - Plaque, Medallion
 * Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion
 * Environmental / Energy Award- Urban Public School Award --- Environmental / Energy Award- Urban Public School Award - \$300

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3001	LS	2	Development of Vibrio sp. Detection in Crassostrea virginica for the Consumer Market					
Student(s) Charlotte Hickey			Grade 12		Town Fairfield			

* Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt & cap, First Place Senior

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3109	LS	2	Potential Treatment to Chronic Wounds using Anti-Quorum Sensing activity from Calendula Officinalis.					
Student(s) Eun Hong			Grade 12		Town Shelton			

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3045	LS	2	Determining the Efficacy of Dexamethasone Infused Polypropylene Mesh to Prevent Post Surgical Abdominal Adhesion					
Student(s) Jordan Macdonald			Grade 12		Town Milford			

* Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place High School \$250 / plaque
 * Future Sustainability Awards --- 3rd Place High School - \$200 Cash and Plaque
 * Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Life Sciences

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

Bridgeport Bridgeport Regional Aquaculture Center Raisa Mathew
 6519 PST 2 Design a Multi-Dimensional Interface for a Smart Rescue Hoist to Minimize Helicopter Pilot Overload and Enhance Safety.

Student(s) Marshall Morse **Grade** 11 **Town** trumbull
 Quinn Cunningham **Grade** 11 **Town** Southport

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
 3117 LS 2 Micronutrient Sourcing from Macroalgae Chondrus crispus in Application of Enhanced Neonatal Dietary Supplement.

Student(s) Ana-Luisa Moura **Grade** 12 **Town** Bridgeport

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
 6069 PS 3 Analysis of Nitrite levels after the introduction of Nitrifying Bacteria containing Heat Shock Proteins.

Student(s) Jakob Newman **Grade** 12 **Town** Fairfield

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
 6103 PS 3 Utilization of Piezoelectric Elements for Power Generation on Wave-Impacted Shorelines within modifications of Breakwater Design.

Student(s) Ethan Pernek **Grade** 12 **Town** Stratford

- * Alternative/Renewable Energy Awards --- 3rd Place High School - \$200 Cash and Plaque
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion

Bridgeport Discovery Magnet School Helena Coatsworth
 5006 P7 1 PH's Color

Student(s) Beatriz Maia **Grade** 7 **Town** bridgeport

- * Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences 7th Grade Ind. - trophy and Invitation
- Compete in Broadcom MASTERS

Bridgeport Discovery Magnet School Helena Coatsworth
 5017 P7 2 Crystal Current

Student(s) Arden Mauborgne **Grade** 7 **Town** Easton

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

Bridgeport Discovery Magnet School Helena Coatsworth
 2020 L7 3 Cookie Diameter

Student(s) Kenajae Nesmith **Grade** 7 **Town** Stratford

Bridgeport Discovery Magnet School Helena Coatsworth
 5011 P7 3 Fantastic Elastic

Student(s) Natalie Roberts **Grade** 7 **Town** Milford

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Bridgeport	Fairchild Wheeler Biotechnology & Zoology	Graham Sabo	3062	LS	3	A Drop of Light		
	Student(s)	Kaithlyn Joseph					Grade 10	Town Stratford
Bridgeport	Jettie S. Tisdale School	Mrs. Morra	5524	P8	2	"The Hydraulic Arm"		
	Student(s)	Victor Ortiz					Grade 8	Town Bridgeport
Bridgeport	John Winthrop School	Caroline McKenna	4016	PT	3	Solar Oven		
	Student(s)	Jordan Tucker					Grade 7	Town Bridgeport
		Aydan Kamrudin					Grade 7	Town Bridgeport
Bridgeport	Luis Munoz Marin School	Kelly Mulligan	5556	P8	3	Breaking in Wind Turbines		
	Student(s)	Abigail Jarrett					Grade 8	Town bridgeport
bridgeport	Luis Munoz Marin School	Kelly Mulligan	5010	P7	3	Are you eating iron for breakfast		
	Student(s)	Nkhia Peterson					Grade 7	Town bridgeport
Bridgeport	Multicultural Magnet School	Mrs. Corina Starn	2006	L7	1	HUMIDITY IMPACT		
	Student(s)	Sofia Atehortua					Grade 7	Town Bridgeport
	* PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion							
	* American Meteorological Society --- Certificate & \$25 gift card given by CSEF							
Bridgeport	Park City Prep Charter School	Vicky Boudreau	1013	LT	3	How To Make Saltwater Drinkable		
	Student(s)	Rania Aboutayeb					Grade 7	Town Fairfield
		Karla Dominguez					Grade 7	Town Bridgeport
		Abril Galicia					Grade 7	Town Bridgeport
	* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF							
Bridgeport	Park City Prep Charter School	Mr. Jaekle	4026	PT	3	Rethink Your Drink!		
	Student(s)	Ja'Miyah Nelson					Grade 8	Town Bridgeport
		Kiara Oquendo					Grade 8	Town Bridgeport

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Bridgeport	Park City Prep Charter School	Mr. Jaekle	4030	PT	3	Shower Treats		
		Student(s)						
		Cassidy Palifka					Grade 8	Town Bridgeport
		Rosemary Portillo					Grade 8	Town Bridgeport
Bridgeport	Park City Prep Charter School	Mr. Jaekle	2514	L8	3	The Greenhouse effect		
		Student(s)						
		Kaleeah Philoche					Grade 8	Town Bridgeport
Bridgeport	Park City Prep Charter School	Mr. Jaekle	2529	L8	3	How does your water measure up?		
		Student(s)						
		Gabriella-Elise Rodrigues					Grade 8	Town Waterbury
Bridgeport	Park City Prep Charter School	Vicky Boudreau	1002	LT	2	Does Smell Affect Taste		
		Student(s)						
		Mateus Rodrigues					Grade 7	Town Waterbury
		Leonardo Rivera					Grade 7	Town Bridgeport
Bridgeport	Park City Prep Charter School	Vicky Boudreau	5034	P7	2	Creating A Tornado		
		Student(s)						
		Alvin Rosario III					Grade 7	Town Bridgeport
Bridgeport	Park City Prep Charter School	Johnathan Jaekle	5515	P8	3	Toothpaste Is Cool		
		Student(s)						
		Alvin Russell					Grade 8	Town Bridgeport
Bridgeport	Park City Prep Charter School	Vicky Boubreau	5021	P7	3	Solar Power		
		Student(s)						
		Salina Shaw					Grade 7	Town Bridgeport
Bridgeport	Thomas Hooker School	Ms Cooley	2504	L8	2	Cigarettes VS Vaping. My project is about how these two different ways of smoking affect your lungs		
		Student(s)						
		Nathan Belinski					Grade 8	Town bridgeport
Bridgeport	Warren Harding High School	Lilliam Solis-Vega	3522	LST	3	The radish plant and the microwave		
		Student(s)						
		Karolayn Cevallos					Grade 11	Town Bridgeport
		Natalia Cevallos					Grade 11	Town Bridgeport

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

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Bridgeport	Warren Harding High School	Ms.Steiner	6006	PS	3	Curdling Milk		
Student(s) Adriana Garcia Lantigua							Grade 9	Town Bridgeport
Bridgeport	Warren Harding High School	Mrs.Gupta	3100	LS	3	Can different moods affect what we eat?		
Student(s) Isabella Lopez							Grade 10	Town Bridgeport
Brookfield	Saint Joseph Catholic Academy	Mrs. Dimon	2513	L8	2	THE EFFECT OF FIRE DURATION ON REFORESTATION RATE		
Student(s) Abigail Cristaudo							Grade 8	Town Brookfield
* Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash								
Brookfield	Saint Joseph Catholic Academy	Dimon	5503	P8	3	THE EFFECT OF THE TYPE OF PAINT ON THE THERMAL PROTECTION OF WOOD		
Student(s) Nathan Fry							Grade 8	Town Brookfield
Brookfield	Saint Joseph Catholic Academy	Mrs. Dimon	2015	L7	3	The Effect of the Amount of Charcoal in a Water Filter to Prevent Detergent in Fresh Waters		
Student(s) Cameron O'Rourke							Grade 7	Town Brookfield
Brookfield	Saint Joseph Catholic Academy	Mrs. Dimon	5514	P8	3	The Effect of Fire on Petroleum Solids and Natural Products		
Student(s) Dakota Pane							Grade 8	Town New Milford
Brookfield	Saint Joseph Catholic Academy	Marde Dimon	2011	L7	2	The Effect of Temperature on the number and species of macro invertebrates in fresh water		
Student(s) Ryan Sweeting							Grade 7	Town Danbury
Brookfield	Saint Joseph Catholic Academy	Mrs. Marde Dimon	5509	P8	2	The Effect of Fire on The Mass Of Different Species of Native Pacific Northwest Trees		
Student(s) Sonny Williams							Grade 8	Town Brookfield

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Canton	Canton Middle School	Ashley LaPane	2501	L8	1	Concentration of Microplastics in Four Farmington River Locations		
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Student(s) Lauren Marze **Grade 8** **Town** Canton

- * PepsiCo / Pfizer Life Sciences Awards --- 1st Place- Life Sciences 8th grade- \$300 & trophy and Invite to Compete Broadcom MASTERS
- * Environmental Sciences Awards with CACIWC --- 2nd Place MS- \$200, Trophy
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Life Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Phys Science
- * Southeastern New England Marine Educators (SEMEME) --- \$100 award and membership in SEMEME - 1st Place Junior & T-Shirt

Cheshire	Cheshire Academy	Mariam Aboian	3035	LS	2	Quantitative molecular imaging of brain tumors using Positron Emission Tomography (PET)		
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Student(s) Julia Shatalov **Grade 11** **Town** Cheshire

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

Cheshire	Cheshire High School	Julie Barker	6038	PS	2	Object Detection Universal System [O.D.U.S]		
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Student(s) Siddhant Bhardwaj **Grade 9** **Town** Cheshire

- * Collins Aerospace Engineering Awards --- 2nd Place- Engineering Senior High- \$400 & plaque
- * American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 9-12 project
- * IEEE, Connecticut Section --- \$100 Honorable Mention

Cheshire	Cheshire High School	Julie Barker	3049	LS	2	Could Nanosilver in Consumer Products Affect Pond Life?		
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Student(s) Koushik Gadachanda **Grade 11** **Town** Cheshire

Colchester	William J. Johnston Middle School	Mrs.Ngai	4003	PT	2	Low-pressure conversion of carbon dioxide to methanol.		
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Student(s) Frank Dobek **Grade 7** **Town** Colchester
John Marks **Grade 7** **Town** Colchester

- * National Center for Inquiry Learning --- Daniel & Maggie Award for Imagination - MS \$100

Danbury	Danbury High School	Kris Davidson	3106	LS	2	Effect of Environmental Factors and Cloth Type on the Biodegradation of Synthetic and Natural Fibers		
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Student(s) Srishti Ramakrishnan **Grade 9** **Town** Danbury

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Danbury	Henry Abbott Technical High School	A.S. Ipkovich	6052	PS	3	Efficient Electricity Production through Temperature Differential		
			Student(s)		Yousef Masood	Grade 11	Town	Danbury
<ul style="list-style-type: none"> * Technical High School Science & Technology Awards --- 1st Place- Technical High School, Plaque & Stipend to Compete at GENIUS Olympiad * University of Hartford Scholarships --- University of Hartford Scholarship- For Excellence in Engineering, or Technology, \$27,000 * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place Technical High School 								
Danbury	Immaculate High School	Daniel Baluha	6013	PS	1	Effective Removal of Systemic Pesticides from Fresh Fruits		
			Student(s)		Elias Haddad	Grade 11	Town	Danbury
<ul style="list-style-type: none"> * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion * University of Hartford Scholarships --- University of Hartford Scholarship- For Excellence in Engineering, or Technology, \$27,000 								
Danbury	Saint Joseph School	Jennifer Reilly	2505	L8	2	Soil vs Water: which method of gardening is more efficient		
			Student(s)		Aneesha Addepalli	Grade 8	Town	Danbury
Danbury	Saint Joseph School	Mrs. Reilly	4032	PT	3	Water Filtration Station		
			Student(s)		Maris Chirayil	Grade 7	Town	Danbury
			Student(s)		Tatiana Frouge	Grade 7	Town	Danbury
Danbury	Saint Joseph School	Jennifer Reilly	2014	L7	1	Beverage Stains on Teeth		
			Student(s)		Charles Doran	Grade 7	Town	Danbury
<ul style="list-style-type: none"> * PepsiCo / Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS 								
Danbury	Saint Joseph School	Mrs.Reilly	1009	LT	3	Which Yeast Makes Bagels Grow the More?		
			Student(s)		Cameron Froehlich	Grade 8	Town	Danbury
			Student(s)		Rylee Webb	Grade 8	Town	Danbury
Danbury	Saint Joseph School	Mrs. Jennifer Reilly	2508	L8	2	Cabbage Patch Kids		
			Student(s)		Nicole Radliff	Grade 8	Town	New Fairfield

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Danbury	Saint Joseph School	Jennifer Reilly	1003	LT	2	Hand Sanitizers and Wipes Against Bacteria		
		Student(s) Melanie Riggs					Grade 8	Town Danbury
		Catherine Baptiste					Grade 8	Town danbury
* American Society of Safety Professionals, CT Valley Chapter --- \$100 grade 7-8 project								
Danbury	St. Gregory the Great School	Christine Fahey	2518	L8	2	The Effect of Vinegar on Plants' Resistance to Drought		
		Student(s) Tyler Fahey					Grade 8	Town Danbury
* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion								
Danbury	St. Gregory the Great School	Christine Fahey	2023	L7	2	Ready set grow		
		Student(s) Nicole Falcao					Grade 7	Town Danbury
Danbury	St. Gregory the Great School	Christine Fahey	5541	P8	2	Solubility Differences Among a-SEEt-a-MIN-oh-Fen		
		Student(s) Thejus Joseph					Grade 8	Town Danbury
Danbury	St. Gregory the Great School	Mrs. Fahey	5031	P7	2	Exploring the Forces of Friction		
		Student(s) Brendan J Kelly					Grade 7	Town Danbury
* Vanderbilt Chemicals, LLC --- Vanderbilt Chemicals Award for Excellence in Tribology and Sustainable Lubrication								
Danbury	St. Gregory the Great School	Christine Fahey	1015	LT	3	Filtration Nation		
		Student(s) Nicole Merritt					Grade 7	Town Danbury
		Anna Tallaksen					Grade 7	Town New Milford
		Kaitlyn Sherry					Grade 7	Town Danbury
Danbury	St. Gregory the Great School	Christine Fahey	2523	L8	3	The Effect of Detergent on Plants		
		Student(s) Hannah Poklemba					Grade 8	Town Danbury
Danbury	St. Gregory the Great School	Christine Fahey	2005	L7	3	The Effect of Soaps on Plants		
		Student(s) Grace Scalzo					Grade 7	Town Danbury

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Danbury	St. Gregory the Great School	Christine Fahey	1019	LT	3	Wave Bye To Gasoline!		
		Student(s) Deanna Sutton					Grade 8	Town Danbury
		Sarina Johnson					Grade 8	Town Danbury
Danbury	Westside Middle School Academy	Jonathan Neuhausel	2010	L7	2	How Much Caffeine Does My Coffee Have?		
		Student(s) Anoohya Allenky					Grade 7	Town Danbury
Danbury	Westside Middle School Academy	Jonathan Neuhausel	2520	L8	2	Citric Acid Synthesis using Aspergillus Niger		
		Student(s) Ava Amatulli					Grade 8	Town Danbury
		* CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion						
Danbury	Westside Middle School Academy	Jonathan Neuhausel	2527	L8	1	Kombucha SCOBY Infused Hydrogels as a Natural Bandaid Stopping the Growth of Escherichia coli		
		Student(s) Ella Brown					Grade 8	Town Danbury
		* PepsiCo / Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 8th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS						
		* CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion						
		* Alexion Biotechnology Awards --- 2nd Place- Biotechnology 8th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS						
		* Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School Life Sciences						
Danbury	Westside Middle School Academy	Jonathan Neuhausel	5538	P8	2	Designing an Automatic Watering Device using an Arduino		
		Student(s) Shriya Jonnalagadda					Grade 8	Town Danbury
		* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion						
		* Robert Francoeur Memorial Award --- Creative or innovative project in engineering or computer science by female students - \$200						
Danbury	Westside Middle School Academy	Johnathan Neuhausel	5544	P8	2	How Different Types of Water Affect Hydrogen Production		
		Student(s) Ryan Lincoln					Grade 8	Town Danbury
Danbury	Westside Middle School Academy	Jonathan Neuhausel	2017	L7	2	The Effect of Different Preservatives on Bread Mold		
		Student(s) Maria Nascimento					Grade 7	Town Danbury

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

Danbury Westside Middle School Academy Jonathan Neuhausel

5549 P8 2 Making an Affordable Ozone Sensor and Proofing its Accuracy

Student(s) Richard Parker **Grade 8** **Town** danbury

- * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- 2nd Place Middle School - \$200 and Trophy, Medallion
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * Urban School Challenge 1st Place Middle School Awards --- Highest Placing 8th grader- GENIUS-Olympiad Competition -\$800 travel stipend (See Sponsor 421)
- * GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project
- * Dreams Unlimited Award --- \$100 Cash Award + Certificate to each student

Danbury Westside Middle School Academy Jonathan Neuhausel

2515 L8 1 The Effect of Habitat Loss on a Cockroaches Stress and Well Being

Student(s) Kaitlyn Salvatore **Grade 8** **Town** Danbury

- * PepsiCo / Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 8th grade- \$200 & trophy and Invite to Compete Broadcom MASTERS
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- Middle School \$300 / trophy
- * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- 3rd Place Middle School - \$100 and Trophy, Medallion
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS

Danbury Westside Middle School Academy Jonathan Neuhausel

2510 L8 1 Testing Escherichia coli's Resistance to Different Dilutions of Bacteriophage Coliphage T4 and Coliphage T4R

Student(s) Sabrina Serpa-Smith **Grade 8** **Town** danbury

- * PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion

Danbury Westside Middle School Academy Jonathan Neuhausel

2502 L8 1 Tumor Suppression of Agrobacterium tumefaciens in Daucus carota

Student(s) Maria Eduarda Sousa **Grade 8** **Town** Danbury

- * PepsiCo / Pfizer Life Sciences Awards --- 4th Place- Life Sciences 8th grade- trophy and Invitation Compete in Broadcom MASTERS
- * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology 8th grade- trophy

Danielson H.H. Ellis Technical High School Marilyn Ackerman

3513 LST 3 Processed Foods vs. Organic Foods and its effect on mental and physical health

Student(s) Alexis LeBlanc **Grade 10** **Town** Plainfield
 Madison Brown **Grade 10** **Town** Jewett City

Danielson H.H. Ellis Technical High School Marilyn Ackerman

6511 PST 3 net zero YMCA

Student(s) Elliane Mora **Grade 10** **Town** Norwich
 Kendyll Petty **Grade 10** **Town** Danielson

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

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Darien	Darien High School	Mrs. Leventhal	3124	LS	2	Dual Targeting of ARK5 and CDK4 to Induce Cell Death in Triple-Negative Breast Cancer		
			Student(s)		Shriya Desai		Grade 12	Town Darien
* Alexion Biotechnology Awards --- 2nd Place- Biotechnology Senior High- \$300 & plaque								
Darien	Darien High School	David Lewis	6098	PS	3	Concentration of Microplastics in Different Bodies of Water in Darien, CT		
			Student(s)		Lila Karl		Grade 12	Town Darien
Darien	Darien High School	Christine Leventhal	6508	PST	3	Evaluation of Fluid Preliminary Drug Testing Device		
			Student(s)		Emma Mansourian		Grade 12	Town Darien
			Student(s)		Taryn Pardo		Grade 12	Town Darien
Darien	Darien High School	Christine Leventhal	6530	PST	3	The Distribution and Fluctuations of Dissolved Oxygen at Different Locations Northeast of New York City along the Long Island Sound		
			Student(s)		Katherine McTigue		Grade 12	Town Darien
			Student(s)		Samantha Lindell		Grade 12	Town Darien
Darien	Darien High School	Guy Pratt	3096	LS	3	The Impact of Targeted Modifications of SNPs rs265 And rs99 In iPSC Cells Using CRISPR/Cas9 on Obesogenic Gene Expression		
			Student(s)		Aria Muchhal		Grade 12	Town Darien
Darien	Darien High School	Guy Pratt	3112	LS	2	Evaluating Clinical Course and Outcomes in Patients with BRCA Mutations and Pancreatic Adenocarcinoma		
			Student(s)		Catherine O'Connor		Grade 12	Town Darien
Darien	Darien High School	David Lewis	3104	LS	2	The Impact of Genetically-Altered Endothelial Cells on Metastasis of Breast Cancer to the Lung		
			Student(s)		Ashwini Patel		Grade 12	Town Darien
Darien	Darien High School	Christine Leventhal	6029	PS	3	Estimating Ice Elevations Using a Bayesian Model and Satellite Image Data with Minimal Error		
			Student(s)		Anika Satish		Grade 12	Town Darien

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

Darien Darien High School Mrs. Janet Keeler
 3119 LS 3 Development of an Accurate Model for More Precise Treatment of the Rectal Cancer Patient
Student(s) James Strong **Grade** 11 **Town** Darien

Darien Darien High School Ms. Lauren Golden
 3092 LS 2 The Effects of Inhibition of Aurora Kinase A on Myxofibrosarcoma Cell lines
Student(s) Jonathan Strong **Grade** 10 **Town** Darien

Darien Darien High School Christine Leventhal
 6083 PS 1 Minimally invasive pancreatoduodenectomy versus open pancreatoduodenectomy in the current era: systematic review and meta-analysis of available literature
Student(s) Ethan Zhang **Grade** 11 **Town** Darien

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

East Hartford St. Christopher School Dr. James F. Tanguay
 5013 P7 1 Exploring Magnetism
Student(s) Daniel Mitchell **Grade** 7 **Town** Marlborough

* Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS

East Hartford St. Christopher School Dr. James F. Tanguay
 2507 L8 3 Beans and Leaves
Student(s) Lota Onyia **Grade** 8 **Town** East Hartford

Ellington Ellington High School Steven Donahue
 6097 PS 2 Enhanced Sensing of Propylene Glycol Vapor for E-Cigarette Detection
Student(s) John Gerlach **Grade** 9 **Town** Ellington

Enfield Chiaravale Academy Timothy Coleman
 1005 LT 1 Using Charcoal as a Fertilizer Supplement
Student(s) Joella Asapokhai **Grade** 7 **Town** South Windsor
 Alexandria Croal **Grade** 7 **Town** Enfield
 Jordan Roy **Grade** 7 **Town** Enfield

* PepsiCo / Pfizer Life Sciences Awards --- 2nd Place- Life Sciences MS Team- \$100 each & trophy and Invite Compete Broadcom MASTERS
 * Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Enfield	Chiaravale Academy	Mr. Tim Coleman	4025	PT	2	Fuel Efficiency of a Paper Brick Versus a Bio-Brick		
	Student(s)	Abigail Quinby					Grade 7	Town Windsor
		Lincoln Marshaus					Grade 7	Town Suffield
		Alexander Gumkowski					Grade 7	Town North Haven
	* ASM Materials Education Foundation --- Certificate & \$25 gift card given by CSEF							
Fairfield	Fairfield College Preparatory School	Deborah Kiel	3067	LS	3	Energy Production From Backyard Septic Systems.		
	Student(s)	Antonios Boudreau					Grade 11	Town Ansonia
	* University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Life Sciences - Co-Op \$100 Gift Certificate							
Fairfield	Fairfield College Preparatory School	Mrs. Deborah Kiel	6047	PS	3	Efficient Power Lines That Prevent Copper Theft		
	Student(s)	David Boudreau					Grade 9	Town Ansonia
Fairfield	Fairfield Ludlowe High School	Jessica Davis-Peineke	6039	PS	2	Odachi Retrosynthesis Engine: Predicting Organic Retrosynthesis with Graph Convolutional Deep Learning		
	Student(s)	Rushil Mallarapu					Grade 11	Town Southport
	* Computer Science Awards --- 1st Place High School - \$400, Plaque							
Farmington	Farmington High School	Xiaodi Wang	3517	LST	1	Wavelet-Based Machine Learning Algorithms to Enhance Cardiovascular Disease Diagnosis		
	Student(s)	Veronica Pegkou Christofi					Grade 12	Town Farmington
		Rafaela Kottou					Grade 12	Town Farmington
	* PepsiCo / Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High Team- \$500 (split) & Plaque * Mathematics Awards - with ATOMIC --- 3rd Place High School - Plaque, \$200 from People's United Bank							
Farmington	Farmington High School	Virginia Toepfer	6075	PS	2	The Corrosive Effects of Modern De-icing Chemicals on Various Metals.		
	Student(s)	Angela Sadlowski					Grade 11	Town UNIONVILLE
Farmington	Irving Robbins Middle School	Nancy Stacy	5019	P7	2	Intelligent Rice Blast Disease Detector		
	Student(s)	Ann Song					Grade 7	Town Farmington
	* Applied Technology Awards --- Middle School Finalist - Medallion * Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & trophy and Invitation Compete in Broadcom MASTERS							

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Fishers Island	Fishers Island School	Carol Giles	3072	LS	2	Oyster Gonad Production		
					Student(s)	Ashley Butler	Grade 12	Town Groton
Fishers Island	Fishers Island School	Carol Giles	3111	LS	2	Antimicrobials in the Natural World: Assessing their effectivity against E-Coli Strain K-12		
					Student(s)	Arabella Hatfield	Grade 11	Town Noank
Fishers Island	Fishers Island School	Carol Giles	3027	LS	2	Lumbricus Terrestris's Effect on Climate Change: Carbon Source or Sink?		
					Student(s)	Lillian Kane	Grade 11	Town Groton
Fishers Island	Fishers Island School	Carol Giles	3061	LS	3	Population Density of Disease Carrying Ticks in Urban and Rural Locations		
					Student(s)	Ellanora Lerner	Grade 12	Town New London
Forestville	St. Matthew School	Mrs. Persichetti	5529	P8	2	How Old is the Universe?		
					Student(s)	Grace Beyer	Grade 8	Town Bristol
* Connecticut College-Physics, Astronomy, & Geophysics Dept. --- \$150 and Certificate, Junior Physics & T-shirt								
Forestville	St. Matthew School	Mrs. Persichetti	2004	L7	2	Hydroponics		
					Student(s)	Liam Lines	Grade 7	Town Bristol
Forestville	St. Matthew School	Mrs. Persichetti	5536	P8	3	Do Baseball Field Dimensions Affect Hitters?		
					Student(s)	Allison Mangiagli	Grade 8	Town Bristol
Forestville	St. Matthew School	Miss Persichetti	2024	L7	1	Does age affect memory?		
					Student(s)	Victoria Matkowski	Grade 7	Town Bristol
* PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion								
Glastonbury	Glastonbury High School	Ms. Diane Pintavalle	3055	LS	2	ENZYME TRIGGERED DEGRADATION STUDIES OF A NUCLEUS TARGETED NUCLEIC ACID NANOCAPSULE		
					Student(s)	Ananya Aggarwal	Grade 12	Town South Glastonbury
* Collins Aerospace Engineering Awards --- 3rd Place- Engineering Senior High- \$200 & plaque								

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

Glastonbury Glastonbury High School Ms. Diane Pintavalle
 3114 LS 2 Mechanistic Study of Sustained Release Microneedles
Student(s) Kayli Anderson **Grade 12** **Town** Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle
 3039 LS 3 Characterization of a Thermo-Responsive Crosslinker for Controlling Micelle Degradation
Student(s) Nicholas Bassett **Grade 12** **Town** Glastonbury

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

Glastonbury Glastonbury High School Diane Pintavalle
 6053 PS 2 Synthesis of Novel Mesoporous Mixed Metal Oxides
Student(s) Shanmukakumari Channa **Grade 12** **Town** Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle
 6096 PS 3 The Optimal Heat Acclimation Approach for the U.S. Military
Student(s) Tiffany Jefferson **Grade 12** **Town** Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle
 3059 LS 2 Inferring Population Structure Using Boosted Clark Consistency Graphs
Student(s) Dhanush Kalangi **Grade 11** **Town** Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle
 6102 PS 2 Determining the Efficiency of Machine Learning in Missile Detection and Tracking
Student(s) Jacob Krucinski **Grade 12** **Town** Glastonbury

* U.S. Air Force --- Certificate & \$25 gift card from CSEF

Glastonbury Glastonbury High School Diane Pintavalle
 3084 LS 2 Exploring a Novel Approach for Tackling Climate Change: Engineering Enzymes for Improved CO2 Removal and H2 Production
Student(s) Leonard Liu **Grade 11** **Town** Glastonbury, CT

* U.S. Air Force --- Certificate & \$25 gift card from CSEF
 * National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF
 * Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF
 * Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, air pollution related

Glastonbury Glastonbury High School Diane Pintavalle
 3012 LS 2 THE EXPRESSION OF BECLIN-1 IN METASTASIS FOR PATIENTS OF OSTEOSARCOMA
Student(s) Naiya Patel **Grade 12** **Town** GLASTONBURY

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

Glastonbury Glastonbury High School Diane Pintavalle

3014 LS 1 Understanding the antimicrobial properties of type 2 Abeacin

Student(s) Andrei Radulescu **Grade** 12 **Town** Glastonbury

* PepsiCo / Pfizer Life Sciences Awards --- 3rd Place- Life Sciences Senior High- \$200 & Plaque

Glastonbury Glastonbury High School Diane Pintavalle

6004 PS 2 Spatiotemporal mapping and statistical analysis of native, endemic, and invasive floras using vegetation index data from multispectral optical imagery in the Galapagos islands

Student(s) Anna Radulescu **Grade** 11 **Town** Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle

3008 LS 3 Optimizing a Method for Parathyroid Cell Primary Culture

Student(s) Anirudh Undrakonda **Grade** 12 **Town** Glastonbury

Greenwich Brunswick School Dana Montanez

6003 PS 2 Utilizing Alpha-Particle Decay as a Catalyst for Ionization and a Source of Clean Energy

Student(s) Luke Apostolides **Grade** 10 **Town** Greenwich

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

Greenwich Brunswick School Dana Montanez

6520 PST 2 Condensation and Collection of Cooling Tower Steam:

Student(s) Ashton Arjomand **Grade** 10 **Town** Greenwich

Max Konzerowsky **Grade** 10 **Town** Darien

* Westinghouse Electric Company/New England Chapter of North American Young Generation in Nuclear --- 1st place, Excellence in Energy Research, \$100 cash award

Greenwich Brunswick School Dana Montanez

6064 PS 2 Deducing and Neutralizing Clopyralid Concentration in Bagged Compost

Student(s) Leyton Borcharding **Grade** 11 **Town** Greenwich

Greenwich Brunswick School Dana Montanez

6503 PST 2 Creation of an Efficient Fluid Coolant System through the use of Ferrofluid

Student(s) John Brown **Grade** 10 **Town** Greenwich

Caleb Boateng **Grade** 10 **Town** New York

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

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Greenwich	Brunswick School	Dana Montanez	3501	LST	2	Utilization of Micro-bubbles as a Catalyst for Flocculation of Polluted Water		
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Student(s)	Tristan Chang	Grade 11	Town Greenwich
	Coulter Mackesy	Grade 11	Town Bronxville

* Applied Technology Awards --- Senior High Finalist - Medallion

Greenwich	Brunswick School	Dana Montanez	6008	PS	2	Delivery of Medical Supplies using Autonomous Thrust Vectoring UAVs to 3rd World Countries Post Natural Disasters		
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Student(s)	Thomas Fouts	Grade 11	Town Rye
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* U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF

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

Greenwich	Brunswick School	Dana Montanez	3511	LST	2	The Effects of Virtual Reality on Adolescent Reaction Time and Cognitive Recall		
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Student(s)	Samuel Guadalupe	Grade 10	Town Greenwich
	Aidan Marks	Grade 10	Town Riverside

Greenwich	Brunswick School	Dana Montanez	3076	LS	1	Predicting Droughts from Satellite Images using Novel Convolutional Neural Network Techniques		
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Student(s)	Ali Hindy	Grade 11	Town Greenwich
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* PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion

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

Greenwich	Brunswick School	Dana Montanez	6510	PST	1	Desalination and Purification of Seawater using Solar-Powered Electrodialysis		
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Student(s)	Gregory Kapp	Grade 10	Town Greenwich
	Michael Montgomery	Grade 10	Town Greenwich

* Lockheed Martin Physical Sciences Awards --- 3rd Place - Physical Sciences Senior High Team - Plaque

Greenwich	Brunswick School	Dana Montanez	6019	PS	2	Texting-and-Driving Safety Device: Utilizing a Hydraulic Braking System Activated by a Touch-Sensor Steering Wheel to Increase Driver Engagement.		
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Student(s)	Noah Levi	Grade 11	Town Wilton
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* Applied Technology Awards --- 1st Place High School - \$500 and Plaque, Medallion

* American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 9-12 project

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

* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

* University of Connecticut Academic Excellence Scholarship --- Academic Excellence Physical Sci. scholarship - \$7,500 /year, four academic years- (\$30,000 total)

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

Greenwich Brunswick School Dana Montanez
 6068 PS 2 Development of a Novel Neural Network Architecture for Improved Multiclass Classification

Student(s) Jamison Meindl **Grade** 12 **Town** Riverside

* Mathematics Awards - with ATOMIC --- High School Finalist - Medallion

Greenwich Brunswick School Dana Montanez
 3526 LST 2 Creation of a NaBI EA tural Water Filtration System of Heavy Metals Using Pleurotus Ostreatus Fungi

Student(s) Colin Mulshine **Grade** 11 **Town** Riverside

Brooks Ferguson **Grade** 11 **Town** Greenwich

Greenwich Brunswick School Dana Montanez
 6529 PST 2 Optimization of the Insoles: Material Testing to Maximize Athletic Results

Student(s) Myles Spiess **Grade** 10 **Town** Old Greenwich

Nicholas Altman **Grade** 10 **Town** Mount Kisco

* Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion

* Samantha Freeman Award for Excellence in Sports Science or Engineering --- For Excellence in Sports Science or Engineering by a High School student, \$150 cash

Greenwich Brunswick School Dana Montanez
 6027 PS 3 Microplastic Concentrations in the Mianus River: Filtering, Measuring, and Mapping

Student(s) Ryan Winston **Grade** 11 **Town** Greenwich

Greenwich Greenwich Academy Kristin Gannon
 2018 L7 1 The Effects of Fertilizers on the Diversity and Density of Soil Microbes

Student(s) Ruby Montanez **Grade** 7 **Town** Greenwich

* PepsiCo / Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS

* Environmental Sciences Awards with CACIWC --- 3rd Place MS- \$100, Trophy

* Alexion Biotechnology Awards --- 4th Place- Biotechnology 7th grade- trophy and Invitation Compete in Broadcom MASTERS

Greenwich Greenwich Academy Dr. Monica Ortiz
 3016 LS 2 Using Artificial Intelligence to Uncover the Connection between RNA Gene Expression and Cancer

Student(s) Natalie Shell **Grade** 10 **Town** Greenwich

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

* CT Technology Council / CT Center for Advanced Technology Young Woman Innovation Award --- \$150 Cash Award for Technological Innovation by a female project

Greenwich Greenwich Catholic School Mrs. Carol Lutz
 4038 PT 3 Shades N' Rays

Student(s) Elle Brew **Grade** 7 **Town** Greenwich

Kate Robinson **Grade** 7 **Town** Stamford

Sofia Navarrete **Grade** 7 **Town** Stamford

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

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

Greenwich Greenwich Catholic School Mrs. Lutz
 4031 PT 3 TEG TALK
Student(s) Tyler Caputo **Grade 8** **Town** Greenwich
 Anton Srdanovic **Grade 8** **Town** Stamford

Greenwich Greenwich Catholic School Carol Ann Lutz
 4011 PT 2 Vibration Voltage
Student(s) William Carragher **Grade 8** **Town** Stamford
 Christian Sorbera **Grade 8** **Town** Greenwich
 Sydney Dettmer **Grade 8** **Town** Stamford

* Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy

Greenwich Greenwich Catholic School Carol Lutz
 4004 PT 3 Natural Nails
Student(s) Adriana Cerbone **Grade 7** **Town** Stamford
 Izzy Hegarty **Grade 7** **Town** Stamford

Greenwich Greenwich High School Bramante
 3018 LS 1 Non-Invasive Augmentation of Modern Depression Phototherapy through Targeting
Student(s) Charlie Decker **Grade 11** **Town** Old Greenwich

- * PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Future Sustainability Awards --- High School Finalist - Medallion
- * Otero Family Award --- The Otero Family Award; \$200 cash
- * University of Connecticut Academic Excellence Scholarship --- Academic Excellence Life Sciences scholarship - \$7,500/year, four academic years- (\$30,000 total)

Greenwich Greenwich High School Andrew Bramante
 6026 PS 2 Decoding Algorithms for Correction of X-Z and Spacially Correlated Errors in Topological Quantum Computing
Student(s) Sam Florin **Grade 11** **Town** Greenwich

- * Computer Science Awards --- Senior High Finalist - Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificat

Greenwich Greenwich High School Andrew Bramante
 3050 LS 2 Early Diagnosis of Pancreatic Cancer via Urinary Biomarkers with a New, Rapid, and Simple Lateral Flow Assay
Student(s) Ana-Florina Galic **Grade 10** **Town** Riverside

- * Collins Aerospace Engineering Awards --- 1st Place- Engineering Senior High- \$500 & plaque,
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology Senior High- \$300 & plaque
- * Lunch with a Patent Attorney --- Lunch with a Patent Attorney

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

Greenwich Greenwich High School Andrew Bramante

3103 LS 1 Improved Design and Field Verification of Varroa destructor Control with a Dual-function, Thymol-

Student(s) Raina Jain **Grade** 12 **Town** Riverside

- * PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- 1st Place HS- Plaque & \$800 Stipend to Compete at GENIUS Olympiad
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Innovative Concept Award - \$100
- * Jon Chapis Memorial Award --- John Chapis Spirit of Innovation Award - HS \$200
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Environmental Project

Greenwich Greenwich High School Andrew Bramante

6091 PS 1 Incorporation of TiO₂-Ag Nanostructures into LDPE Bags, to Create an Antifungal Plastic Wrap to Reduce Food Waste

Student(s) Alexandra Mark **Grade** 12 **Town** Greenwich

- * Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences Senior High Individual - \$200 & Plaque
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion

Greenwich Greenwich High School Andrew Bramante

6059 PS 1 Scale-up of Water-Splitting Hydrogen Production Using Piezo-Electrochemical Nanostructures and Ambient Processes

Student(s) Zachary Mester **Grade** 12 **Town** Cos Cob

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Applied Principles Award - \$100

Greenwich Greenwich High School Andrew Bramante

6072 PS 1 Creation of a CO₂-free Energy via a Solar-Powered Cu₂O Nanowire Microbial - Algae Photosynthetic Bioreactor

Student(s) Madeline Minichetti **Grade** 9 **Town** Greenwich

- * Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences Senior High Individual - Plaque
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * Constellation, an Exelon Company --- 1st: \$150.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy
- * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, high school, \$75 cash award

Greenwich Greenwich High School Andrew Bramante

3098 LS 2 Smartphone Detection of Cardiovascular Disease using Retinal Features of Fundus Photography

Student(s) Ella Moore **Grade** 10 **Town** Greenwich

- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology Senior High- plaque

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

Greenwich Greenwich High School Andrew Bramante
 3066 LS 2 Creation of a Rapid, Non-Invasive Diagnosis for Specific Learning Disorders via Fixation Tracking in Gaze Interaction

Student(s) Alexa Nakanishi **Grade** 10 **Town** Cos Cob

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

Greenwich Greenwich High School Andrew Bramante
 3024 LS 1 Plant Growth Enhancement & Fungal Disease Suppression via Copper and Zinc Nanoparticle Foliar Sprays

Student(s) Alexander Patti **Grade** 11 **Town** Bedford Hills

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

Greenwich Greenwich High School Andrew Bramante
 3094 LS 1 Carbon Nanowire Lab-on-Chip as a Rapid, Inexpensive, Lyme Disease Detection System

Student(s) Sofia Pronina **Grade** 11 **Town** Greenwich

* PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 * Applied Technology Awards --- Senior High Finalist - Medallion
 * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
 * Biophysical Society --- Biophysics Award- \$100

Greenwich Greenwich High School Andrew Bramante
 6086 PS 2 Development of Artificial Neural Networks That Can Process Acoustic Features in Order to Identify Toxic Speech Expressed Through Text

Student(s) Mark Razanau **Grade** 11 **Town** Cos Cob

* Connecticut Academy of Audiology --- \$200 Award HS- For Excellence in Audiology and Acoustics, opport. to shadow an audiologist

Greenwich Greenwich High School Andrew Bramante
 6066 PS 1 Development of a Superhydrophobic Coating for Vehicular Surfaces to Promote Spontaneous Water Droplet Trampolining, Repulsion, and Reduced Icing Tendencies at Normal Pressures

Student(s) Chiara Rissola **Grade** 11 **Town** Old Greenwich

* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
 * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR

Greenwich Greenwich High School Andrew Bramante
 3020 LS 1 Metal Oxide Nanoparticle Suppression of Coffee Rust Using a Alternaria, Stomata-

Student(s) Edgar Sosa **Grade** 11 **Town** Greenwich

* PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 * Environmental Sciences Awards with CACIWC --- 3rd Place HS- \$100, Plaque
 * Future Sustainability Awards --- 1st Place High School - Plaque & \$800 Stipend to Compete at GENIUS Olympiad
 * Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF
 * University of Hartford Scholarships --- University of Hartford Scholarship- For Excellence in Science or Mathematics \$27,000
 * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Future Sustainability

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

Greenwich Greenwich High School Andrew Bramante
 6035 PS 1 Enhancement of a Flow-Through, Solar Water Disinfection System using Combined UV/Riboflavin Photocatalytic Treatment

Student(s) Colin Speaker **Grade** 11 **Town** Greenwich

* Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & Plaque

Greenwich Greenwich High School Andrew Bramante
 6076 PS 2 Analyzing the Effects of Airflow on an Electrohydrodynamic Thrust Apparatus

Student(s) John Trahanas **Grade** 11 **Town** Riverside

Greenwich Greenwich High School Mr. Andrew Bramante
 3120 LS 1 Design of a Lateral-Flow, Species-specific Rapid Diagnostic Test for Malaria

Student(s) John Trudeau **Grade** 10 **Town** Greenwich

* PepsiCo / Pfizer Life Sciences Awards --- 5th Place- Life Sciences Senior High- Plaque
 * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 * Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- plaque

Greenwich Greenwich High School Andrew Bramante
 3127 LS 1 Discovery of a Novel Therapeutic Vulnerability in Pancreatic Ductal Adenocarcinoma via an Unbiased High-Throughput Drug Screen

Student(s) Melissa Woo **Grade** 12 **Town** Riverside

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

Greenwich Sacred Heart Greenwich Mary Musolino
 3122 LS 2 Testing the Optimum Delivery Method and Formula of Plant Probiotics and Probiotic Soil

Student(s) Alice Adams **Grade** 12 **Town** Greenwich

Greenwich Sacred Heart Greenwich Ms. Mary Musolino
 3113 LS 2 Music and Memory: The Ideal Dosage of Music for Improved Cognition and Quality of Life in Patients with Alzheimer's Disease and Dementia

Student(s) Caroline Badagliacca **Grade** 12 **Town** North Salem

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

Greenwich Sacred Heart Greenwich Mary Musolino
 3527 LST 2 Using DNA Barcoding to Detect Mislabeling in the Sushi Industry

Student(s) Claire Chmiel **Grade** 12 **Town** Harrison
 Lily DeConcini **Grade** 12 **Town** Harrison

Greenwich Sacred Heart Greenwich Mary Musolino
 3002 LS 2 Effect of Insurance Company Coverage on Access to Preferred Anti-Psoriatic Biologics: Results of a Retrospective Chart Review

Student(s) Alexa Choy **Grade** 12 **Town** Greenwich

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

Greenwich Sacred Heart Greenwich Mary Musolino
 3053 LS 2 Testing For the Presence of Antibiotics in Poultry
Student(s) Grace Coale **Grade** 11 **Town** Stamford

Greenwich Sacred Heart Greenwich Mrs. Musolino
 6523 PST 2 Studying the Benefits of Reinforcing Bioplastics with Silk Fibers
Student(s) Elle deAlessandrini **Grade** 12 **Town** Scarsdale
 Grayson Bennett **Grade** 12 **Town** Greenwich
 Sophia Curto **Grade** 12 **Town** Bronxville

Greenwich Sacred Heart Greenwich Mary Musolino
 6034 PS 3 The Effect of MGS-1 Mars Global Simulant Soil on the Growth Rates of Plants
Student(s) Piper Gilbert **Grade** 11 **Town** Greenwich

* Geology/Historic Project of Merit Award --- \$100 or 2 x \$50 - Earth Science - Field work with Geologic or historic value

Greenwich Sacred Heart Greenwich Mary Musolino
 3063 LS 3 Testing Natural and Synthetic Substances for Oil Spill Cleanup
Student(s) Zoe Kassapidis **Grade** 12 **Town** Greenwich

* Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- High School- \$150 / plaque
 * Future Sustainability Awards --- 2nd Place High School - \$300 Cash and Plaque
 * Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition

Greenwich Sacred Heart Greenwich Mary Musolino
 3503 LST 1 Using Microbiome Analysis to Determine the Effectiveness of a Unique Ceramic Water Filter
Student(s) Avery McCloskey **Grade** 12 **Town** Bronxville
 Kellie Ulmer **Grade** 12 **Town** Rye
 Gabriella DiBiase **Grade** 12 **Town** Greenwich

* PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion
 * Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition

Greenwich Sacred Heart Greenwich Mrs. Musolino
 3031 LS 2 Determining the Effect of Lipids on the Aggregation of Alpha-synuclein Protein to Prevent the Formation of Lewy Bodies in Parkinson's Diseases
Student(s) Grace Nemec **Grade** 12 **Town** Darien

Greenwich Sacred Heart Greenwich Mary Musolino
 3515 LST 1 The Effect of Construction on the Quality of Water in the Mianus River
Student(s) Isabella Rogers **Grade** 12 **Town** Cos Cob
 Cameron Calcano **Grade** 12 **Town** Greenwich

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

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

Greenwich Sacred Heart Greenwich Mary Musolino

6515 PST 2 Creating and Testing Novel Plant-Based Bioplastics for Strength and Biodegradability

Student(s)	Piper Van Wagenen	Grade 12	Town Darien
	Taylor O'Meara	Grade 12	Town Purchase
	Arielle Uygur	Grade 12	Town Greenwich

* John S. Kendall Memorial Awards --- \$500 John S. Kendall Award for Excellence In Mechanical Engineering - High School

Greenwich Sacred Heart Greenwich Mary Musolino

3040 LS 2 Using DNA Barcoding and Invertebrate Primers to detect Shellfish Contamination

Student(s)	Jennafer Washington	Grade 12	Town Norwalk
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Greenwich Sacred Heart Greenwich Mary Musolino

3533 LST 1 Using Nile Red Dye to test for the Presence of Microplastics in Bottled Water

Student(s)	Julia Welsh	Grade 12	Town Greenwich
	Erin O'Connor	Grade 12	Town Greenwich
	Renata Trevino	Grade 12	Town Stamford

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

Groton Sacred Heart School J. Pacheco

2025 L7 2 Explorations in Flower Freshness

Student(s)	Laura Johndreau	Grade 7	Town Groton
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Groton Sacred Heart School Dr. Juan Pacheco

5552 P8 2 Effect of Salt Concentration on the Rate of Electrolysis of Water

Student(s)	Eamonn Pelletier	Grade 8	Town GALES FERRY
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Guilford E.C. Adams Middle School Diane Stevens

4036 PT 2 WAZE to Evaluate Traffic: The Drive from Guilford to JFK

Student(s)	Jason Li	Grade 8	Town Guilford
	Eric Huang	Grade 7	Town Guilford
	William Cong	Grade 8	Town Guilford

* Mathematics Awards - with ATOMIC --- 2nd Place Middle School- \$100 from ATOMIC, and Trophy, \$200 from People's United Bank

Guilford Guilford High School Fangyong Li

6015 PS 3 The Academic Gender Gap in High School: Are Boys Being Left Behind?

Student(s)	Jerry Li	Grade 10	Town Guilford
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* Mu Alpha Theta --- Certificate, \$25 gift card given by CSEF

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Hamden	Sacred Heart Academy	Elizabeth Christophy	6099	PS	3	How does the amount of CO2 in car exhaust differ as the age of the car differs?		
			Student(s)		Chiamaka Alino	Grade 10	Town	Stratford
Hamden	Sacred Heart Academy	Dr. Sibani Sengupta	6018	PS	1	Oil Spill Management Using Plant Products		
			Student(s)		Mehr Chhatre	Grade 10	Town	Hamden
* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion								
Hamden	Sacred Heart Academy	Elizabeth Christophy	6023	PS	3	Household Solar Panel Array Cleaning Device		
			Student(s)		Julia DiAngelo	Grade 10	Town	Wallingford
Hamden	Sacred Heart Academy	Katherine Tubis	3110	LS	2	Trickling Triclosan		
			Student(s)		Maeve McConnell	Grade 9	Town	Branford
* Sister Mary Christine Life Sciences Award --- \$150 for excellence in the life sciences by a catholic high school project								
Hamden	Sacred Heart Academy	Kasia Tubis	6002	PS	3	A Better Way For Play		
			Student(s)		Alyssa Norton	Grade 9	Town	Seymour
Hartford	Environmental Sciences Magnet School	Mrs Hays	2012	L7	1	Now You Sea It		
			Student(s)		Isabella D'Agostino	Grade 7	Town	New Britain
* PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion								
* American Meteorological Society --- Certificate & \$25 gift card given by CSEF								
* Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF								
* Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt & cap, First Place Junior								
* Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash								
Hartford	Environmental Sciences Magnet School	Rebecca Hays	2028	L7	3	How stress affects you by your zodiac sign.		
			Student(s)		Kaloni Elliott	Grade 7	Town	Hartford
Hartford	Environmental Sciences Magnet School	Mrs. Hays	5548	P8	2	Microplastic Mania		
			Student(s)		Ava Hamilton	Grade 8	Town	Hartford
* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion								

Conn. Science & Engineering Fair

Winning Projects

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Hartford	Environmental Sciences Magnet School	Mrs. Hays	2506	L8	3	What's the Tea?		
Student(s) Prithvik Kalidasan							Grade 8	Town Rocky Hill
Hartford	Environmental Sciences Magnet School	ms. hays	2019	L7	2	Ocean Acidification VS. Mussel Filtration		
Student(s) Jaydalize London							Grade 7	Town Wethersfield
* American Meteorological Society --- Certificate & \$25 gift card given by CSEF								
Hartford	Environmental Sciences Magnet School	Mrs. Hays	2003	L7	3	Flat Water vs Carbonated Water		
Student(s) Millena Miranda							Grade 7	Town Wethersfield
Hartford	Environmental Sciences Magnet School	Ms.Hays	5009	P7	2	Sound to My Ears		
Student(s) Patroklos Pitsoulis							Grade 7	Town East Hartford
Hartford	Renzulli Academy	Foifon Teawdatwan	2002	L7	3	Rhythm of my Heart		
Student(s) Amanda Eneh							Grade 7	Town Windsor
Hartford	Renzulli Academy	Foifon Teawdatwan	5523	P8	3	A Laser's Journey		
Student(s) Angel Montero							Grade 8	Town Hartford
Hartford	Renzulli Academy	Foifon Teawdatwan	5502	P8	3	Crystal Creation		
Student(s) Alicia Singh							Grade 8	Town Hartford
Hartford	Renzulli Academy	Fon Teawdatwan	5002	P7	2	Preventing Heat Transfer to Keep a Liquid Hot or Cold		
Student(s) Evelyn Young							Grade 7	Town Middletown
Hartford	Watkinson School	Jean Kracke	3074	LS	2	Effect of Reproductive Maturity on Wing Loading in Spotted Lanternfly		
Student(s) Tyler Andrews							Grade 9	Town Torrington
* Banning Family Life Science Award --- For excellence in invasive species research, \$100 cash								

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Kensington	St. Paul School	Stacey Herbette	5003	P7	3	The Surface Effect		
Student(s) Riley Jachym							Grade 7	Town Middletown, CT
Kensington	St. Paul School	Stacey Herbette	5522	P8	2	Light Up Your World with a Rainbow of Fire		
Student(s) Julia Lawson							Grade 8	Town Plainville
Kensington	St. Paul School	Ms. Stacey Herbette	2525	L8	2	How Colorful Is Your Memory?		
Student(s) Rose Szeghy							Grade 8	Town Southington
Kent	Kent School	Sunny Kim	6055	PS	3	Microplastic: A Way to Collect and Reuse Microplastic		
Student(s) Da Hyun (Dianne) Choo							Grade 12	Town Kent
* Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related								
Kent	Kent School	Ben Nadire	6062	PS	2	The Effect of Crosslinking Agent and Media on Swelling Properties of Bulk Alginate Hydrogels		
Student(s) Cameron Erber							Grade 11	Town Ringwood
Kent	Kent School	Ben Nadire	6033	PS	3	Accounting for discrepancies in galaxy rotational curves using dark matter halo density profiles		
Student(s) Dagny Peters							Grade 11	Town Atlanta
* University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Frontiers in Science - Co-Op \$100 Gift Certificate								
Kent	Kent School	Dr. Nadire	6041	PS	3	Building a logistic system to sort packages based on volume or mass using computer programming and communication between sensors and computers		
Student(s) Claudia Shi							Grade 10	Town Kent
Kent	Kent School	Mr. Eric Houston	3081	LS	2	The Physiological Responses of Freshwater Organisms to Acid Rain: The Effects of Relapsing Acidity Changes on the Heart Rate of Daphnia magna		
Student(s) Zequn Song							Grade 10	Town Kent

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

Manchester East Catholic High School Lesa Milas

6093	PS	2	Biomimicry of Woodpecker Anatomy to Improve Helmet Design in Prevention of Chronic Traumatic Encephalopathy
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Student(s) John Oei **Grade** 11 **Town** Hebron

- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology Senior High- \$500 & plaque
- * Yale Science & Engineering Association, Inc. --- 1 Certificate, Medallion and 1- \$25 gift card given by CSEF
- * University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$80,000 (\$20,000 per year)
- * Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100

Manchester East Catholic High School Stella Thonakkaraparayil

6524	PST	2	Recycling of used wires using the liquid-phase heating method; efficient retrieval of copper and PVC making use of chemical solvents.
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Student(s) Moon-young Roh **Grade** 12 **Town** Manchester
 Yishu Wang **Grade** 12 **Town** Manchester

Manchester East Catholic High School Mrs. Thona

3518	LST	3	Effect of Temperature on the Speed of Metamorphosis in the Painted Lady Butterfly.
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Student(s) Farah Suede **Grade** 10 **Town** Glastonbury
 Katazryna Nolan **Grade** 10 **Town** Coventry
 Johnathan Green **Grade** 10 **Town** Vernon

Manchester Saint James School Mrs Mary J Plante

4040	PT	3	Does The Baseball Bat You Use Affect How You Hit?
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Student(s) Porter Breton **Grade** 7 **Town** Manchester
 Zachary Nyberg **Grade** 7 **Town** Manchester

- * Collins Aerospace Engineering Awards --- 3rd Place- Engineering MS \$100 & trophy and Invitation Compete in Broadcom MASTERS

Manchester Saint James School Mrs. Mary J Plante

5038	P7	3	Best Baked Cookies
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Student(s) Maya Fisher **Grade** 7 **Town** East Hartford

Meriden Thomas Edison Middle School Ms. Lombardi

4021	PT	2	Changing Core Material in Electromagnetism
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Student(s) Michael Alcott **Grade** 7 **Town** Meriden
 Elton Zheng **Grade** 7 **Town** Meriden
 Gabriel Manjoney **Grade** 7 **Town** Meriden

Conn. Science & Engineering Fair

Winning Projects

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

Meriden Thomas Edison Middle School Caitlin Lombardi

1001 LT 1 Sliding Soil

Student(s) Jacie Carrero **Grade 7** **Town** Meriden
 Faith Rose **Grade 7** **Town** Waterbury
 Grace Rose **Grade 7** **Town** Waterbury

* PepsiCo / Pfizer Life Sciences Awards --- 3rd Place- Life Sciences MS Team- trophy and Invite to Compete Broadcom MASTERS

Meriden Thomas Edison Middle School Caitlin Lombardi

4007 PT 2 A better way to generate power

Student(s) Josue Gallegos **Grade 7** **Town** meriden
 Adam Campbell **Grade 7** **Town** meriden

Meriden Thomas Edison Middle School Caitlin Lombardi

4039 PT 3 Construction Catastrophe!

Student(s) Michael Kline **Grade 7** **Town** Middletown
 Jacob Jones **Grade 7** **Town** Middletown

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

Middletown Vinal Technical High School Mr.Bowen

6521 PST 3 Renewable powered street light

Student(s) Joshua Comfort **Grade 10** **Town** Wallingford
 Jonathan Vasso **Grade 10** **Town** Middletown
 Matthew Bish **Grade 10** **Town** Wallingford

Middletown Vinal Technical High School Mr.Bowen

3508 LST 3 Water vending machine for the homeless

Student(s) Toby Donath **Grade 10** **Town** middletown
 Colin Lawrence **Grade 10** **Town** middletown

Middletown Xavier High School Nick Grasso

6032 PS 2 A Novel Computer-aided Cloud Type Classification Method Based on Convolutional Neural Network with Squeeze-and-Excitation

Student(s) Jason Li **Grade 10** **Town** Higganum

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

Milford Jonathan Law High School Bouchard

3083 LS 3 Testing how aloe vera affects the visible freshness of a fruit

Student(s) Mia Cerrato **Grade 11** **Town** Milford

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Milford	Jonathan Law High School	Christine Bouchard	3047	LS	3	Studies on the effects and trends on the breakdown of the components of the ozone layer caused by CFCs and other harmful substances		
			Student(s)		Meghana Cheela	Grade	11	Town Milford
Milford	Jonathan Law High School	Christine Bouchard	3097	LS	3	Studies on the various trends and reactions of cancer medications with regards to gene mutations to prevent undesirable side effects.		
			Student(s)		Sreeya Gudlavalleti	Grade	11	Town Milford
Milford	Jonathan Law High School	Christine Bouchard	3079	LS	3	The effect temperate will have on the enzymes responsible for protein breakdown in pineapples.		
			Student(s)		Brendan Liu	Grade	12	Town Milford
Milford	Jonathan Law High School	Christine Bouchard	3071	LS	3	How Does the Electromagnetic Field Change the Germination Rate of the Sansevieria Trifasciata?		
			Student(s)		Jennifer Liu	Grade	11	Town Milford
Milford	Jonathan Law High School	Christine Bouchard	6089	PS	3	The effect of prosthetics on animal rehabilitation		
			Student(s)		Alexis Rios	Grade	11	Town Milford
Milford	Jonathan Law High School	Christine Bouchard	3089	LS	2	Analyzing trends in Eastern Equine Encephalitis in order to understand why there are sudden outbreaks throughout the country.		
			Student(s)		Rachna Vipparla	Grade	11	Town Milford
* Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF * NYUC Pony Club Equine Award --- \$100 Cash Award or excellence in equine studies								
Milford	Lauralton Hall	Susan Cavar	3121	LS	3	How neuroplasticity effects the recovery of the paralysis of stroke victims and how it can improve the motor circuits of people with Parkisons disease		
			Student(s)		Anika Thite	Grade	10	Town Milford
Milford	Platt Technical High School	Jessica Stamp	6082	PS	3	Prosthetic Arm Design		
			Student(s)		Torelle Adebowale	Grade	11	Town Trumbull

Conn. Science & Engineering Fair

Winning Projects

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Milford	Platt Technical High School	Jessica Stamp	6048	PS	3	Augmented Reality Chemistry		
					Student(s)	Ethan Feldman	Grade 12	Town Milford
* Computer Science Awards --- 3rd Place High School- \$200, Plaque * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report								
Milford	Platt Technical High School	Jessica Stamp	6044	PS	3	The Application of Q-Learning in Flood Rescues		
					Student(s)	Joseph Moran	Grade 10	Town Bridgeport
New Canaan	St. Aloysius School	Deborah Phillips	5533	P8	2	Boundary Setting Tracker		
					Student(s)	Sofia Brauweiler	Grade 8	Town New Canaan
New Canaan	St. Aloysius School	Mrs. Deborah Phillips	5507	P8	3	Keep Your Own Score		
					Student(s)	Erin Lovett	Grade 8	Town Norwalk
New Canaan	St. Aloysius School	Mrs. Phillips	5020	P7	1	The relationship between Tree species and BTUs		
					Student(s)	Richard Marquis	Grade 7	Town Norwalk
* Lockheed Martin Physical Sciences Awards --- 5th Place- Physical Sciences 7th Grade Individual - trophy								
New Canaan	St. Aloysius School	Mrs. Deborah Phillips	1016	LT	3	It's Raining Acid		
					Student(s)	Bernadette McNamara	Grade 8	Town New Canaan
						Kelly Dunne	Grade 8	Town Stamford
* Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, air pollution related								
New Canaan	St. Aloysius School	Mrs. Phillips	4023	PT	3	Hydraulics Lift		
					Student(s)	Cailey Varas	Grade 7	Town Rowayton
						Emma Meyers	Grade 7	Town Darien
New Haven	Betsy Ross Arts Magnet School	Ms. Cichus	2519	L8	2	Road Salt vs. Alternative Ice Melters		
					Student(s)	Julia Murphy	Grade 8	Town Stratford

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

New Haven Celentano Magnet School Ashley Mulligan

4005	PT	2	Correlation Between Spice Used and Resulting pH	
Student(s)			Grade 8	Town New Haven
Brianna Gray			Grade 8	Town New Haven
Elaine Osei Bonsu			Grade 8	Town New Haven

New Haven Celentano Magnet School Ashley Mulligan

4020	PT	2	Comparison of the Effect of Thermal Conditions on the Potential of Carbonic Acid to Remove Rust	
Student(s)			Grade 8	Town New Haven
Trevon Green			Grade 8	Town New Haven
Duane Nixon			Grade 8	Town New Haven

New Haven Celentano Magnet School Ashley Mulligan

2026	L7	1	Correlation Between Fertilizer Use and Grass Growth	
Student(s)			Grade 7	Town New Haven
Nurializ Torres			Grade 7	Town New Haven

* PepsiCo / Pfizer Life Sciences Awards --- 4th Place- Life Sciences 7th grade- trophy and Invitation Compete in Broadcom MASTERS
 * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

New Haven Cooperative Arts and Humanities Magnet High Amanda Weires

6081	PS	3	Do Your Nostrils Taste?	
Student(s)			Grade 12	Town New Haven
Des'Tahnee Manick-Highsmith			Grade 12	Town New Haven

New Haven Hopkins School Phillip Stewart

3003	LS	2	Effect of Region of Interest Segmentation on Regional Analyses of Trabecular Bone Morphology	
Student(s)			Grade 11	Town Westport
David Zhou			Grade 11	Town Westport

New Haven Sound School Charles Mulligan

3088	LS	2	Potential of Ocean Acidification to Affect Physiology and Mortality of Marine Diatoms	
Student(s)			Grade 9	Town New Haven
Jahmani Agard			Grade 9	Town New Haven

* National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEFF

New Haven Sound School Charles Mulligan

3502	LST	2	Potential of Ocean Acidification to Interfere with Predator Prey Relationships of Coastal Invertebrates (Carcinus maenas).	
Student(s)			Grade 9	Town Hamden
Ruby Hoffman Blustajn			Grade 9	Town Hamden
Gabiella Spata			Grade 9	Town New Haven

* CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- 5th Place High School - Plaque, Medallion
 * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF

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

New Haven Sound School Charles Mulligan
 3107 LS 3 Comparison of the Impact of Elevated Levels of Medical Runoff (Acetaminophen) on Behavior and Mortality of Grass Shrimp
Student(s) Jace Williams **Grade 9** **Town** East Haven

New Haven St. Bernadette School Mr. Martens
 5505 P8 3 Whitening Egg-cellence: Which Toothpaste Whitens Teeth Best?
Student(s) Emilio Filppu **Grade 8** **Town** New Haven

New Haven St. Bernadette School Kerry Martens
 5014 P7 2 SlapShot
Student(s) Max Schroeder **Grade 7** **Town** North Branford

New Haven Wilbur Cross High School Nick Farrell
 3082 LS 2 Association of Music Perception and Memory
Student(s) Alexandra (or Sasha) Northrup **Grade 11** **Town** New Haven

New Haven Worthington Hooker Middle School Douglas Jones
 1004 LT 2 Soil Erosion
Student(s) Bella Brown **Grade 7** **Town** New Haven
 Sierra Miller **Grade 7** **Town** New Haven

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

New Haven Worthington Hooker Middle School Douglas Jones
 2517 L8 3 The Sweet Life Of Yeast
Student(s) Brandon Peterson **Grade 8** **Town** New Haven

New Haven Worthington Hooker Middle School Douglas Jones
 4028 PT 3 Fueling The Future
Student(s) Suki Sze **Grade 7** **Town** New Haven
 Saki Tomita **Grade 7** **Town** New Haven

New Haven Worthington Hooker Middle School Douglas Jones
 1017 LT 2 Fending off the Fast Fade of Flowers: What solution will keep YOUR flowers happy?
Student(s) Sophia Zhang **Grade 8** **Town** New Haven
 Keren Tan **Grade 8** **Town** New Haven

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

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
New London	Science and Technology Magnet High School	Isabela dos Santos	3510	LST	3	From Brown to Green: The Effect of Weather Conditions on Phytoremediation		
						Student(s) Giovanni Galatioto	Grade 11	Town New London
						Justin Lamoureux	Grade 11	Town New London
New London	Science and Technology Magnet High School	David Brown	6037	PS	2	The Effectiveness of Different Methods of Protection Against SQL Injection		
						Student(s) Krishveer Grewal	Grade 9	Town Waterford
New London	Science and Technology Magnet High School	Isabela Dos Santos	3042	LS	3	Alternative Natural Water Purifier		
						Student(s) Esoha Kadambaya	Grade 11	Town Norwich
								* U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF
New London	Science and Technology Magnet High School	Ms. Dos Santos	3523	LST	3	The Effect of Temperature on Lung Capacity		
						Student(s) Jay Patel	Grade 11	Town Norwich
						Jack Ashcom	Grade 11	Town Franklin
New London	Science and Technology Magnet High School	Amy Golden	3080	LS	3	Kelp-ing our Oceans: Sustainable Natural Biopolymer Alternatives for Plastic Utilized in Oyster Reef Restoration		
						Student(s) Sean Raymond	Grade 10	Town Mystic
								* Mystic Aquarium - Sea Research Foundation --- \$100 and 4 Admission Tickets to Mystic Aquarium
New London	Science and Technology Magnet High School	Mr.Brown	3532	LST	3	The effect of motor oil and surfactant on phytoplankton cell density		
						Student(s) Taina Smith	Grade 10	Town New London
						Natalia Ortiz	Grade 10	Town Groton
New London	Science and Technology Magnet High School	Karen Napilotano	3528	LST	3	Teeth Stain Removal with Manual Toothbrushes Vs. Electrical Toothbrushes		
						Student(s) Natalie Torres	Grade 10	Town New London
						Alisson Zelaya	Grade 10	Town New London
New Milford	Canterbury School	Mike Kennedy	3015	LS	2	A Novel Deep Learning Method for Autism Spectrum Disorder identification		
						Student(s) Dingkun Hong	Grade 11	Town New Milford

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

Newtown St. Rose of Lima School Valerie Petrillo
 2030 L7 2 Calcium's Effect on Bone Decay
Student(s) Lily Fagan **Grade 7** **Town** Newtown

Newtown St. Rose of Lima School Valerie Petrillo
 5026 P7 2 What Is The Most Efficient Way To Remove Rust?
Student(s) Mason McSwiggan **Grade 7** **Town** Woodbury

Newtown St. Rose of Lima School Mrs. Valerie Petrillo
 2013 L7 3 The Effect of Chlorine on Plant Growth
Student(s) Caleigh Prieto **Grade 7** **Town** Newtown

Norwich Norwich Technical High School Aleatha Pelloni
 3520 LST 1 The Effects of Alternating Red Wiggler Worms Gut Microbes to Degrade Lignin in Plants for Biofuels
Student(s) Jessie Adams **Grade 11** **Town** Killingly
 Ontasia Perry **Grade 11** **Town** Norwich

- * PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * The Goodwin-Niering Center for the Environment --- \$100 for "Excellence in Environmental Conservation Studies"

Norwich Norwich Technical High School Mrs. Pelloni
 3507 LST 3 Building a Space Neutral Hydroponics System for the Novice Gardener
Student(s) Haylie Burgess **Grade 11** **Town** Lisbon
 Angela Tsoukalas **Grade 11** **Town** New London

Norwich Norwich Technical High School Aleatha Pelloni
 3534 LST 1 The Effects of Dextrose on Drosophila melanogaster with fragile x
Student(s) Olivia Corrente **Grade 11** **Town** Plainfield
 Kevin Clark **Grade 11** **Town** Voluntown

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

Norwich Norwich Technical High School Aleatha Pelloni
 3525 LST 1 The Effects of Biochar on Plant Growth in a Large Scale Setting
Student(s) Max DeWolf **Grade 11** **Town** Canterbury
 Owen Blanchard **Grade 11** **Town** Scotland

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

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Norwich	Norwich Technical High School	Aleatha Pelloni	3504	LST	2	The effect of more aggressive B.T. strains on Tobacco Hornworms.		
						Student(s) Cristobar Hatfield-Mendez	Grade 11	Town Norwich
						Marley Marshall	Grade 11	Town New London
Norwich	Norwich Technical High School	Mrs. Pelloni	3516	LST	2	Finding Gluten Degrading Bacteria So People With Gluten Sensitivity Can Consume Gluten		
						Student(s) Lauryn Heft	Grade 11	Town Norwich
						Sade Velez	Grade 11	Town Oakdale
Norwich	Norwich Technical High School	Aleatha Pelloni	3512	LST	3	The Fireflies of The Sea		
						Student(s) Lorvelande Noblet	Grade 11	Town Norwich
						Jackson Reed	Grade 11	Town Lebanon
Norwich	Norwich Technical High School	Aleatha Pelloni	3529	LST	2	Testing the effect of Apis mellifera gut microbiome on honey production and immunity to Varroa destructor.		
						Student(s) Kyle Ruddock	Grade 11	Town Oakdale
						Zion Lear	Grade 11	Town Griswold
Orange	Southern Connecticut Hebrew Academy	Robyn Stewart	2016	L7	3	The Irony of Iron		
						Student(s) Chaya Wilhelm	Grade 7	Town Milford
* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF								
Pawcatuck	St. Michael School	Mrs. Anna-Helene Grossomanides	2029	L7	1	Showdown of the Sugars: The Effect of Sugar Substitutes on Yeast Growth		
						Student(s) Emerson Baltrukonis	Grade 7	Town Pawcatuck
* PepsiCo / Pfizer Life Sciences Awards --- 5rd Place- Life Sciences 7th grade- trophy * Sister Mary Christine Life Sciences Award --- \$100 for excellence in the life sciences by a catholic middle school project								
Pawcatuck	St. Michael School	Mrs. Anna-Helene Grossomanides	5534	P8	3	The Effect of Temperature and Humidity on Rubber Band Elasticity		
						Student(s) Rebecca Benin	Grade 8	Town Pawcatuck
Pawcatuck	St. Michael School	Mrs. Anna-Helene Grossomanides	5018	P7	2	Why is my Bedroom Cold?		
						Student(s) Katelyn Cadmus	Grade 7	Town Pawcatuck

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Pawcatuck	St. Michael School	Mrs. Anna-Helene Grossomanides	5528	P8	2	Oil vs. Filters; The Surprising Truth		
Student(s) Katie Danaher							Grade 8	Town Pawcatuck
Pawcatuck	St. Michael School	Mrs. Anna-Helene Grossomanides	5542	P8	3	The Brush Test		
Student(s) Matthew Drago							Grade 8	Town Pawcatuck
Pawcatuck	St. Michael School	Mrs. Grossomanides	5036	P7	3	Which household takes the longest to clean a mirror?		
Student(s) Gracelyn Smith							Grade 7	Town Pawcatuck
Pomfret	Pomfret School	Betty Bloch	3068	LS	3	Development delay in Craniosyntosis Syndrome		
Student(s) Minjoo Kim							Grade 10	Town New York
Redding	CT STEM Foundation	Mary Musolino	6065	PS	2	Evaluating the Effectiveness of Boron-Doped Graphene in Filtering Acetaminophen from Drinking Water		
Student(s) Malika Amoruso							Grade 12	Town Pleasantville
Redding	CT STEM Foundation	Catherine Piscitelli	6080	PS	3	Designing a Ground Collision Avoidance System to Inhibit Controlled Flight Into Terrain Accidents For Single Engine Aircraft		
Student(s) Mason Beaudette							Grade 10	Town Orange
* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR								
* American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate								
Redding	CT STEM Foundation	Nicholas Champ	3017	LS	2	Creating a Wearable Device that Reduces Stress by using Vibrational Pulses		
Student(s) Sheehan Munim							Grade 9	Town Orange
* TurnKey Compliance Solutions Environmental Awards --- \$300 Cash Award High School- For excellence in environmental sciences								
Redding	CT STEM Foundation	Mary Musolino	6531	PST	2	Testing an Activated Carbon Cloth to Reduce the Prevalence of Phosphates and Nitrates in the Long Island Sound		
Student(s) Annie O'Connor							Grade 10	Town Greenwich
Abby Barnett							Grade 10	Town Darien

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Redding	CT STEM Foundation	Catherine Piscitelli	3069	LS	2	Inter-Specific Competition Between Two Invasive Mosquito Species, Aedes aegypti and Aedes albopictus, over Multiple Generations		
					Student(s)	Jack Tajmajer	Grade	12
						Town	Naugatuck	
* Environmental Sciences Awards with CACIWC --- 2nd Place HS- \$200, Plaque								
Redding	Joel Barlow High School	Dr. Katherine Nuzzo	3029	LS	2	The Effect of Identification Software on the Ability to Recognize Harmful Algae Blooms		
					Student(s)	Eva Boyce	Grade	11
						Town	Easton	
* Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition								
Redding	Joel Barlow High School	Dr. Katherine Nuzzo	6022	PS	2	The viability of natural sunscreens as protection against UV degradation of exterior house paints		
					Student(s)	Leyli Ghavami	Grade	11
						Town	Easton	
Redding	Joel Barlow High School	Dr. Katherine Nuzzo	3005	LS	3	Arthrospira Platensis Ability to Absorb Lead Given Differing Ammonia Levels		
					Student(s)	Juliet Lam	Grade	11
						Town	Easton	
Redding	Joel Barlow High School	Dr. Katherine Nuzzo	3091	LS	3	Using ACC-Deaminase Produced by Fluorescent Pseudomonads to Reduce Saline Stress by Lowering Ethylene Levels in Basil Plants		
					Student(s)	Jake Lambrech	Grade	11
						Town	Redding	
Redding	Joel Barlow High School	Dr. Katherine Nuzzo	3115	LS	2	The Effect of Enzymes on The Biofilm of Staphylococcus Epidermidis.		
					Student(s)	Emily Larkin	Grade	11
						Town	Easton	
Redding	Joel Barlow High School	Dr. Katherine Nuzzo	6074	PS	3	Evaluation of the Efficacy of Deacidification Agents Applied to Lignocellulosic Paper Samples		
					Student(s)	Claudia Meyer	Grade	11
						Town	Redding	
Redding	Joel Barlow High School	Dr. Katherine Nuzzo	3058	LS	2	Assessing the Efficacy of Bacteriophage Preservation in Bacillus cereus Endospores		
					Student(s)	Kyle Murray	Grade	11
						Town	Redding	
Redding	Joel Barlow High School	Dr. Katherine Nuzzo	3105	LS	3	Applications of Coral Mucus Released by Acropora cervicornis in Collecting Microparticle Pollutants		
					Student(s)	Meghan Ogrinz	Grade	11
						Town	Easton	
* Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition								

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Redding	Joel Barlow High School	Dr. Katherine Nuzzo	6042	PS	3	Various Adhesives Ability to Prevent Corrosion and Malfunction of Printed Control Boards When Exposed to Extreme Moisture		
			Student(s)		Noah Simons	Grade	11	Town Easton
Redding	Joel Barlow High School	Dr. Katherine Nuzzo	3123	LS	3	Prevention of the Production of Saltwater Biofilms through the use of a Thermoplastic Elastomere		
			Student(s)		Tate Tower	Grade	11	Town Redding
Redding	Joel Barlow High School	Dr. Katherine Nuzzo	6078	PS	3	Designing and Programming a Robot that Collects Plastic from Various Bodies of Water		
			Student(s)		Kelly Weng	Grade	11	Town Easton
* Southeastern New England Marine Educators (SENEME) --- \$100 award and membership in SENEME - 1st Place Senior & T-Shirt								
Redding	Joel Barlow High School	Dr. Katherine Nuzzo	3009	LS	3	The Viability of Cefazolin and Vancomycin on Staphylococcus on the Basis of Their Use in Canines		
			Student(s)		Trevor Wilkes	Grade	11	Town Easton
Redding	Joel Barlow High School	Dr. Katherine Nuzzo	6061	PS	2	Use of Carbonic Anhydrase and Different Concentrations of Water for Carbon Dioxide Sequestration in Soil		
			Student(s)		Mitchell Worthington	Grade	11	Town Easton
Ridgefield	Ridgefield High School	Xiaodi Wang	6024	PS	2	Differentially Private M-band Wavelet-Based Mechanisms in Machine Learning Environments		
			Student(s)		Kenneth Choi	Grade	11	Town Ridgefield
* Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics								
Ridgefield	Ridgefield High School	Ryan Gleason	3521	LST	3	The Evolution of People Pleasing in Canis lupus irremotus in Comparison to the Canis lupus familiaris		
			Student(s)		Laura Jeniski	Grade	12	Town Ridgefield
			Savannah Bell			Grade	12	Town Ridgefield
* American Psychological Association --- Certificate, \$25 gift card given by CSEF								
Ridgefield	Ridgefield High School	Mr. Hughes	3531	LST	2	The Effect of Extracurricular Activities on Student Stress at School X		
			Student(s)		Bella Jureller	Grade	12	Town Ridgefield
			Arshdeep Sandhu			Grade	12	Town Ridgefield

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Ridgefield	Ridgefield High School	Patrick Hughes	3022	LS	3	Utilizing Habitat Suitability Indices for the Discovery and Protection of Endangered or Threatened Herpetology Based Species		
Student(s) Ethan MacKenzie							Grade 12	Town Ridgefield
Ridgefield	Ridgefield High School	Ryan Gleason	3064	LS	2	Determining the Optimal Age for Gonadectomy in Dogs		
Student(s) Rory McGrath							Grade 11	Town Ridgefield
Ridgefield	Ridgefield High School	Patrick Hughes	6057	PS	2	A Hybrid Machine Learning Model with Cost-Function Based Outlier Removal and Its Application on Credit Rating		
Student(s) Aurora Mu							Grade 12	Town Ridgefield
Ridgefield	Ridgefield High School	Patrick Hughes	6028	PS	3	Testing the Effectiveness of the Raspberry Pi Sense HAT in Comparison to a Traditional Weather Station		
Student(s) Christian Spallone							Grade 12	Town Ridgefield
Salisbury	Salisbury School	Tobias Ayer	3033	LS	2	Study of the Anti-Cancer and Anti- Mitotic Activities of Acetylcorynoline Purified from Corydalis longicalcarata Rhizomes		
Student(s) Chuck Wang							Grade 11	Town Salisbury
Shelton	Shelton High School	Mr. Kelley	3085	LS	2	Slide to Track Band		
Student(s) Katie Bergers							Grade 9	Town Shelton
* Applied Technology Awards --- Senior High Finalist - Medallion								
Shelton	Shelton High School	Lucia Dunham	3048	LS	3	Breathe Right With Plant Insight		
Student(s) Joseph Ciambriello							Grade 10	Town Shelton
Shelton	Shelton High School	Mary Clark	6514	PST	2	Child Bike Safety System		
Student(s) Joseph LaRue							Grade 12	Town Shelton
Kyle Young							Grade 12	Town Shelton

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Shelton	Shelton Intermediate School	Michelle Bonitatibus	4019	PT	2	Frosty Roads No More		
		Student(s)						
		Lillian Miller						Grade 7 Town Shelton
		Katie Nam						Grade 7 Town Shelton
Shelton	Shelton Intermediate School	Mr Yamnicky	1011	LT	3	Different Waters+Different Effects (Algae Water VS. Tap Water)		
		Student(s)						
		Anabelle Monaco-Belden						Grade 7 Town Shelton
		Krismar Cordoliani						Grade 7 Town Shelton
Shelton	Shelton Intermediate School	Tim Gilson	2528	L8	3	What's The Melting Point		
		Student(s)						
		Xiomara Pierre						Grade 8 Town Shelton
Simsbury	Westminster School	Peter Doucette	6073	PS	2	Biases in First and Second Moments of the Fourier Coefficients in One- and Two-Parameter Families of Elliptic Curves		
		Student(s)						
		Michelle(Jiefei) Wu						Grade 11 Town Simsbury
		<ul style="list-style-type: none"> * Mathematics Awards - with ATOMIC --- 1st Place High School- \$150 from ATOMIC, Plaque, \$500 from People's United Bank * Mu Alpha Theta --- Certificate, \$25 gift card given by CSEF * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics 						
Southington	Joseph A. Depaolo Middle School	Halime Agirman	2522	L8	2	Anti-Bacterial Packaging For Foods Sourced From Natural Bee Propolis		
		Student(s)						
		Zeynep Agirman						Grade 8 Town Southington
		<ul style="list-style-type: none"> * Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to Awards Night Dinner with guest * The Children's Museum --- 1 family 4-Pack of Admission Passes to the Children's Museum * U.S. Air Force --- Certificate & \$25 gift card from CSEF 						
Southington	Southington High School	John Duffy	6087	PS	3	The Power Saver		
		Student(s)						
		Aravind Bhamidipati						Grade 10 Town Southington
Stamford	Bi-Cultural Hebrew Academy	Chris Graseck	2008	L7	2	The Effect of Common Water Additives on Plant Perfusion		
		Student(s)						
		Evan Bilenker						Grade 7 Town Stamford

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Stamford	Bi-Cultural Hebrew Academy	Christian Grassek	1006	LT	2	The Effect of Magnetism on Plant Growth		
		Student(s)						
		Gidon Genger					Grade 7	Town New Canaan
		Aaron Rosovsky					Grade 7	Town Stamford
Stamford	Bi-Cultural Hebrew Academy	Mr. Christopher Graseck	1010	LT	2	"Sweet Seeds"		
		Student(s)						
		Maddie Winarsky					Grade 7	Town Stamford
		Sabrina Weisel					Grade 7	Town Stamford
		* Alexion Biotechnology Awards --- 5th Place- Biotechnology 7th grade- trophy						
Stamford	King School	Victoria Schulman	3041	LS	1	Classifying Subtypes of Renal Cell Carcinoma		
		Student(s)						
		Ryan Heaton					Grade 11	Town Pound Ridge
		* PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion						
		* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion						
Stamford	King School	Victoria Schulman	6001	PS	1	Temperature Dependence of the Electrochemical Conversion of Methane to Methanol		
		Student(s)						
		Samuel Hillenmeyer					Grade 11	Town Stamford
		* Lockheed Martin Physical Sciences Awards --- 5th Place- Physical Sciences Senior High Individual - Plaque						
Stamford	King School	Victoria Schulman	3086	LS	2	Body movement patterns are impacted by the ablation of layer-specific neurons in the motor cortex that project to motor neurons		
		Student(s)						
		Nadia Kucher					Grade 11	Town Stamford
Stamford	King School	Victoria Schulman	3065	LS	2	Iron-oxide nanoparticles as drug delivery agents for the treatment of pancreatic cancer		
		Student(s)						
		Wafa Nomani					Grade 11	Town Stamford
Stamford	King School	Victoria Schulman	3057	LS	2	Antimicrobial Peptides and Antibiotics Have Bactericidal and Bacteriostatic Effects on Wild-Type E. coli		
		Student(s)						
		Joseph Winterlich					Grade 11	Town Stamford
		* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion						
Stamford	Scofield Magnet Middle School	Julie Moyer	2521	L8	2	Effects of Magnesium Chloride on Water Quality		
		Student(s)						
		Aryan Pandalai					Grade 8	Town Stamford
		* CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion						
		* Future Sustainability Awards --- 1st Place Middle School - \$300 Cash and Trophy						

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Winning Projects

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Storrs	E.O. Smith High School	Cheryl Granger	6070	PS	2	Improving Wind Turbine Efficiency by Maximizing Surface Area and Decreasing Attack Angle		
			Student(s)		Mathew Chandy	Grade 11	Town	Storrs
* Constellation, an Exelon Company --- 2nd: \$100.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy								
Storrs	E.O. Smith High School	Dr. Cheryl Granger	3075	LS	3	Investigating how pH and Nitrate affects the Density of Chlamydomonas Reinhardi (+) and evaluating it through Statistical Analysis		
			Student(s)		Kanishk Tihaiya	Grade 9	Town	Storrs-Mansfield
Stratford	Saint Mark School	Mrs. Olins	2031	L7	3	The replication of food allergens on a hand from person to person		
			Student(s)		Shaelyn Averaimo	Grade 7	Town	Milford
* American Society of Safety Professionals, CT Valley Chapter --- \$100 grade 7-8 project								
Stratford	Saint Mark School	Lyn Olins	5550	P8	2	No Nitrates in the Housatonic?		
			Student(s)		Matteo Cono	Grade 8	Town	Milford
Stratford	Saint Mark School	Mrs. Olins	5039	P7	3	Liquid Density and Magnetism		
			Student(s)		David Hefferon	Grade 7	Town	Stratford
Stratford	Saint Mark School	Mrs. Olins	2511	L8	3	A Big Fan Of Turbines		
			Student(s)		Julia Lacasse	Grade 8	Town	Stratford
Stratford	Saint Mark School	Lynn Olins	1012	LT	2	Egg-xtraordinary Brine Shrimp		
			Student(s)		Shannon Maconochie	Grade 8	Town	Stratford
			Student(s)		Isabella tiberi	Grade 8	Town	Stamford
Stratford	Saint Mark School	Mrs. Olins	1008	LT	2	Sniffing Science		
			Student(s)		Olivia Szczerba	Grade 7	Town	Stratford
			Student(s)		Sydney Lombard	Grade 7	Town	Stratford

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Suffield	Suffield Academy	Paul Caginalp	6030	PS	2	Increasing the efficiency of a household methane gas recovery system as a reliable energy source in rural Guatemala		
			Student(s)		Jina Lee	Grade	10	Town Suffield
* Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Plaque								
Suffield	Suffield High School	Ms.Brown	6526	PST	2	How can we use rotating wind and water turbines alongside solar panels in order to passively and actively collect energy?		
			Student(s)		Hassan Aljafar	Grade	10	Town Suffield
					Aarya Vasantlal	Grade	10	Town Suffield
					Avie Vasantlal	Grade	10	Town Suffield
Suffield	Suffield High School	Melanie Brown	6056	PS	3	How will climate change affect the ecosystems of Connecticut		
			Student(s)		Oliver Kelsey	Grade	10	Town Windsor Locks
* American Meteorological Society --- Certificate & \$25 gift card given by CSEF								
Suffield	Suffield High School	Melaine Brown	3006	LS	3	Challenging the Belief of One Cerebral Hemisphere Dominating the Other in Specific Daily Functions		
			Student(s)		Laila Lawson	Grade	11	Town West Suffield
Suffield	Suffield High School	Melanie Brown	6009	PS	2	Using Bio-metric Artificial Intelligence to Identify Physical Symptoms of Common Skin Conditions		
			Student(s)		Ayush Mehta	Grade	10	Town Suffield
Suffield	Suffield High School	Melanie Brown	6090	PS	3	How do different building foundations react to liquefaction?		
			Student(s)		Jack Shanks	Grade	10	Town Suffield
Suffield	Suffield High School	Melanie Brown	6020	PS	3	Calculating An Individual's Economic Cost of Solar Panels Based On Consumer Input		
			Student(s)		Haley Young	Grade	11	Town West Suffield
Suffield	Suffield Middle School	Melanie Brown	5546	P8	3	Carbon Emission: Calculate and Reduce		
			Student(s)		Joseph Colangelo	Grade	8	Town Suffield
* U.S. Air Force --- Certificate & \$25 gift card from CSEF								

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Trumbull	Christian Heritage School	Mr. Daniel Cote	3004	LS	2	Increased Prevalence of Gastrointestinal, Cardiovascular, and Immunologic Conditions in Hospitalized Patients with Ehlers-Danlos Syndrome: A Case-Control Study		
		Student(s) Rachel Brooks					Grade 11	Town Trumbull
Trumbull	Christian Heritage School	Mr. Dan Cote	5545	P8	3	PH Testing of River, Tap, Well and Bottled Water		
		Student(s) Jade Deus					Grade 8	Town Shelton
								* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
Trumbull	Christian Heritage School	Daniel Cote	5525	P8	3	Relationship between Viscosity and Saturated Fat in cooking oils		
		Student(s) Sofia Khan					Grade 8	Town Stratford
								* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
Trumbull	Christian Heritage School	Daniel Cote	6045	PS	3	Design of a Novel Carbon Free Power Generation Source Capable of Capturing Wind Energy		
		Student(s) Lauren Marshall					Grade 11	Town Stratford
								* University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$80,000 (\$20,000 per year)
Trumbull	Christian Heritage School	Daniel Cote	3044	LS	2	Production of Biodegradable, Sustainable Plastic from Food Waste through the Polymerization of Lactic Acid		
		Student(s) Andrea Piraneque					Grade 11	Town Trumbull
								* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
Trumbull	Christian Heritage School	Daniel Cote	5517	P8	2	Design and Fabrication of a Drone for Emergency and Medical Applications		
		Student(s) William Raines					Grade 8	Town Hamden
Trumbull	Christian Heritage School	Daniel Cote	3019	LS	3	Building a Biosphere		
		Student(s) Pria Williams					Grade 11	Town Trumbull
								* Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF * National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF
Wallingford	Choate Rosemary Hall	Jan Cook	3126	LS	2	Effects of Ziziphus jujuba and Brief Mindfulness on Cellular and Adolescent Stress		
		Student(s) Hyunseo Kim					Grade 12	Town Meriden

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

Wallingford Choate Rosemary Hall Dr. Michael H. Nathanson
 3021 LS 2 Role of type 3 inositol 1,4,5-trisphosphate calcium receptor gene demethylation in pathogenesis of cholangiocarcinoma
Student(s) Anjali Mangla **Grade** 12 **Town** Cheshire

Washington Rumsey Hall Liz Butler
 2512 L8 1 A Heart Rate Monitor to Predict Autistic Meltdowns
Student(s) Junting Wang **Grade** 8 **Town** Washington Depot

- * PepsiCo / Pfizer Life Sciences Awards --- 5th Place- Life Sciences 8th grade- trophy
- * Computer Science Awards --- 3rd Place Middle School- \$100, Trophy
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * Robotics And Beyond --- Middle School- For excellence in engineering design; \$200 toward Robotics And Beyond STEM and Design summer camp, \$50 cash if cannot attend camp. Certificate.

Waterbury Our Lady of Mount Carmel School Tricia Ann Vertuccio
 5555 P8 3 Capillary Action in Action
Student(s) Luke Reilly **Grade** 8 **Town** Naugatuck

Watertown The Taft School David Hostage
 6092 PS 2 A Rapid and Sensitive Method for the Determination of Sulfonamides in Water Samples: Combination of Monolith Based Extraction with Liquid Chromatography-Mass Spectrometry Analysis
Student(s) Yixin Zhang **Grade** 11 **Town** Beijing

West Hartford Kingswood Oxford School Josh Garrison
 5027 P7 3 Communicaider App
Student(s) Evan Poole **Grade** 7 **Town** Farmington

- * Applied Technology Awards --- 3rd Place Middle School - \$100 and Trophy, Medallion
- * Computer Science Awards --- 2nd Place Middle School - \$200, Trophy
- * Connecticut Academy of Audiology --- \$200 Award MS- For Excellence in Audiology and Acoustics, oport. to shadow an audiologist

West Hartford Kingswood Oxford School Josh Garrison
 5040 P7 3 Low-cost golf swing analysis to minimize injury based on analyzing motion images/videos using software
Student(s) Ryan Wang **Grade** 7 **Town** Unionville

- * Wisner Award --- Wisner Award for Innovation-- \$350 cash
- * Samantha Freeman Award for Excellence in Sports Science or Engineering --- For Excellence in Sports Science or Engineering by a Middle School student, \$100 cash

West Hartford St. Brigid-St. Augustine Partnership School Mitchell Hamilton
 5520 P8 2 Ultraviolet Light: How Harmful Are You?
Student(s) Kaylana Caguila **Grade** 8 **Town** West Hartford

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

West Hartford St. Brigid-St. Augustine Partnership School Mitchell Hamilton
 5553 P8 3 How is Capillary Action important in your life?
Student(s) Melany Marquez **Grade 8** **Town Hartford**

West Hartford William H. Hall High School Mr. Norman Burtness
 6012 PS 2 Multi-Wavelength Identification of Black Hole Candidates in the M13 Globular Cluster
Student(s) Ashley Granquist **Grade 12** **Town West Hartford**

* Connecticut College-Physics, Astronomy, & Geophysics Dept. --- \$150 and Certificate, Senior Physics & T-shirt

West Haven Engineering and Science University Magnet School Roger Rushworth
 6060 PS 2 The Effect of Axial Tilt of Hyperboloidal Gears on Mechanical Efficiency
Student(s) Aiman-Imran Anuar **Grade 10** **Town West Haven**

* CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion
 * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
 * Connecticut Association of Physics Teachers --- \$100 Senior project

West Haven Engineering and Science University Magnet School Roger Rushworth
 3125 LS 1 Comparative Analysis of the Mitigation and Emissions Rates of Volatile-Organic Compounds in Various Ornamental Plants Using a Monitored Environment
Student(s) Patricia Joseph **Grade 10** **Town Hamden**

* PepsiCo / Pfizer Life Sciences Awards --- 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

West Haven Engineering and Science University Magnet School Roger Rushworth
 2007 L7 1 Effectiveness of the Organic Polymers for Removing Microplastic in an Aqueous Solution
Student(s) Snigtha Mohanraj **Grade 7** **Town Ansonia**

* PepsiCo / Pfizer Life Sciences Awards --- 1st Place- Life Sciences 7th grade- \$200 & trophy and Invitation to Compete Broadcom MASTERS
 * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- 1st Place Middle School - \$300 and Trophy, Medallion
 * Environmental Sciences Awards with CACIWC --- 1st Place MS - \$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 --- 1st Place- Biotechnology 7th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS
 * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
 * Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF
 * Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to Awards Night Dinner with guest
 * J.A. Augustine Award --- \$100 for excellence in biology
 * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp
 * TurnKey Compliance Solutions Environmental Awards --- \$200 Cash Award Middle School- For excellence in environmental sciences
 * Broadcom MASTERS --- The Lemelson Early Inventor Prize

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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West Haven	Engineering and Science University Magnet School	Roger Rushworth	3506	LST	1	Biomarker model for cancer: Novel approach to correlate the ratio of reduced and oxidized glutathione, and immune cells		
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Student(s)	Ray Nassar	Grade 9	Town	Milford
	Praneeth Chitralia	Grade 9	Town	Milford

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

West Haven	Engineering and Science University Magnet School	Roger Rush worth	1020	LT	1	How different genres of Music affect focus and memory.		
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Student(s)	Henry Rugemer	Grade 8	Town	New Haven
	jack jessen	Grade 8	Town	New haven

* PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion

West Haven	Engineering and Science University Magnet School	Roger Rushworth	3524	LST	2	The influence of reading comprehension and manuscription ability correlative to public speaking performances		
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Student(s)	Maryam Shabazz	Grade 10	Town	west haven
	Kawtar Nadama	Grade 10	Town	west haven

Westbrook	Westbrook High School	Zebrowski	6085	PS	2	Variation of the Ondes Martenot		
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Student(s)	Michael Cox	Grade 11	Town	Westbrook
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Westbrook	Westbrook High School	Joseph Zebrowski	6101	PS	3	Solar Panels and attempting to convert square to sine waves		
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Student(s)	Emma Demers	Grade 10	Town	Westbrook
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Westport	Greens Farms Academy	Modupe Oshin	2022	L7	2	My Plastic Place		
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Student(s)	Sahana Bettogowda	Grade 7	Town	Wilton
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Westport	Greens Farms Academy	Modupe Oshin	2027	L7	2	Testing The Affect of Pesticide Use on the Water Supply in Connecticut Versus Massachusetts		
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Student(s)	Phoebe Bryan	Grade 7	Town	Darien
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Westport	Greens Farms Academy	Mathieu Freeman	3036	LS	1	Impacts of Blue Light on the Eye Structure and Brain Activity of Drosophila Melanogaster		
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Student(s)	Ava Ewing	Grade 12	Town	Darien
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* PepsiCo / Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High- \$300 & Plaque

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

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

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

Westport Greens Farms Academy Mathieu Freeman
 3054 LS 2 Efficiency of Natural Anti-depressants in comparison to Prescribed SSRIs on Drosophila Melanogaster
Student(s) Margot Goldsmith **Grade 12** **Town** Darien

Westport Greens Farms Academy Modupe Oshin
 2001 L7 3 Natural filter
Student(s) Benjamin Grimm **Grade 7** **Town** Westport

Westport Greens Farms Academy Madupe Oshin
 5037 P7 3 An automated solution to stove fire accidents that is built in with the stove.
Student(s) Jordan Moss **Grade 7** **Town** Fairfield

Westport Greens Farms Academy Modupe Oshin
 5029 P7 3 Building with Bones
Student(s) Ahmad Niass **Grade 7** **Town** Fairfield

Westport Greens Farms Academy Mrs. Modupe Oshin
 5512 P8 1 Water Filter and Water Turbine
Student(s) Jakob Zapanta **Grade 8** **Town** Bridgeport

- * Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & trophy, invite to compete Broadcom MASTERS
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF

Wilton Middlebrook Middle School Paige Randall
 5022 P7 3 Voice To Text Handwriting Replicator
Student(s) Zachary Coleman **Grade 7** **Town** Wilton

- * Applied Technology Awards --- Middle School Finalist - Medallion

Wilton Middlebrook Middle School Mrs. Mallozzi
 4013 PT 3 Alternative Techniques for the Chemical Purification of Water.
Student(s) Saaransh Khandelwal **Grade 8** **Town** Wilton
 Arjun Patel **Grade 8** **Town** Wilton

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

Wilton Middlebrook Middle School Ms. Garcia

1014 LT 1 Effects of Fertilizer on Algae Growth

Student(s) Illeas Paschalidis **Grade 8** **Town** Wilton
 Shawn Gregory **Grade 8** **Town** Wilton

- * PepsiCo / Pfizer Life Sciences Awards --- 1st Place- Life Sciences MS Team- \$100 each & trophy and Invite to Compete Broadcom MASTERS
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology 8th grade- trophy and Invitation Compete in Broadcom MASTERS

Wilton Middlebrook Middle School Debbie Mallozzi

5518 P8 1 Heart Safe

Student(s) Anup Pilla **Grade 8** **Town** Wilton

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology 8th grade- \$100 & trophy and Invitation Compete in Broadcom MASTERS

Windsor Academy of Aerospace & Engineering Dr. Michelle Bellinger

6016 PS 2 Optimization of Energy Storage of Capacitors with Hydrogel Electrolyte

Student(s) Emily Ngo **Grade 12** **Town** South Windsor

- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion
- * Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Physical Sciences

Windsor Academy of Aerospace and Engineering Dr. Bellinger

6501 PST 3 Effects of an Electromagnetic Field on the Growth and Structure of Different Crystals

Student(s) Francisca Barria **Grade 10** **Town** Hartford
 Sai Kota **Grade 10** **Town** Ellington

- * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- 1st Place High School - \$500 and Plaque, Medallion
- * H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering --- \$500 to 1st HS Urban School Challenge Science Department for Equipment/Supplies

Windsor Academy of Aerospace and Engineering Michelle Bellinger

6517 PST 1 Cyber Attack Identification in the Electric Power Grid by Anomaly Detection

Student(s) Trevor Brunette **Grade 12** **Town** Glastonbury
 Christopher Reed **Grade 12** **Town** Enfield

- * Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences Senior High Team- \$500 (split) & Plaque
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * 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)

Windsor Academy of Aerospace and Engineering Dr. Bellinger
 4001 PT 1 Transforming Ocean Wave Energy to Electrical Energy

Student(s) **Sujay Chava** **Grade 7** **Town** Ellington
Atul Shreyas Konda **Grade 7** **Town** Cromwell

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
- * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- 4th Place Middle School - Trophy, Medallion
- * Collins Aerospace Engineering Awards --- 1st Place- Engineering Middle School- \$400 & trophy and Invitation Compete in Broadcom MASTERS
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Connecticut Invention Convention “Next Step Inventors” --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

Windsor Academy of Aerospace and Engineering Dr. Bellinger
 4017 PT 2 Factors influencing crystal growth.

Student(s) **Laasya Chintapalli** **Grade 7** **Town** Middletown
Saanvi Talanki **Grade 7** **Town** South Windsor

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

Windsor Academy of Aerospace and Engineering Dr. Aramli
 3026 LS 1 The effect of grafting on the sugar content of cherry tomatoes.

Student(s) **Kayla Flint** **Grade 11** **Town** Ellington

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

Windsor Academy of Aerospace and Engineering Dr. Bellinger
 6528 PST 2 Let's Shed Some Light!

Student(s) **Passyon Grange** **Grade 10** **Town** Hartford
Emily Santiago **Grade 10** **Town** East Hartford

Windsor Academy of Aerospace and Engineering Dr. Michelle Bellinger
 6007 PS 2 Monitoring Infant Vital Signs Through a Car Seat Embedded Piezoelectric Sensor Network

Student(s) **Gianna Guzzo** **Grade 12** **Town** Suffield

- * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- 3rd Place High School - \$ 300 and Plaque, Medallion
- * Applied Technology Awards --- 2nd Place High School - \$300 and Plaque Medallion
- * American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 9-12 project
- * IEEE, Connecticut Section --- \$250 Honors Award -Senior
- * Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100
- * Connecticut Invention Convention “Next Step Inventors” --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Windsor	Academy of Aerospace and Engineering	Michelle, Bellinger	4033	PT	1	Effect of Bamboo, plastic on the strength of concrete		
Student(s)					Rawan Ibrahim	Grade 7	Town Bristol	
					Vikram Haran	Grade 12	Town Ellington	

- * Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
- * ASM Materials Education Foundation --- Certificate & \$25 gift card given by CSEF
- * CT Architecture Foundation - The William M. Mack, AIA Award --- \$250 Gift Certificate to Barnes and Noble from the Connecticut Architecture Foundation, William M. Mack, AIA Award.

Windsor	Academy of Aerospace and Engineering	Dr.Aramli	3505	LST	2	The Effects of CLA, Safflower Oil, and Oleic Acid on Breast Cancer Cells		
Student(s)					Elizabeth Keegan	Grade 11	Town Wethersfield	
					D'Andre Lucy	Grade 11	Town Hartford	
					Ava King	Grade 11	Town Enfield	

Windsor	Academy of Aerospace and Engineering	Dr. Michelle Bellinger	6049	PS	2	Subtractive Manufacturing Techniques for Preparing Inexpensive Thermoplastic Microlens Arrays		
Student(s)					Andrea Lacunza	Grade 12	Town Avon	

- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report

Windsor	Academy of Aerospace and Engineering	Lili Aramli	3118	LS	3	Limiting the Growth of Cancerous Cells With Vitamin B12 and CBD Oil		
Student(s)					Corrin Pruitt	Grade 12	Town New Hartford	

Windsor	Academy of Aerospace and Engineering	Dr. Bellinger	5526	P8	2	Harvesting Energy From Rainwater With An Archimedean Screw.		
Student(s)					Ronak Ramesh	Grade 8	Town Middletown	

- * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- 5th Place Middle School - Trophy, Medallion
- * Alternative/Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * Constellation, an Exelon Company --- 1st: \$100.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
- * Connecticut Science Supervisors Association --- \$125 for a middle school project
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

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

Windsor Academy of Aerospace and Engineering Dr. Michelle Bellinger

6509	PST	1	Optimization of Energy Production through Active Augmentation of Hydro-Turbine Body and Blade Design.
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Student(s)	Avaneesh Sathish	Grade 12	Town South Windsor
	Nikhlesh Sivakumar	Grade 12	Town Rocky Hill

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Team- \$300(split) & Plaque
- * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- 2nd Place High School - \$400 and Plaque, Medallion
- * Applied Technology Awards --- 3rd Place High School - \$ 200 and Plaque, Medallion
- * GENIUS Olympiad --- GENIUS Olympiad Competition for HS Environmental, Energy, Ecology, or Biodiversity Project
- * Connecticut Invention Convention “Next Step Inventors” --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

Windsor Academy of Aerospace and Engineering Lili Aramli

3056	LS	3	Bioremediation using Fungi
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Student(s)	Ajay Sharma	Grade 12	Town Windsor Locks
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Windsor Madina Academy Timothy Coleman

2503	L8	2	The Effects of Three Macro-nutrients on the Reaction Time of Human Subjects.
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Student(s)	Ismael Shelbaya	Grade 8	Town South Windsor
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- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * Jon Chapis Memorial Award --- John Chapis Spirit of Innovation Award - MS \$100

Windsor Madina Academy Mr. Timothy Coleman

5023	P7	1	Developing a Novel Eco-Friendly System that Recovers Wasted Thermal and Kinetic Energy From a Dryer Exhaust
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Student(s)	Tasneem Zoghol	Grade 7	Town Enfield
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- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- * Demos R Us Award --- \$150 Cash Award-- Clear Execution of Research- 7th Grade

Windsor Madina Academy Mr. Timothy Coleman

6525	PST	3	Saving The Environment One Drop of Water at a Time: Integrating Charcoal Into Plant Soil to Lengthen the Time Span of Plant Watering and Help Conserve Water and Prevent Droughts
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Student(s)	Ahmad Zoghol	Grade 9	Town Enfield
	Amer Kabatilo	Grade 9	Town Windsor
	Zain Kabatilo	Grade 9	Town Windsor

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Windsor	The Loomis Chaffee School	Koby Osei-Mensah	6084	PS	3	RandGAN: Testing the Limits of Small Neural Networks		
			Student(s)		Aresh Pourkavoos	Grade 11	Town	Avon
<ul style="list-style-type: none"> * Mathematics Awards - with ATOMIC --- 2nd Place High School- \$100 from ATOMIC, Plaque, \$300 from People's United Bank * Applied Technology Awards --- Senior High Finalist - Medallion * Computer Science Awards --- 2nd Place High School - \$300, Plaque * Mu Alpha Theta --- Certificate, \$25 gift card given by CSEF 								
Windsor	The Loomis Chaffee School	Koby Osei-Mensah	3102	LS	3	Novel Wound Dressing Facilitates Rapid Detection of Infections		
			Student(s)		Mitali Vedula	Grade 11	Town	Windsor
* Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a High School student, \$200 cash								
Woodbridge	Amity Regional High School	Catherine Piscitelli	3530	LST	2	Computational Design of Competitive Inhibitors of the Alcohol Dehydrogenase Enzyme		
			Student(s)		Jeremy Bachman	Grade 12	Town	Orange
					Daniel Li	Grade 12	Town	Orange
Woodbridge	Amity Regional High School	Catherine Piscitelli	6043	PS	3	Development of A Serious Game for Flood Mitigation: Game Engine Development		
			Student(s)		Joshua Feuerstein	Grade 11	Town	Woodbridge
Woodbridge	Amity Regional High School	Catherine Piscitelli	6014	PS	2	Investigation of the Mechanism of Epoxide Synthesis by Mesoporous Manganese-Promoted Cerium Oxide Catalysts by Reactive Oxygen Species Detection		
			Student(s)		Evan Hollander	Grade 12	Town	Orange
Woodbridge	Amity Regional High School	Catherine Piscitelli	6067	PS	2	Developing Advanced Black Hydrogels for Solar-Thermal Desalination		
			Student(s)		Danielle Lee	Grade 12	Town	Orange
Woodbridge	Amity Regional High School	Catherine Piscitelli	6512	PST	2	Optimizing the Design of the Lateral Reconstruction Nail with the use of Finite Element Analysis in Order to Improve the Healing Process of Subtrochanteric Femur Fractures		
			Student(s)		Sean Lee	Grade 12	Town	Bethany
					David Sugarmann	Grade 12	Town	Woodbridge
Woodbridge	Amity Regional High School	Catherine Piscitelli	6088	PS	3	Developing and Testing a 3D Printed Structure for Use as a Sea Ice Substitute		
			Student(s)		Philip London	Grade 11	Town	Orange

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

Woodbridge Amity Regional High School Mrs. Catherine Piscitelli
 3101 LS 2 Using Pure and Copper-doped Zeolite Catalysts to Degrade Lignin Polymers into Biofuel
Student(s) Raymond Lu **Grade 12** **Town Orange**

* Alternative/Renewable Energy Awards --- 2nd Place High School - \$300 Cash and Plaque

Woodbridge Amity Regional High School Catherine Piscitelli
 6010 PS 2 Using Protein Core Density to Predict Model Accuracy
Student(s) Tracy Lu **Grade 12** **Town Woodbridge**

Woodbridge Amity Regional High School Catherine Piscitelli
 6058 PS 3 Creating and Testing Different Designs of Titanium Dioxide Films in Perovskite Solar Cells in Order to Increase Efficiency
Student(s) Arnav Paliwal **Grade 11** **Town Woodbridge**

Woodbridge Amity Regional High School Catherine Piscitelli
 3116 LS 2 The Influence of Light and Branch Diameter Size on Ash Tree and Emerald Ash Borer (Agrilus Planipennis) Larvae Performance
Student(s) Akanksha Paul **Grade 12** **Town Bethany**

Woodbridge Amity Regional High School Catherine Piscitelli
 3090 LS 3 Optimizing THP-1 Differentiation to Analyze the Role of CFTR deficiency on THP-1 Macrophage Polarization to Establish a Model System
Student(s) Siavash Raissi **Grade 12** **Town Woodbridge**

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

Woodbridge Amity Regional High School Catherine Piscitelli
 6094 PS 3 Designing a Math Application to Increase Students' Understanding of Mathematics
Student(s) Peter Scully **Grade 11** **Town Bethany**

Woodbridge Amity Regional High School Catherine Piscitelli
 6036 PS 1 Using an Automated Coating System to Optimize Nitric Oxide Release Patterns of Antibacterial Catheters
Student(s) Abigail Slanski **Grade 12** **Town Woodbridge**

* Lockheed Martin Physical Sciences Awards --- 1st Place - Physical Sciences Senior High Individual - \$500 & Plaque
 * 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

Woodbridge Amity Regional High School Catherine Piscitelli
 6100 PS 2 Creating and Implementing a Model that Predicts Concentrations of the Air Pollutant NO₂ in Springfield, Massachusetts
Student(s) Allison Su **Grade 11** **Town Woodbridge**

* Arthur & Ruth Mensing Award --- Mensing Award Excellence in the Physical Sciences - \$500

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

6025	PS	2	Optimization of a Real-Time Sinkhole Detection System Using Localization Methodology, Machine Learning Algorithms, and Limestone Dissolution Modeling					
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Student(s) Sophia Wang **Grade** 12 **Town** Woodbridge

- * Connecticut Science Supervisors Association --- \$125 for a high school project
- * Geology/Historic Project of Merit Award --- \$100 or 2 x \$50 - Earth Science - Field work with Geologic or historic value

Woodbridge Amity Regional High School Catherine Piscitelli

3070	LS	1	Analyzing the Role of Sonic Hedgehog Signaling in Germinal Center B-Cell Differentiation					
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Student(s) Wendy Zhang **Grade** 11 **Town** Woodbridge

- * PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF
- * University of Hartford Scholarships --- University of Hartford Scholarship- For Excellence in Science or Mathematics \$27,000