



Connecticut Science & Engineering Fair

Quinnipiac University

March 11 - 16, 2019

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)
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Avon	Talcott Mountain Academy	Brigette Zacharczenko	2520	L8	1	Defensive Behavior of Tobacco Hornworm Caterpillars		
			Student(s)		Tyler Andrews	Grade 8	Town	Torrington

- * The Jackson Laboratory Life Sciences Awards --- 2nd Place- Life Sciences 8th grade- \$200 & trophy and Invite to Compete Broadcom MASTERS
- * J.A. Augustine Award --- \$100 for excellence in biology
- * Henderson Award --- Certificate and \$25 Amazon Gift Card given by CSF

Avon	Talcott Mountain Academy	Bridgette Zacharczenko	2006	L7	3	What is the ideal salinity for freshwater insects?		
			Student(s)		Michael Hoffman	Grade 7	Town	Windsor

Avon	Talcott Mountain Academy	Dr. Zacharczenko	2018	L7	3	Placebo: The Power of the Mind		
			Student(s)		Derrick Li	Grade 7	Town	Southington

Avon	Talcott Mountain Academy	Brigette Zacharczenko	2530	L8	2	Survey of Common Types of Cyanobacteria and its Toxins Found in the Recreational Areas of CT		
			Student(s)		Anishka Perera	Grade 8	Town	Torrington

- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- * American Society of Safety Professionals, CT Valley Chapter --- \$100 grade 7-8 project
- * Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash

Avon	Talcott Mountain Academy	Lydia Gibb	2515	L8	2	The Bubble		
			Student(s)		Leo Southam	Grade 8	Town	Shelton

- * Future Sustainability Awards --- 3rd Place Middle School - \$100 Cash and Trophy
- * Fuss & O'Neill, Inc. --- \$200 Award for Excellence in Environmental Sciences

Avon	Talcott Mountain Academy	John Lombardo	5028	P7	2	The Vaccinator		
			Student(s)		Zachary Starr	Grade 7	Town	Avon

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

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

Bethany Amity Middle School - Bethany Kevin Berean
 4016 PT 3 Soft Robotic Underwater Inspection System
 Student(s) Sam Anastasio Grade 8 Town Woodbridge
 Piyush Bahel Grade 8 Town Woodbridge

Bethany Amity Middle School - Bethany Kevin Berean
 4029 PT 3 Car-Temp-Bot
 Student(s) Aaron Babajanyan Grade 8 Town Woodbridge
 Edgar Babajanyan Grade 8 Town Woodbridge

Bethany Amity Middle School - Bethany Kevin Berean
 4025 PT 1 Artificial Pancreas to Regulate Blood Sugar Levels
 Student(s) Anchal Bahel Grade 8 Town Woodbridge
 Nina Carmeli Grade 8 Town Woodbridge

- * Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * ISA - International Society for Automation - Ct. Valley Section --- 1st - \$125 award

Bethany Amity Middle School - Bethany Kevin Berean
 4009 PT 1 Coral Explorer
 Student(s) Zoe Fleischman Grade 8 Town Woodbridge
 Aadya Wijesekera Grade 8 Town Bethany

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion
- * ISA - International Society for Automation - Ct. Valley Section --- 2nd - \$75 award
- * Spirit of Invention Award --- \$100 Cash and Plaque for Inventive Concepts

Bethany Amity Middle School - Bethany Kevin Berean
 2528 L8 3 Purifying Grey Water Using a Constructed Wetland
 Student(s) Nell Grant Grade 8 Town Woodbridge

- * Environmental Sciences Awards with CACIWC --- 1st Place MS - \$300, Trophy, CACIWC gifts
- * Future Sustainability Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology 8th grade- trophy
- * Southeastern New England Marine Educators (SENEME) --- \$100 award and membership in SENEME - 1st Place Junior & T-Shirt
- * **The Karen J. Howell Middle School Award for "Learning and Serving"**
 --- The Karen J. Howell Middle School Award for "Learning and Serving" - \$1000

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

Bethany Amity Middle School - Bethany Kevin Berean
 4005 PT 1 Multifunctional Temperature Sensor

Student(s) Annie Liu **Grade 8** **Town** Woodbridge
 Melinda Lu **Grade 8** **Town** Woodbridge

- * Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences MS Team- trophy, invite to compete Broadcom MASTERS
- * Applied Technology Awards --- Middle School Finalist - Medallion
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * Dreams Unlimited Award --- \$100 Cash Award + Certificate

Bethany Amity Middle School - Bethany Kevin Berean
 5535 P8 2 The Internal Hearing Processor

Student(s) Eric Novak **Grade 8** **Town** Woodbridge

Bethany Amity Middle School - Bethany Kevin Berean
 5503 P8 2 Preventing Bicycle Injuries Using an Arduino Microcontroller

Student(s) Anthony Sharonov **Grade 8** **Town** Bethany

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

Bethany Amity Middle School - Bethany Kevin Berean
 4019 PT 3 Waste Watchers

Student(s) Elise Sheehe **Grade 8** **Town** Bethany
 Audrey Cummings **Grade 8** **Town** Woodbridge
 Anushka Acharya **Grade 8** **Town** Bethany

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

Bethany Amity Middle School - Bethany Kevin Berean
 4013 PT 3 Safer Football Helmets

Student(s) Ethan Torrens **Grade 8** **Town** Bethany
 Thomas Martocchio **Grade 8** **Town** Woodbridge

Bethany Amity Middle School - Bethany Kevin Berean
 4001 PT 2 Taking Flight

Student(s) Henry Yang **Grade 8** **Town** Woodbridge
 Luhai Tang **Grade 8** **Town** Woodbridge

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Bethany	Amity Middle School - Bethany	Kevin Berean	5524	P8	3	Wind Turbine Tree		
			Student(s)		Mingyue Zha	Grade 8	Town	Woodbridge
<ul style="list-style-type: none"> * Alternative/Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy * Future Sustainability Awards --- Middle School Finalist - Medallion * Constellation, an Exelon Company --- 2nd: \$50.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy * Connecticut Association for the Gifted --- Leonardo Davinci 7-8 Grade \$50 Gift Certificate 								
Bethel	Bethel High School	Mr. Grand	6072	PS	3	Calculating the Best American Launch Vehicle for the Boeing CST-100 Starliner		
			Student(s)		Ryan Lemone	Grade 11	Town	Bethel
Bethel	Bethel High School	Mr. Ray Turek	6011	PS	3	Quasar Luminosity Variability Over Right Ascension and Declination		
			Student(s)		Jillian Paulin	Grade 12	Town	Bethel
Bethel	Bethel High School	Joseph Grand	6099	PS	2	Testing How Different Materials Reduce Frequency and the Effectiveness of that Material in Reducing White Noise		
			Student(s)		Brian Salvador	Grade 12	Town	Bethel
<ul style="list-style-type: none"> * American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 9-12 project * Connecticut Academy of Audiology --- \$150 Award MS- For Excellence in Audiology and Acoustics, oport. to shadow an audiologist 								
Bethel	St. Mary School	Kate McDonald	5018	P7	3	Projectile Motion		
			Student(s)		Vincent Bordash	Grade 7	Town	Newtown
Bethel	St. Mary School	Mrs. McDonald	5522	P8	3	Bio Bottle		
			Student(s)		Charlotte Bruce	Grade 8	Town	Danbury
Bethel	St. Mary School	Kate McDonald	5505	P8	3	Conserving Water, One Rinse at a Time		
			Student(s)		Anna Kopec	Grade 8	Town	Bethel
Bethel	St. Mary School	Katherine McDonald	5538	P8	2	Solar Powered Tesla Coil		
			Student(s)		Kayla O'Marra	Grade 8	Town	Bethel

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Bethel	St. Mary School	Mrs. Kate McDonald	2005	L7	3	Will a plant grow faster and stronger with fertilizer, compost, or nothing.		
Student(s) Thomas Patten					Grade 7	Town Bethel		

Bethel	St. Mary School	Kate McDonald	2016	L7	1	Does Boiling Vegetables Affect Vitamin C Content?		
Student(s) Jenna Saidman					Grade 7	Town Bethel		

* The Jackson Laboratory Life Sciences Awards --- 2nd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS

Bethel	St. Mary School	Kate McDonald	5518	P8	2	#SAVETHESIP		
Student(s) Kerry Tuccinardi					Grade 8	Town Bethel		

* Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- Middle Schools- \$100 / trophy
 * Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School, Physical Sciences

Bozrah	Fields Memorial School	Mrs. E Brown	5526	P8	1	Piezo Energy Collection from Quake Vibrations		
Student(s) Alanna Brady					Grade 8	Town Bozrah		

* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
 * Collins Aerospace Engineering Awards --- 3rd Place- Engineering MS \$100 & trophy and Invitation Compete in Broadcom MASTERS
 * POWER Engineers --- \$200 for " Excellence in Electrical Engineering- emphasis on Power Electronics" - Middle School

Bozrah	Fields Memorial School	Mrs. Evelyn Brown	5530	P8	2	Facial Recognition using Raspberry Pi and Python		
Student(s) Leah Manke					Grade 8	Town Bozrah		

* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
 * Robert Francoeur Memorial Award --- Creative or innovative project in electrical engineering or computer science by female students - \$200

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

Bozrah Fields Memorial School Evelyn Brown

5025 P7 1 Recovering Energy From an A/C Unit Condenser Exhaust Fan

Student(s) Elle Okoney **Grade 7** **Town** Bozrah

- * Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences 7th Grade Ind. - trophy and Invitation Compete in Broadcom MASTERS
- * Applied Technology Awards --- Middle School Finalist - Medallion
- * Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
- * Future Sustainability Awards --- 1st Place Middle School - \$300 Cash and Trophy
- * Collins Aerospace Engineering Awards --- 1st Place- Engineering Middle School- \$400 & trophy and Invitation Compete in Broadcom MASTERS
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate
- * National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF
- * The Children's Museum --- 1 family 4-Pack of Admission Passes to the Children's Museum
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related

Bozrah Fields Memorial School Mrs. Evelyn Brown

2508 L8 1 A Gravimetric and Microscopic Analysis of the Decomposition Rates of Leaves from Different Species of Trees in Varied Climates.

Student(s) Norah Tracy **Grade 8** **Town** Gilman

- * The Jackson Laboratory Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- 2nd Place MS- \$200, Trophy, CACIWC gifts
- * Yale Peabody Museum --- One-Year Family Membership to the Yale Peabody Museum

Bridgeport Black Rock School Alexis Davis

5532 P8 2 Tracking Geomagnetic Storms in the Ionosphere

Student(s) Yousra Oukassi **Grade 8** **Town** Bridgeport

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

Bridgeport Bridgeport Military Academy Arun Kadam

6080 PS 3 Textiles and Heat Reaction: How Likely to burn if left Under Iron Heat?

Student(s) Dafne Hernandez **Grade 11** **Town** bridgeport

Bridgeport Bridgeport Military Academy Samantha Peck

3039 LS 3 What Type of Tourniquet Will Stop The Bleed Faster?

Student(s) Vincent Porcaro **Grade 9** **Town** Easton

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

Bridgeport Bridgeport Military Academy Arun Kadam

3519 LST 3 Will Twins Have the Same Fingerprints?

Student(s) Angelina Scrivines **Grade 11** **Town** Ansonia
 Jennifer Vilorio **Grade 11** **Town** Bridgeport

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Bridgeport	Bridgeport Military Academy	Mr.Kadam	3080	LS	2	The Stroop Effect		
			Student(s)		Gabrielly Zeferino		Grade 11	Town Bridgeport
Bridgeport	Bridgeport Regional Aquaculture Center	Mr. Shadle	6074	PS	2	Sorption of Hydrogen Sulfide Contaminates Through Methyl Diethanolamine Doped Ceramic Beads Coupled With a Piperazine Catalyst		
			Student(s)		Erica Carpenter		Grade 12	Town Trumbull
<ul style="list-style-type: none"> * CASE • PepsiCo Urban School Challenge Awards with IBM --- 3rd Place High School - \$ 300 and Plaque, Medallion * Future Sustainability Awards --- 1st Place High School - \$500 Cash, Plaque * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Future Sustainability * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Sustainability 								
Bridgeport	Bridgeport Regional Aquaculture Center	Mr.Shadle	6044	PS	2	Candidate Evaluation Of A Replacement Catalyst In A Hydrogen Fuel Cell Oxygen-Reduction Reaction.		
			Student(s)		Shemar Chastanet		Grade 12	Town Bridgeport
Bridgeport	Bridgeport Regional Aquaculture Center	Mr. Shadle	6093	PS	2	Geospatial Analysis of the Martian Surface to Promote the Growth of Photosynthetic Exoagriculture		
			Student(s)		Nick Fawcett		Grade 12	Town Fairfield
* U.S. Metric Association --- Certificate & \$25 Amazon gift card given by CSEF								
Bridgeport	Bridgeport Regional Aquaculture Center	Mr. Shadle	6022	PS	2	Development and Validation of a Novel Protocol by X-Ray Spetrometry for Determination of Heavy Metals in Organic Samples		
			Student(s)		Joseph Federico		Grade 12	Town Milford
Bridgeport	Bridgeport Regional Aquaculture Center	Mr. Shadle	6079	PS	2	Maximizing Photodynamic Therapy Through Highly Focused Beam of 200 nanometer - 400 nanometer to Promote Cellular Lysis		
			Student(s)		Jeremy Garskof		Grade 12	Town Fairfield
<ul style="list-style-type: none"> * Applied Technology Awards --- Senior High Finalist - Medallion * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion * Demos R Us Award --- \$200 Cash Award- Clear Execution of Research- High School 								
Bridgeport	Bridgeport Regional Aquaculture Center	Mr. Shadle	6084	PS	2	Utilizing an electrical charge to stimulate osteogenesis		
			Student(s)		Patrick Hall		Grade 12	Town Milford

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Bridgeport	Bridgeport Regional Aquaculture Center	Mr. Shadle	3096	LS	3	Determining the Role of β -Carotene on the Circadian Rhythm of <i>Neurospora crassa</i> Relative to the Prevention of Parkinson's Disease		
			Student(s)		Britley Learnard	Grade 12		Town Trumbull

Bridgeport	Bridgeport Regional Aquaculture Center	Mr. Shadle	6001	PS	1	Enhancing Dye Sensitized Solar Cell Efficiency Through the Application of a Silica Structure Microfilm Layer		
			Student(s)		Camryn Mazerolle	Grade 12		Town Shelton

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Alternative/Renewable Energy Awards --- 2nd Place High School - \$300 Cash and Plaque
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 2nd Place HS Alternative/Renewable Energy Project
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Energy & Transportation

Bridgeport	Bridgeport Regional Aquaculture Center	Mr. Shadle	3027	LS	2	Phytoremediation of 17 β Estradiol Using <i>Lemna minor</i> in Freshwater Bodies		
			Student(s)		Joshua Salem	Grade 12		Town Trumbull

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, air pollution related

Bridgeport	Bridgeport Regional Aquaculture Center	Mr. Shadle	3015	LS	2	Effect of Metal Ion Chelation by Curcumin on the Progression of Alzheimer's Disease		
			Student(s)		Elizabeth Silva	Grade 12		Town Bridgeport

Bridgeport	Bridgeport Regional Aquaculture Center - BCF	Mr. Shadle	6032	PS	2	Biofiltration of Ferric Iron Utilizing Citrus Biowaste to Mitigate Freshwater Harmful Algal Blooms.		
			Student(s)		Malcolm Katz	Grade 12		Town Fairfield

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition

Bridgeport	Bridgeport Regional Aquaculture Center - BCF	Mr. Shadle	6026	PS	2	Development of Self Adjusting Slip Clutch Vertical Axis Wind Turbine to Eliminate Torque Damage in High Wind Speeds		
			Student(s)		Gavin Krois	Grade 12		Town Milford

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

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Bridgeport	Bridgeport Regional Aquaculture Center - BCF	Mr. Shadle	3071	LS	3	Extraction of Environmental Deoxyribonucleic Acid and its Preservation in Silk Fibroin		
						Student(s) Tyler McKenna-Hansen	Grade 12	Town Milford
Bridgeport	Fairchild Wheeler Interdistrict Magnet	Douglas Strickland	6531	PST	3	Panic Avoidance Safety System (P.A.S.S.)		
						Student(s) Hritish Bhargava	Grade 12	Town Shelton
						Christopher Ohlin	Grade 12	Town Stratford
Bridgeport	Fairchild Wheeler Interdistrict Magnet	Mr. Berquist	6059	PS	3	Auto-Attendance		
						Student(s) Jeramiah Brown	Grade 11	Town Bridgeport
Bridgeport	Fairchild Wheeler Interdistrict Magnet	Mrs. Pearson	3503	LST	1	Queenswap: an experiment to change the subspecies of an Apis Mellifera queen and her colony to a more northeastern acclimated subspecies.		
						Student(s) Victoria LaGuardia	Grade 12	Town Monroe
						Lauren Wokanovicz	Grade 12	Town Shelton
<p>* The Jackson Laboratory Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion</p>								
Bridgeport	Fairchild Wheeler Interdistrict Magnet	Michael O'Reilly	6526	PST	3	Detecting Intersection Blind Spots		
						Student(s) Juan Marin	Grade 12	Town Bridgeport
						Javier Zavala-Chavez	Grade 12	Town Bridgeport
Bridgeport	Fairchild Wheeler Interdistrict Magnet	Cynthia Crudale	6023	PS	2	The Link Between Electromagnetic Radiation Exposure from Electronic Devices and Mental Health Issues and How to protect yourself from EMF from electronic devices.		
						Student(s) Zenobia Moore	Grade 10	Town Bridgeport, CT
Bridgeport	Fairchild Wheeler Interdistrict Magnet	Megan Good	6517	PST	3	R.P.G.		
						Student(s) Kush Patel	Grade 9	Town Trumbull
						Tyron Jones	Grade 9	Town bridgeport
Bridgeport	Fairchild Wheeler Interdistrict Magnet	Mrs. Starks	6071	PS	3	Utterly Surprising		
						Student(s) Gabriel Rivera	Grade 9	Town Bridgeport

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Bridgeport	Fairchild Wheeler Interdistrict Magnet	Paul Bergquist	6512	PST	3	Which pain medication is more soluble in stomach acid?		
		Student(s) Aj Stack					Grade 10	Town Bridgeport
		John Kitengie					Grade 10	Town Bridgeport,
Bridgeport	Fairchild Wheeler Interdistrict Magnet	Ms. Good	6522	PST	3	The Efficiency of Wind Turbine Blades		
		Student(s) Mya Zayas					Grade 9	Town Bridgeport
		Chandini Kalidindi					Grade 9	Town Trumbull
* Tunxis Community College --- \$623 Course Tuition Voucher for HS Senior Sustainable Energy Project								
Bridgeport	Geraldine Claytor Magnet Academy	Logan Whitley	2516	L8	2	Optimal Lighting for Gloeocapsa		
		Student(s) Iris Rivera					Grade 8	Town Bridgeport
Bridgeport	High Horizons Magnet School	Mrs Scott-Thiam	5014	P7	1	Hydraulic Arm		
		Student(s) Deandre Jenkins					Grade 7	Town BRIDGEPORT
* Lockheed Martin Physical Sciences Awards --- 5th Place- Physical Sciences 7th Grade Individual - trophy								
Bridgeport	High Horizons Magnet School	Portia Scott-Thiam	5508	P8	3	A Mouthful Of Minerals		
		Student(s) Ciara Underwood					Grade 8	Town Bridgeport
Bridgeport	Interdistrict Discovery Magnet School	Helena Coatsworth	5030	P7	2	The Heat is On		
		Student(s) Amelia Bragg-Phillips					Grade 7	Town Stratford
* American Meteorological Society --- Certificate & \$25 gift card given by CSEF								
Bridgeport	Interdistrict Discovery Magnet School	Helena Coatsworth	2501	L8	2	Does Color Effect Memory Retention?		
		Student(s) Zoe Curtin					Grade 8	Town Bridgeport
* American Psychological Association --- Certificate, \$25 gift card given by CSEF								
Bridgeport	James Curiale School	Patrick Borden	5024	P7	2	Electric Power Generator		
		Student(s) Tajelia Buckley					Grade 7	Town Bridgeport
* Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion								

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Bridgeport	Jettie S. Tisdale School	Frances Morra	5545	P8	3	Is It REALLY Childproof?		Student(s) Lindsey Mohammed Grade 8 Town Bridgeport
Bridgeport	Jettie S. Tisdale School	Frances Morra	2504	L8	3	Music Memory		Student(s) Travis Snow Grade 8 Town Bridgeport
Bridgeport	Park City Magnet School	Ms. Daria Collins	5021	P7	3	The Bolt		Student(s) Alissa Brown Grade 7 Town Bridgeport
Bridgeport	Park City Prep Charter School	vicky boudreau	4002	PT	3	Copper Plating		Student(s) Nakai Barros Grade 7 Town Bridgeport Del'vondre Ramroop Grade 7 Town bridgeport
Bridgeport	Park City Prep Charter School	Jonathan Jaekle	2531	L8	1	Improving Fuel Economy		Student(s) David Boudreau Jr Grade 8 Town Ansonia
<ul style="list-style-type: none"> * The Jackson Laboratory Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion * CASE • PepsiCo Urban School Challenge Awards with IBM --- 2nd Place Middle School - \$200 and Trophy, Medallion * Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion 								
Bridgeport	Park City Prep Charter School	Jonathan Jaekle	2517	L8	3	H 2 KNOW		Student(s) Jeremiah Hernandez Grade 8 Town Bridgeport
Bridgeport	Park City Prep Charter School	Vicky Boudreau	2011	L7	1	The Balance of Nature		Student(s) Eva Holleran Grade 7 Town Bridgeport
<ul style="list-style-type: none"> * The Jackson Laboratory Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion 								
Bridgeport	Park City Prep Charter School	Vicky Boudreau	1020	LT	3	An Apple A Day Keeps The Doctor Away		Student(s) Evelise Ramirez Grade 7 Town Bridgeport Tatianna Nugent Grade 7 Town Waterbury Ali Khan Grade 7 Town Bridgeport

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Bridgeport	Park City Prep Charter School	Mrs. Boudreau	1016	LT	3	Which Parsley is better?		
		Student(s)						
		Gabriella-elise Rodrigues					Grade 7	Town Waterbury
		Sara Pacheco					Grade 7	Town bridgeport
* Association for Women Geoscientists --- Certificate & \$25 girt card given by CSEF								
Bridgeport	Park City Prep Charter School	Vicky Boudreau	2004	L7	3	Cleaning coins		
		Student(s)						
		Cristopher Rodriguez					Grade 7	Town Bridgeport
Bridgeport	Park City Prep Charter School	vicky Boudreau	1011	LT	2	This project is called egg it on. This project was about what would happen if teeth were to sit in soda for a 7 day time period, but we replaced the teeth with eggs.		
		Student(s)						
		Alvin Russell					Grade 7	Town Bridgeport
		Mia Salaman					Grade 7	Town Bridgeport
Bridgeport	Park City Prep Charter School	Mr. Jaekle	1004	LT	2	Biowarfare: Phages & E. coli		
		Student(s)						
		Imrath Saboor					Grade 8	Town Bridgeport
		Parisa Ahad					Grade 8	Town Bridgeport
Bridgeport	Park City Prep Charter School	Mrs. Boudreau	2512	L8	2	Turmeric as an Antioxidant		
		Student(s)						
		Laniyah Schultz					Grade 8	Town Bridgeport
* CASE • PepsiCo Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion * U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate								
Bridgeport	Park City Prep Charter School	mrs.Boudreau	2505	L8	3	Cloning Double Trouble		
		Student(s)						
		Anthony Shaw					Grade 8	Town Bridgeport
Bridgeport	Park City Prep Charter School	Mr.Jaekle	2526	L8	3	Memory and Personality		
		Student(s)						
		Bria Williams					Grade 8	Town Bridgeport
Bridgeport	Roosevelt School	Simon	2525	L8	2	Homemade toothpaste vs regular toothpaste		
		Student(s)						
		Moez Khawaja					Grade 8	Town Bridgeport

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

Bridgeport Thomas Hooker School Mr. James Roman
 5031 P7 2 Taper Dome
Student(s) Rayshon Coty **Grade 7** **Town** Bridgeport

Brookfield Saint Joseph Catholic Academy Mrs. Dimon
 2003 L7 3 The Effect of Ocean Acidification on Crepidula Fornicata
Student(s) Abigail Cristaudo **Grade 7** **Town** Brookfield CT

* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
 * Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF

Brookfield Saint Joseph Catholic Academy Marde Dimon
 5548 P8 2 THE EFFECT OF SYNTHETIC DYES ON NATURAL AND SYNTHETIC FABRICS
Student(s) Amanda Hoyt **Grade 8** **Town** Danbury

Brookfield Saint Joseph Catholic Academy Mrs. Dimon
 2524 L8 1 The Effect of Various Combinations of Materials as Biosand Filters on the Filtration of Fresh Water
Student(s) Shaun McKenna **Grade 8** **Town** Brookfield

* The Jackson Laboratory Life Sciences Awards --- 3rd Place- Life Sciences 8th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS

Brookfield Saint Joseph Catholic Academy Mrs. Dimon
 2023 L7 2 The Effect of Collector Quantity on Solar Heating
Student(s) David Mitchell **Grade 7** **Town** New Milford

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

Brookfield Saint Joseph Catholic Academy Marde Dimon
 5516 P8 2 HOW DOES THE TYPE OF FILTER AFFECT THE AMOUNT OF PHOSPHORUS SEPARATED FROM LANDSCAPE RUNOFF
Student(s) Liam TeeKing **Grade 8** **Town** Brookfield

* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
 * The Goodwin-Niering Center for the Environment --- \$100 for "Excellence in Environmental Conservation Studies"

Brookfield Saint Joseph Catholic Academy Mrs. Dimon
 2502 L8 3 The Effect of Fertilizer on Algae
Student(s) Sania Toprani **Grade 8** **Town** New Milford

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

Canton Canton High School Stephen Riley
 6050 PS 2 Analyzing the Structure of Protostellar Core Clusters in an Infrared Dark Cloud
Student(s) Colton Glasgow **Grade 12** **Town** Canton

* Astronomical Society of Greater Hartford --- Senior Project-\$150, subscription to Sky and Telescope, ASGH membership and meeting invitation

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Cheshire	Cheshire High School	Ms. Barker	3056	LS	2	A Bioinformatics approach to Hemochromatosis and How its Genetic Mutations Affect Its Victims		
						Student(s) Koushik Gadachanda	Grade 10	Town Cheshire
Cheshire	Dodd Middle School	Manish Bhardwaj	5531	P8	1	Vision Assist 2.0		
						Student(s) Siddhant Bhardwaj	Grade 8	Town Cheshire
						* Lockheed Martin Physical Sciences Awards --- 5th Place- Physical Sciences 8th Grade Ind. - trophy		
						* Applied Technology Awards --- Middle School Finalist - Medallion		
						* Computer Science Awards --- 3rd Place Middle School- \$100, Trophy, Medallion		
Cheshire	St. Bridget School	Michelle Carroll	2002	L7	2	Garbage Gasoline		
						Student(s) Shreeya Gomathinayagam	Grade 7	Town Cheshire
Cheshire	St. Bridget School	Michelle Carroll	2521	L8	3	The Primacy Effect		
						Student(s) Hailey Kline	Grade 8	Town Meriden
Danbury	Danbury High School	Ms. McClelland	3054	LS	2	Molecular Modeling and Analysis of Peptides Derived From the Centipede Scolopendra Subspiniipes Mutilans (as a Potential Leukemia Targeted Therapy)		
						Student(s) Sarah Johnson	Grade 11	Town Danbury
						* CASE • PepsiCo Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion		
Danbury	Danbury High School	Barbara Bogart	3072	LS	2	Effect of CRP on the Development of Atherosclerosis in ApoE Knockout Mice		
						Student(s) Bradley Kerr	Grade 11	Town Danbury
Danbury	Danbury High School	Meghan Bresson	6063	PS	2	Engineering a Polyelectic Biomimetic Micro Aerial Vehicle to Pollinate Flowers		
						Student(s) Khushi Parikh	Grade 9	Town Danbury
						* Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place High School \$250 / plaque		
						* CASE • PepsiCo Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion		
						* Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Physical Sciences		
Danbury	Immaculate High School	Bernice Papia	6097	PS	1	Unprecedented Biofuel Formation by isomerization and Cross Metathesis of Sunflower Oil		
						Student(s) Elias Haddad	Grade 10	Town Danbury
						* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion		

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Danbury	Saint Joseph School	Jennifer Reilly	5007	P7	3	Turmeric Indicator		
Student(s) Aneesha Addepalli							Grade 7	Town Danbury

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

* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
 * Demos R Us Award --- \$150 Cash Award- Clear Execution of Research- 8th Grade

Danbury	Saint Joseph School	Jennifer Reilly	5013	P7	3	Lemonade vs Sports Drinks		
Student(s) Aidan Henn							Grade 7	Town Danbury

Danbury	Saint Joseph School	Jennifer Reilly	5546	P8	3	Ultraviolet Radiation Studying the Reaction Rates in Ultraviolet Beads		
Student(s) Christian Jeffers							Grade 8	Town Danbury

Danbury	Saint Joseph School	Mrs. Jennifer Reilly	2021	L7	2	A Plant's Favorite Nutrient What helps plants grow best: Distilled Water, Miracle Gro or Bio-Tone Starter Plus		
Student(s) Carly MacKinnon							Grade 7	Town Danbury

Danbury	Saint Joseph School	Mrs. Reilly	5020	P7	2	Stick to It		
Student(s) Nicole Radliff							Grade 7	Town New Fairfield

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

* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
 * Computer Science Awards --- Middle School Finalist - Medallion
 * Alternative/Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy
 * Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
 * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
 * National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF
 * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, high school, \$100 cash award

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

Danbury St. Gregory the Great School Mrs. Christine Fahey

2503	L8	2	The Effects of Oil on the Removal of Microplastics From Water
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Student(s) Aiden Doolabh **Grade 8** **Town** Danbury

- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- * Future Sustainability Awards --- Middle School Finalist - Medallion
- * Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum

Danbury St. Gregory the Great School Christine Fahey

5010	P7	2	Green Insulation?
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Student(s) Tyler Fahey **Grade 7** **Town** Danbury

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

Danbury St. Gregory the Great School Mrs. Fahey

2518	L8	1	ONE MAN'S TRASH IS ANOTHER MAN'S ENERGY
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Student(s) Thomas Fanelli **Grade 8** **Town** Danbury

- * The Jackson Laboratory Life Sciences Awards --- 1st Place- Life Sciences 8th grade- \$300 & trophy and Invite to Compete Broadcom MASTERS
- * Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Life Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology 8th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS
- * Sister Mary Christine Life Sciences Award --- \$100 for excellence in the life sciences by a catholic middle school project
- * Frank J. Link Family Award for Energy Related Research --- Frank J. Link Award for Energy Related Research - \$50

Danbury St. Gregory the Great School Christine Fahey

2522	L8	3	Go Fresh For Best Vitamin C
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Student(s) Michael Green **Grade 8** **Town** Danbury

Danbury St. Gregory the Great School Christine Fahey

1006	LT	1	Fire For Farming
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Student(s) Joseph Halas **Grade 7** **Town** Danbury

Patrick Heslin **Grade 7** **Town** New Milford

Ryan Devin **Grade 7** **Town** Brookfield

- * The Jackson Laboratory Life Sciences Awards --- 3rd Place- Life Sciences MS Team- trophy and Invite to Compete Broadcom MASTERS
- * Future Sustainability Awards --- Middle School Finalist - Medallion

Danbury St. Gregory the Great School Christine Fahey

5035	P7	3	Corrosion Breakdown
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Student(s) Thejus Joseph **Grade 7** **Town** Danbury

Conn. Science & Engineering Fair

Winning Projects

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

Danbury St. Gregory the Great School Elizabeth Muro
 2010 L7 2 Lights, plants, action
Student(s) Alicia Muro **Grade 7** **Town** Danbury

Danbury Westside Middle School Academy Johnathan Neuhausel
 2015 L7 3 Temperature threshold for ultra-cold sanitization of Salmonella-contaminated supermarket chicken
Student(s) Warrick Broecking **Grade 7** **Town** Danbury

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

- * The Jackson Laboratory Life Sciences Awards --- 1st Place- Life Sciences 7th grade- \$200 & trophy and Invitation to Compete Broadcom MASTERS
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion
- * Peer-to-Peer Awards --- 7th Grade Life Sciences - \$300 Amazon Gift Card

Danbury Westside Middle School Academy Jon Neuhausel
 1024 LT 2 The effects of Temperature Pollution and Chemical Pollution on Daphnia's Heart Rate
Student(s) Nayeli Guzman **Grade 8** **Town** Danbury
 Eliana Betancourt-Colon **Grade 8** **Town** Danbury

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

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF

Danbury Westside Middle School Academy Jonathan Neuhausel
 2523 L8 2 Impact of Microwave-irradiated Plastic on Microbiological Health Indices
Student(s) Sharva Karthikeyan **Grade 8** **Town** Danbury

- * CASE • PepsiCo Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion

Danbury Westside Middle School Academy Mr. Neuhausel
 5017 P7 2 Extracting Fingerprints From 3D Printed Objects
Student(s) Julia Porto **Grade 7** **Town** Danbury

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

Danbury Westside Middle School Academy Jonathan Neuhausel
 5509 P8 1 The Study of Effectiveness of Different Separation Methods in Removing Suspended Microplastics from Water

Student(s) Srishti Ramakrishnan **Grade 8** **Town** Danbury

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- Middle School \$300 / trophy
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 1st Place Middle School - \$300 and Trophy, Medallion
- * Environmental Sciences Awards with CACIWC --- 3rd Place MS- \$100, Trophy, CACIWC gifts
- * 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
- * National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEFF
- * Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Phys Science
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related
- * Urban School Challenge 1st Place Middle School Awards --- Highest Placing 8th grader- GENIUS-Olympiad Competition -\$500 travel stipend (See Sponsor 421)
- * GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project

Danbury Westside Middle School Academy Jonathan Neuhausel
 2024 L7 1 Molecular Health Indices of the Kalmia Latifolia

Student(s) Maria Eduarda Sousa Lopes **Grade 7** **Town** Danbury

- * The Jackson Laboratory Life Sciences Awards --- 4th Place- Life Sciences 7th grade- trophy and Invitation Compete in Broadcom MASTERS
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion
- * 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
- * Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash

Danbury Westside Middle School Academy J. Neuhausel
 5027 P7 1 DIY WiFi Booster

Student(s) Chase Tomaino **Grade 7** **Town** Danbury

- * Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 3rd Place Middle School - \$100 and Trophy, Medallion
- * U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate
- * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp

Danbury Westside Middle School Academy Jonathan Neuhausel
 5536 P8 2 The Effect of Different Cleaning Agents on the Levels of Pesticides in Lemons

Student(s) Jacob Williams **Grade 8** **Town** Danbury

East Hartford St. Christopher School Mr. Golas
 5506 P8 2 Heat It Up!

Student(s) Ahjeiza Adrian **Grade 8** **Town** Manchester

- * Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion

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

East Lyme East Lyme High School Frederic Clark
 3102 LS 3 Investigating How Different Types of Milks Affect Dextrose Levels by Using an Enzyme Substrate Complex Assay
Student(s) Aditya Kabra **Grade 9** **Town** Niantic

Ellington Ellington Middle School David Gerlach
 5552 P8 2 Research, Analysis, and Experimentation of CO2-Style Engines
Student(s) John Gerlach **Grade 8** **Town** Ellington

Fairfield Fairfield College Preparatory School Mrs. Kiel
 3068 LS 2 Oil Spill Bioremediation
Student(s) Antonios Boudreau **Grade 10** **Town** Ansonia

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

Fairfield Fairfield College Preparatory School Deborah Kiel
 6033 PS 3 The Medicine Case
Student(s) Michael Coyne **Grade 9** **Town** Woodbridge

Fairfield St. Thomas Aquinas Catholic School Philip Flynn
 4007 PT 1 Wind Energy
Student(s) Andrew Cimmino **Grade 8** **Town** FAIRFIELD
 Joshua Dixon **Grade 8** **Town** Bridgeport

* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion
 * Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion
 * Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
 * Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF
 * J.A. Augustine Award --- \$100 for excellence in physical sciences

Farmington Farmington High School Tim Walsh
 3057 LS 2 Use of Machine Learning to Predict Undetermined Coronary Related Chest Pain-Angina
Student(s) Angela Sadlowski **Grade 10** **Town** Unionville

Fishers Island Fishers Island School Carol Giles
 3047 LS 3 The Effect of Fertilizer Application on the Nutrition of Kale Plants as Measured in Brix and Visible Growth.
Student(s) Ellanora Lerner **Grade 11** **Town** New London

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Glastonbury	Glastonbury High School	Ms. Diane Pintavalle	6091	PS	1	SELECTIVE OXIDATION OF BENZYL ALCOHOL TO BENZALDEHYDE USING A VANADIUM DOPED CERIA MESOPOROUS CATALYST		
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Student(s) Ananya Aggarwal **Grade** 11 **Town** South Glastonbury

* Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences Senior High Individual - \$200 & Plaque
 * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Chemistry

Glastonbury	Glastonbury High School	Diane Pintavalle	6006	PS	2	INFLUENCE OF IONIC STRENGTH ON THE CLEAVAGE RATE OF DNAAZYME -TETHERED NANOCAPSULES		
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Student(s) Dina Allam **Grade** 12 **Town** Glastonbury

Glastonbury	Glastonbury High School	Diane Pintavalle	6039	PS	2	Synthesis of Novel, Mesoporous Metal Oxides		
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Student(s) Shannu Channa **Grade** 11 **Town** Glastonbury

Glastonbury	Glastonbury High School	Diane Pintavalle	3031	LS	3	Using Surface-Exposed Loop Regions of putative FadL-like Outer membrane proteins of Treponema pallidum as Vaccine Targets.		
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Student(s) Arthur Chiu **Grade** 11 **Town** Glastonbury

Glastonbury	Glastonbury High School	Diane Pintavalle	3025	LS	3	Genetic Examination of Chromatin Structure in Yeast Cells		
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Student(s) Anmol Chowdhary **Grade** 10 **Town** Glastonbury

Glastonbury	Glastonbury High School	Diane Pintavalle	3040	LS	2	Designing a Metal Organic Framework-Nanocapsule for delivering hydrophilic drug cargo		
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Student(s) Cassandra George **Grade** 12 **Town** Glastonbury

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

Glastonbury	Glastonbury High School	Diane Pintavalle	6078	PS	2	Effect Of Lengthening Tungsten-Based β -sheet Models On Hydrogen Bonding Behavior		
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Student(s) Rebecca Lee **Grade** 12 **Town** Glastonbury

Glastonbury	Glastonbury High School	Ms. Diane Pintavalle	6066	PS	2	USING A CONFORMAL PIEZOELECTRIC PLLA-BASED MICROPHONE FOR IMPROVED PHONOCARDIOGRAPHY AND BOWEL SOUND ANALYSIS		
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Student(s) Abhi Mohnani **Grade** 12 **Town** Glastonbury

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

Glastonbury Glastonbury High School Diane Pintavalle
 3101 LS 2 INVESTIGATING THE EFFICACY OF ALPHA-LIPOIC ACID FOR REDUCING SKIN CANCER
Student(s) Athulya Narayanan **Grade 12** **Town** GLASTONBURY

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

Glastonbury Glastonbury High School Diane Pintavalle
 3097 LS 2 A Centrosome Checkpoint in Dedifferentiated Gonial Blasts
Student(s) Naiya Patel **Grade 11** **Town** Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle
 3108 LS 2 Chirality of ClavA peptide may have effects on antimicrobial activity
Student(s) Andrei Radulescu **Grade 11** **Town** Glastonbury

Glastonbury Glastonbury High School Ms. Pintavalle
 3001 LS 2 The Effect of Nitrogen on the Carbon Utilization of Microbial Communities in Different Types of Urban Ponds
Student(s) Meg Shah **Grade 11** **Town** Glastonbury

Glastonbury Glastonbury High School Ms. Diane Pintavalle
 6010 PS 3 APPLYING MACHINE LEARNING AND SENTIMENT ANALYSIS TECHNIQUES TO PREDICT THE FUTURE PRICES OF INDIVIDUAL STOCKS
Student(s) Leonard Tang **Grade 12** **Town** Glastonbury

Glastonbury Glastonbury High School Diane Pintavalle
 3004 LS 2 Live Cell Fluorescence Imaging Showcases Autophagy in Mammalian Cell when Mitochondria are Depolarized
Student(s) Shiyun Tang **Grade 12** **Town** GLASTONBURY

Glastonbury Glastonbury High School Diane Pintavalle
 3036 LS 3 Clinician's Opinions Regarding Measuring Gait Speed in Clincial Settings
Student(s) Sheela Tavakoli **Grade 11** **Town** Glastonbury

Greens Farms Greens Farms Academy Modupe Oshin
 1022 LT 3 Building a Pressurized Submersible to Create a Safe and Sustainable Environment for Marine Life Collected in the "Twilight Zone" and Brought Up to the Surface .
Student(s) Lauren Lior **Grade 8** **Town** Fairfield
Sophie Galaburda **Grade 8** **Town** Westport

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

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

Greens Farms Greens Farms Academy Dr. Mathieu Freeman

3111 LS 2 Trx2 Deficiency Induced Impaired Mitochondrial Integrity and Adipocyte Dysfunction

Student(s) Grace McGonagle **Grade** 12 **Town** Southport

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

Greens Farms Greens Farms Academy Mathieu Freeman

3104 LS 1 The Effects of Mobile Phone Induced Radiation on Honeybee Behavior

Student(s) Quinn Mullineaux **Grade** 12 **Town** Fairfield

* The Jackson Laboratory Life Sciences Awards --- 2nd Place- Life Sciences Senior High- \$300 & Plaque
 * Environmental Sciences Awards with CACIWC --- 3rd Place HS- \$100, Plaque, CACIWC gifts
 * Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a High School student, \$200 cash
 * Peer-to-Peer Awards --- High School Life Sciences - \$300 Amazon Gift Card

Greens Farms Greens Farms Academy Modupe Oshin

5008 P7 2 PediGenerator: Turning Steps Into Energy Using PiezoElectric Generators to harness, convert and store the energy needed to charge a mobile device

Student(s) Tolani Oshin **Grade** 7 **Town** West Haven

* Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion
 * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
 * Constellation, an Exelon Company --- 1st: \$100.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
 * Frank J. Link Family Award for Energy Related Research --- Frank J. Link Award for Energy Related Research - \$50

Greens Farms Greens Farms Academy Ms. Modupe Oshin

5003 P7 1 Mobility Assistance Device for the Visually Impaired

Student(s) Chad Ruggiero **Grade** 7 **Town** Greenwich, CT

* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion
 * Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
 * Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & 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

Greens Farms Greens Farms Academy Mrs. Oshin

5515 P8 3 Bike Rack
 Redesigning the Problems of Modern Bike Racks

Student(s) Zoma Tessema **Grade** 8 **Town** Bridgeport

Greens Farms Greens Farms Academy Dr. Mathieu Freeman

6018 PS 2 Carboxyl-functionalized multi-walled carbon nanotubes and PTPN22 specific antibodies in detecting abnormal levels of PTP for immunosensor applications

Student(s) Lila Wells **Grade** 12 **Town** Westport

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

Greens Farms Greens Farms Academy Mathieu Freeman
 6013 PS 1 The effect of growth temperature and annealing on the degradation rate of AZ31 magnesium alloy for biomedical engineering applications

Student(s) Eva (Yihua) Zhang **Grade** 12 **Town** Fairfield

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

Greenwich Brunswick School Dana Montanez
 6515 PST 3 Constructing a Cruise Ship Sulfur Dioxide Emission Scrubber

Student(s) Leyton Borcherding **Grade** 10 **Town** Greenwich

Coulter Mackesy **Grade** 10 **Town** Bronxville

Greenwich Brunswick School Dana Montanez
 6508 PST 2 The Use of Piezoelectricity as a Power Source for Light

Student(s) Tristan Chang **Grade** 10 **Town** Greenwich

Ryan Winston **Grade** 10 **Town** Greenwich

* Alternative/Renewable Energy Awards --- High School Finalist - Medallion

Greenwich Brunswick School Dana Montanez
 3521 LST 1 Extracting, Cloning, and Targeting the Glyceraldehyde 3-Phosphate Dehydrogenase Gene in Invasive Plant Species

Student(s) Logan Darrin **Grade** 11 **Town** Greenwich

David Swigart **Grade** 11 **Town** Greenwich

* The Jackson Laboratory Life Sciences Awards --- 2nd Place- Life Sciences Senior High Team- \$300 (split) & Plaque
 * Banning Family Life Science Award --- For excellence in invasive species research, \$100 cash

Greenwich Brunswick School Dana Montanez
 6046 PS 3 Oil Containment following an Accidental Spill: Temporarily preventing the spread of crude oil in Aquatic Environments

Student(s) Lucas Delgado **Grade** 11 **Town** Riverside

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

Greenwich Brunswick School Dana Montanez
 6096 PS 2 Creating a More Efficient Wind Harvester Using Kite Power Technology

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

* Alternative/Renewable Energy Awards --- High School Finalist - Medallion

Greenwich Brunswick School Dana Montanez
 3502 LST 1 Identifying Segmented Nuclei to Advance Medical Research Using Convolutional Neural Networks

Student(s) Ali Hindy **Grade** 10 **Town** Greenwich

Thomas Fouts **Grade** 10 **Town** Rye

* The Jackson Laboratory Life Sciences Awards --- 1st Place- Life Sciences Senior High Team- \$500 (split) & Plaque

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

Greenwich Brunswick School Dana Montanez
 6518 PST 3 Harnessing the Circular Force of Water to Produce Energy and Maintain Pristine Natural Environments
Student(s) Peter Lehrman **Grade 11** **Town** Greenwich
 Alex Burdick **Grade 11** **Town** Riverside

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

- * Applied Technology Awards --- Senior High Finalist - Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2019 Invention Convention, May 4

Greenwich Brunswick School Montanez
 6504 PST 2 The Application of the Venturi Effect to Passively Accelerate Wind as a Means to Improve Wind Turbine Efficiency
Student(s) Eric Meindl **Grade 11** **Town** Riverside
 William McLaren **Grade 11** **Town** Greenwich

- * Alternative/Renewable Energy Awards --- High School Finalist - Medallion

Greenwich Brunswick School Dana Montanez
 3028 LS 2 Creation and Development of a Neural Network to Diagnose Alzheimer's Disease and Dementia
Student(s) Jamison Meindl **Grade 11** **Town** Riverside

- * Computer Science Awards --- 2nd Place High School - \$300, Plaque, Medallion
- * Intel Excellence in Computer Science Award --- \$200 & certificate
- * Mu Alpha Theta --- Certificate, \$25 gift card given by CSEF

Greenwich Brunswick School Dana Montanez
 3082 LS 2 Analyzing the Environmental Effects of Solar Farms and Wind Farms in the Gobi Desert
Student(s) Alex Morgan **Grade 11** **Town** Greenwich

Greenwich Brunswick School Dana Montanez
 3505 LST 1 Developing an Organic Buffer System to Negate Oceanic Algal Blooms and Acidification
Student(s) Colin Mulshine **Grade 10** **Town** Riverside
 Brooks Ferguson **Grade 10** **Town** Greenwich

- * The Jackson Laboratory Life Sciences Awards --- 3rd Place - Life Sciences Senior High Team - Plaque
- * 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)

Greenwich Greenwich Catholic School Carol Ann Lutz

1023	LT	1	Breathe Better
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Student(s)	William Carragher	Grade 7	Town Stamford
	Joseph Pizzurro	Grade 7	Town Stamford
	Ryan McIntire	Grade 7	Town Darien

- * The Jackson Laboratory Life Sciences Awards --- 1st Place- Life Sciences MS Team- \$100 each & trophy and Invite to Compete Broadcom MASTERS
- * Future Sustainability Awards --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 7th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS

Greenwich Greenwich Catholic School Carol Ann Lutz

4021	PT	3	Garbage Gangsterz
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Student(s)	Benjamin Coutant	Grade 7	Town Stamford
	Marcello Saviano	Grade 7	Town Stamford
	Nicholas Psychopaidas	Grade 7	Town Stamford

Greenwich Greenwich Catholic School Carol Lutz

4023	PT	3	Screen Saver
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Student(s)	Evan LiVigni	Grade 8	Town Stamford
	John Psychopaidas	Grade 8	Town Stamford
	Lucas Chrostowski	Grade 8	Town Stamford

Greenwich Greenwich Catholic School Carol Lutz

1018	LT	1	Factor Fiction
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Student(s)	Carmelia Zuniga	Grade 8	Town Stamford
	Emily Cook	Grade 8	Town Stamford
	Catherine May	Grade 8	Town Stamford

- * The Jackson Laboratory Life Sciences Awards --- 2nd Place- Life Sciences MS Team- \$100 each & trophy and Invite Compete Broadcom MASTERS

Greenwich Greenwich Country Day School Sam Rosenfeld

5553	P8	1	Tracking Plastic Bottles on Blockchain - Better Environmental Policies and Accountability through Economic and Accurate, Real-Time Management
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Student(s)	C. Brooks Harris	Grade 8	Town Greenwich
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- * Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences 8th Grade Ind. - trophy and Invitation Compete in Broadcom MASTERS
- * People's United Bank Mathematics Awards - with ATOMIC --- 1st Place Middle School- \$150 from ATOMIC, and Trophy, \$300 from People's United Bank
- * Computer Science Awards --- 1st Place Middle School - \$300, Trophy and Medallion
- * Society of Women Engineers - Hartford Section --- Scientific Calculator

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

Greenwich Greenwich High School Andrew Bramante

6047	PS	1	A Green Nanotechnological Approach for Energy Efficiency and Conservation: Tungsten-doped Vanadium Dioxide Thermochromic Smart Windows
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Student(s) Cynthia Chen **Grade** 11 **Town** Riverside

- * Lockheed Martin Physical Sciences Awards --- 1st Place - Physical Sciences Senior High Individual - \$500 & Plaque
- * Future Sustainability Awards --- 2nd Place High School - \$300 Cash and Plaque
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering in partnership with CCAT --- Physical Sciences 1st HS \$1,000, Solid Silver Medal of Excellence, Invite to CASE Annual Mtg

Greenwich Greenwich High School Andrew Bramante

3053	LS	1	A Rapid, Solar-Powered, Portable Breast Cancer Diagnosis via Salivary CA15-3 Detection.
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Student(s) Halla Clausi **Grade** 10 **Town** Cos Cob

- * The Jackson Laboratory Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Future Sustainability Awards --- High School Finalist - Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology Senior High- \$200 & plaque

Greenwich Greenwich High School Andrew Bramante

6068	PS	2	Measuring Convexneses of Electoral Districts Using Graph Theory to Flag Potentially Gerrymandered Districts
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Student(s) Sam Florin **Grade** 10 **Town** Greenwich

- * People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion
- * Computer Science Awards --- 3rd Place High School- \$200, Plaque, Medallion
- * Intel Excellence in Computer Science Award --- \$200 & certificate

Greenwich Greenwich High School Andrew Bramante

6089	PS	1	Single-Use, Insulative Tableware Made from Cornstarch and a Hydrophobic Edible Thin Film, as a Biodegradable Replacement for Styrofoam
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Student(s) Tyler Fox **Grade** 11 **Town** Cos Cob

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Applied Technology Awards --- Senior High Finalist - Medallion
- * Future Sustainability Awards --- High School Finalist - Medallion
- * Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash
- * Connecticut Science Supervisors Association --- \$125 for a high school project
- * Robotics And Beyond --- HS- For Excellence in Material Science- \$200 tor Robotics And Beyond STEM Design Camp or Academy

Greenwich Greenwich High School Andrew Bramante

3093	LS	2	"Magnetically-Positioned, Lipase-Induced Degradation of Arterial Plaques with Simultaneous Smartphone Detection of Post-Dissolution Products."
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Student(s) Hiba Hussain **Grade** 11 **Town** Old Greenwich CT

- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- * Connecticut Association for the Gifted --- Leonardo Davinci Award 9-12 Grade \$50 Gift Certificate
- * University of Hartford --- University of Hartford Scholarship- For Excellence in Engineering, Science or Mathematics \$26,000

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

Greenwich Greenwich High School Andrew Bramante

3007 LS 1 Control of Varroa Destructor Infestation with a Dual-function, Thymol-Emitting Honey Bee Hive

Student(s) Raina Jain **Grade** 11 **Town** Riverside

- * The Jackson Laboratory Life Sciences Awards --- 1st Place- Life Sciences Senior High- \$500 & Plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Environmental Sciences Awards with CACIWC --- 1st Place HS- \$500, Plaque, CACIWC gifts
- * Collins Aerospace Engineering Awards --- 1st Place- Engineering Senior High- \$500 & plaque,
- * H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering in partnership with CCAT --- Life Sciences Senior 1st HS- \$1,000, Solid Silver Medal of Excellence, Invite to CASE Annual Mtg
- * Fuss & O'Neill, Inc. --- \$200 Award for Excellence in Alternative/Renewable Energy
- * University of Hartford --- University of Hartford Scholarship- For Excellence in Engineering, Science or Mathematics \$26,000
- * TurnKey Compliance Solutions Environmental Awards --- \$300 Cash Award High School- For excellence in environmental sciences
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Environmental Science
- * University of Connecticut Academic Excellence Scholarship --- Academic Excellence Scholarship - \$6,500 a year for four academic years- (\$26,000 total)
- * Lunch with a Patent Attorney --- Lunch with a Patent Attorney

Greenwich Greenwich High School Andrew Bramante

3106 LS 1 Rapid, Low-cost, Paper-based Immunosensor for Early Detection of Dengue Virus via Salivary Dengue NS1 Antigen

Student(s) Matthew Jester **Grade** 11 **Town** Greenwich

- * The Jackson Laboratory Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology Senior High- \$500 & plaque
- * Society for In Vitro Biology --- Certificate and \$25 Amazon gift card given by CSEF

Greenwich Greenwich High School Andrew Bramante

3058 LS 2 Design of Melittin Encapsulated PLGA Nanoparticles that Cross the Blood-Brain-Barrier to Target (Lipid Simulated) Cancer Cells

Student(s) Autumn Kim **Grade** 10 **Town** Greenwich

- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

Greenwich Greenwich High School Andrew Bramante

6017 PS 2 Development of Highly-Efficient, Earth-Abundant Crystalline Perovskite - Carbon Film Solar Cells

Student(s) Anne-Emilie Rouffiac **Grade** 11 **Town** Greenwich

- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Future Sustainability Awards --- High School Finalist - Medallion
- * POWER Engineers --- \$200 for "Excellence in Electrical Engineering- emphasis on Power Electronics" - High School
- * Jon Stone Memorial Award --- \$100 cash for Innovative Engineering

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

Greenwich Greenwich High School Andrew Bramante

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

- * Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences Senior High Individual - Plaque
- * Future Sustainability Awards --- High School Finalist - Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition

Greenwich Greenwich High School Andrew Bramante

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

- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology Senior High- \$300 & plaque
- * Society for In Vitro Biology --- Certificate and \$25 Amazon gift card given by CSEF

Greenwich Greenwich High School Mr. Andy Bramante

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

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

Greenwich Greenwich High School Andrew Bramante

6002	PS	2	Simple Creation of Portable Renewable Energy using a Recycled/Repurposed Water Bottle – C. reinhardtii Biophotovoltaic System
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Student(s) Zachary Wang **Grade** 11 **Town** Greenwich

- * Applied Technology Awards --- 3rd Place High School - \$ 200 and Plaque, Medallion
- * Alternative/Renewable Energy Awards --- 3rd Place High School - \$200 Cash and Plaque
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, air pollution related
- * University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Frontiers in Science - Co-Op \$100 Gift Certificate

Greenwich Greenwich High School Andrew Bramante

3030	LS	1	Rapid, Smartphone-Based Diagnosis of Skin Melanoma through Differences in Tumor Cell Thermal Regulation Combined with Diffuse Spectroscopic Analysis
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Student(s) Melissa Woo **Grade** 11 **Town** Riverside

- * The Jackson Laboratory Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Collins Aerospace Engineering Awards --- 2nd Place- Engineering Senior High- \$400 & plaque
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology Senior High- \$1000 & plaque,
- * Lunch with a Patent Attorney --- Lunch with a Patent Attorney

Greenwich Greenwich High School Andrew Bramante

3022	LS	2	Early Diagnosis and Tracking of Parkinson's Disease via Supervised Machine Learning Algorithms
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Student(s) Kyle Xiong **Grade** 11 **Town** Riverside

- * People's United Bank Mathematics Awards - with ATOMIC --- 3rd Place High School - Plaque, \$200 from People's United Bank
- * IEEE, Connecticut Section --- \$100 Honorable Mention

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

Groton Sacred Heart School Dr. Juan Pacheco

5523 P8 1 Building a Better Hearing Aid Using Noise Cancellation

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

- * Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences 8th Grade Ind, - \$100 & trophy, invite to compete Broadcom MASTERS
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * Applied Technology Awards --- 1st Place Middle School - \$300 and Trophy, Medallion
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology 8th grade- trophy and Invitation Compete in Broadcom MASTERS
- * American Society of Safety Professionals, CT Valley Chapter --- \$100 grade 7-8 project
- * IEEE, Connecticut Section --- \$250 Honors Award -Junior
- * Connecticut Academy of Audiology --- \$200 Award HS- For Excellence in Audiology and Acoustics, opport. to shadow an audiologist
- * Broadcom MASTERS --- The Lemelson Early Inventor Prize
- * Zepke Awards --- \$100 - For the Best Use of Electronic Circuitry- Middle School

Groton Sacred Heart School Dr. Pacheco

2513 L8 3 Which fruit contains the most vitamin c?

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

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

Hamden Hamden Hall Country Day School Dr. Gasparro

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

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

- * The Jackson Laboratory Life Sciences Awards --- 3rd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- Middle School- \$200 / trophy
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology 7th grade- trophy
- * Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School Life Sciences

Hamden Hamden High School Sophia Michalatos

6004 PS 2 Diagnosing Parkinson's Disease with Artificial Intelligence

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

- * CASE • PepsiCo Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion
- * Computer Science Awards --- Senior High Finalist - Medallion
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * Biophysical Society --- Biophysics Award- \$100

Hamden Sacred Heart Academy Pam Brownell

6503 PST 2 Creation of a Fire Resistant Membrane in the Makeup of a Wall

Student(s) Mia Celentano **Grade 10** **Town** Hamden
 Aliya Cameron **Grade 10** **Town** Hamden

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

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Hamden	Sacred Heart Academy	Dr. Sibani Sengupta	3110	LS	2	Exploring the World of Healing Herbs: Comparison of Antibacterial Properties in Coriandem Sativum, Ocimum Basilicum and Rosmarinus Officinalis		
			Student(s)		Mehr Chhatre	Grade 9	Town	Hamden
<ul style="list-style-type: none"> * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR * Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to Awards Night Dinner with guest * Sister Mary Christine Life Sciences Award --- \$150 for excellence in the life sciences by a catholic high school project * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Microbiology 								
Hamden	Sacred Heart Academy	Mrs. Brownell	6076	PS	2	Extending the Life Expectancy of Fruits		
			Student(s)		Julianna Corniello	Grade 10	Town	northford
Hamden	Sacred Heart Academy	Katherine Tubis	6085	PS	3	Green, Clean, Solar Machine: An effective and Natural Way to Clean Solar Panels		
			Student(s)		Julia DiAngelo	Grade 9	Town	Wallingford
* Tunxis Community College --- \$623 Course Tuition Voucher for HS Senior Sustainable Energy Project								
Hamden	Sacred Heart Academy	Sibani Sengupta	3073	LS	3	In Search of the Perfect Broth : Investigating the Effect of Cook Time on Glutamate levels in Bone Broth		
			Student(s)		Nikita Khanna	Grade 9	Town	Derby
* Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to Awards Night Dinner with guest								
Hamden	Sacred Heart Academy	Dr. Sibani Sengupta	3044	LS	2	The Effect of Sucrose on Inhibiting Photosynthetic Pigments Found in Invasive Algae		
			Student(s)		Julianna Milidantri	Grade 11	Town	Durham
* Southeastern New England Marine Educators (SEMEME) --- \$100 award and membership in SEMEME - 1st Place Senior & T-Shirt								
Hamden	Sacred Heart Academy	Pamela Brownell	6095	PS	2	Is There a Sliver of Reason Behind Metals in Rosin		
			Student(s)		Kristine Roy	Grade 10	Town	Wallingford
Hamden	Sacred Heart Academy	Sibani Sengupta	3006	LS	3	Investigating APOE Gene Expression in Cancer & Alzheimer's Patients: A Bioinformatics Study		
			Student(s)		Adalyn Schommer	Grade 11	Town	Cheshire
Hamden	Sacred Heart Academy	Dr. Elizabeth Christophy	3055	LS	3	Oysters: The Forgotten Filters		
			Student(s)		Julia Tangari	Grade 10	Town	Wallingford

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Hartford	Environmental Sciences Magnet School at Mary	Rebecca Hays	5019	P7	3	Grow Plant Grow		
Student(s) Prithvik Kalidasan							Grade 7	Town Rocky Hill
Hartford	Environmental Sciences Magnet School at Mary	Rebecca Hays	5023	P7	3	Just The Surface		
Student(s) Saul Lawrence							Grade 7	Town Windsor
Hartford	Environmental Sciences Magnet School at Mary	Mr.Clark	5521	P8	3	Watch Out		
Student(s) Mellisa Lopez							Grade 8	Town Hartford
Hartford	Environmental Sciences Magnet School at Mary	Mr.Clark	2507	L8	2	If People Can Handle Salt, Can Plants?		
Student(s) Faiza Nadeem							Grade 8	Town East Hartford
Hartford	Environmental Sciences Magnet School at Mary	Becca	5551	P8	2	Cool Cups: A study of insulation efficiency in travel mugs		
Student(s) Julio Palas Garcia							Grade 8	Town Hartford
Hartford	Environmental Sciences Magnet School at Mary	Mr.Clark	5544	P8	2	The Battle of The Fabrics		
Student(s) K'Tiannie Rowland							Grade 8	Town Hartford
Hartford	Environmental Sciences Magnet School at Mary	Becca Hays	2527	L8	2	Artemia Vs. Ocean Acidification		
Student(s) Brianna Sanchez							Grade 8	Town enfield
* Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt & cap, First Place Junior								
* Peer-to-Peer Awards --- 8th Grade Life Sciences - \$300 Amazon Gift Card								
Hartford	Renzulli Academy	Raymond Cocola	1007	LT	3	POP! chew on this!		
Student(s) Murthida Salaou							Grade 7	Town Hartford
Student(s) Tierra'Mari Jones							Grade 7	Town New Britain
Hartford	Renzulli Academy	Raymond Cocola	2012	L7	3	Exhausted		
Student(s) Damarion Stanford							Grade 7	Town Hartford
* U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate								

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

Hebron RHAM High School Ms Mitchell
 6075 PS 2 Computer Simulation of Airborne Ultrafine Particles (UFP) Environmental and Socio-Economic Factors on Alzheimer's Mortality Rates
Student(s) Isabelle Benson-Clarke **Grade** 11 **Town** Marlborough

Kent Kent School Ben Nadire
 6048 PS 1 Intuitive Control Algorithm Development of 4WIS/4WID Using A SpaceMouse
Student(s) Taewook Kim **Grade** 11 **Town** Kent

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

Kent Kent School Jesse Klingebiel
 3003 LS 2 Topological Analysis of Protein Folding of LRRK2 Mutants in Parkinson's Disease
Student(s) Anna Su **Grade** 11 **Town** Kent

Manchester Manchester High School Megan Rader
 3076 LS 3 Nitrate absorbing plants effect on acidic water
Student(s) Cambria Andrews **Grade** 12 **Town** Manchester

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition

Manchester Manchester High School Megan Rader
 3024 LS 3 Application of Cyanobacteria Anthrospira Platensis as a Polyfiber Biopaper
Student(s) Tyler Greene **Grade** 12 **Town** Manchester

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * Future Sustainability Awards --- 3rd Place High School - \$200 Cash and Plaque
- * ASM Materials Education Foundation --- Certificate & \$25 gift card given by CSEF
- * Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre

Manchester Manchester High School Ms. Rader
 3018 LS 3 Investigating the Effects of Social Media on Loneliness
Student(s) Jennifer Rivard **Grade** 12 **Town** Manchester

Manchester Saint James School Mary J. Plante
 4017 PT 2 What Material Creates the Most Static Electricity?
Student(s) Ryan Chacaga **Grade** 7 **Town** Vernon
 David LaMonica **Grade** 7 **Town** Manchester

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

Manchester Saint James School Mary J. Plante
 4022 PT 1 THE BERNOULLI EFFECT

Student(s) Carson Herr **Grade 7** **Town** South Windsor
 Andrew Burnham **Grade 7** **Town** Mansfield

* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion

Manchester Saint James School Mary J. Plante
 1002 LT 1 I'm Dyeing to Find Out

Student(s) Marion Patsalides **Grade 7** **Town** Manchester
 Shreya Senthil **Grade 7** **Town** South Windsor

* The Jackson Laboratory Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion
 * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion

Manchester Saint James School Mrs. Plante
 4027 PT 3 What Makes Ice Melt Faster?

Student(s) Holden Riley **Grade 7** **Town** East Hampton
 Benjamin Blackwell **Grade 7** **Town** Manchester

Manchester Saint James School Mary J. Plante
 4030 PT 3 Effects of Different Chemicals to Remove Stains on Clothing

Student(s) Isabel Taclawan **Grade 7** **Town** East Hartford
 Annabelle Krueger **Grade 7** **Town** Willington

Meriden ACES-Thomas Edison STEM Middle School Mrs.Lombardi
 1017 LT 3 What Makes it Grow?

Student(s) Ahella Bedir **Grade 7** **Town** Meriden
 Meryam Atid **Grade 7** **Town** Meriden
 Nora Elsaadani **Grade 7** **Town** Meriden

Meriden ACES-Thomas Edison STEM Middle School Caitlin Lombardi
 1021 LT 1 Does Water Temperature Affect Plant Growth

Student(s) Karry Guo **Grade 7** **Town** Middletown
 Alyssa Arce **Grade 7** **Town** Meriden

* The Jackson Laboratory Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion

Meriden ACES-Thomas Edison STEM Middle School Caitlin Lombardi
 1008 LT 2 What is better: Greenhouses or hydroponics?

Student(s) Daren Johnson **Grade 7** **Town** Meriden
 Gabriel Panora **Grade 7** **Town** Meriden

Conn. Science & Engineering Fair

Winning Projects

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Meriden	ACES-Thomas Edison STEM Middle School	Caitlin Lombardi	5529	P8	3	Blown Away		
						Student(s) Haley Jordan		Grade 8 Town Meriden
Meriden	ACES-Thomas Edison STEM Middle School	Caitlin Lombardi	1013	LT	3	Water filtration methods		
						Student(s) Eve Lapointe		Grade 7 Town Meriden
						Naima Islam		Grade 7 Town Meriden
Meriden	ACES-Thomas Edison STEM Middle School	Caitlin Lombardi	4032	PT	3	Paper Towel Strength		
						Student(s) Candida Meza		Grade 8 Town Meriden
						Verenice Reyes		Grade 8 Town Meriden
Meriden	ACES-Thomas Edison STEM Middle School	Anker	1003	LT	1	Natural Sugar Banana Count		
						Student(s) Alyssa Tack		Grade 8 Town meriden
						Giuliana Mazzarelli		Grade 8 Town Waterbury
* The Jackson Laboratory Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion								
Meriden	ACES-Thomas Edison STEM Middle School	Caitlin Lombardi	2022	L7	2	Electric Food		
						Student(s) Julian Valentin		Grade 7 Town meriden
Meriden	ACES-Thomas Edison STEM Middle School	Heidi Everett-Cacopardo	2533	L8	3	Dirty sponges: investigating microbial growth on different sponge materials		
						Student(s) Arielle Vargas		Grade 8 Town Waterbury
Meriden	Our Lady of Mount Carmel	Mrs. Shemkovitz	4020	PT	3	Measuring the variability in the strength between plexiglass and wood.		
						Student(s) Lindsay Amenta		Grade 8 Town Meriden
						Kush Patel		Grade 8 Town Meriden
Meriden	Our Lady of Mount Carmel	Mrs. Shemkovitz	4011	PT	2	Do Expensive Brand Name Apple Phone Chargers Charge Faster Than Less Expensive Third Party iPhone Chargers?		
						Student(s) Katelyn Feest		Grade 8 Town Meriden
						Emma Ormsby		Grade 8 Town Meriden
						Nicole Murzyn		Grade 8 Town Meriden

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

Meriden Our Lady of Mount Carmel Mrs. Shemkovitz
 1019 LT 3 Can dry dog food support the growth of a plant?
Student(s) Calvin Henderson **Grade 8** **Town** Meriden
 Michael O'Connor **Grade 8** **Town** Meriden
 Marcellino Sabino **Grade 8** **Town** West haven

Meriden Our Lady of Mount Carmel Mrs. Shemkovitz
 1010 LT 3 Which Soda Can Start Up Decomposition the Fastest
Student(s) Wesley Ong **Grade 8** **Town** Middletown
 Gabby Cioffi **Grade 8** **Town** Meriden
 Sophia Papciak **Grade 8** **Town** Meriden

Milford Jonathan Law High School Tracy Turcotte
 3012 LS 3 How could medications intended to cure Ebola through the NPC1 protein, negatively effect our bodies by latching onto different proteins?
Student(s) Rachna Vipparla **Grade 10** **Town** Milford

Milford Platt Technical High School Mrs. Stamp
 6528 PST 2 Flood Remediation In-House Dehumidification System
Student(s) Alain Bolduc **Grade 11** **Town** Milford
 Adam-Nathaniel Soltis **Grade 11** **Town** Stratford
 Scott Clark **Grade 12** **Town** milford

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

Milford Platt Technical High School Jessica Stamp
 6524 PST 2 Natural Disaster Relief Housing
Student(s) Victoria St. Peter **Grade 10** **Town** Hamden
 Alyssa Ciarleglio **Grade 10** **Town** West Haven
 Johanatis Rivera **Grade 11** **Town** Bridgeport

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

New Britain Goodwin Technical High School Caitlin McIlveen
 3517 LST 2 Cosmic Powered Microbe Water Filtration System
Student(s) Michael Lopez **Grade 11** **Town** Bristol
 Jason Folcik **Grade 11** **Town** bristol
 Jamaris Rivera **Grade 11** **Town** New Britain

Conn. Science & Engineering Fair

Winning Projects

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

New Canaan St. Aloysius School Deborah Phillips

5011 P7 3 Remote Control Ceiling Car

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

- * Collins Aerospace Engineering Awards --- 2nd Place- Engineering MS- \$200 & trophy and Invitation Compete in Broadcom MASTERS
- * Barker Mohandas Awards for Transportation Research --- \$100 Cash & Plaque for Excellence in Transportation Related Research- Middle School
- * John S. Kendall Memorial Awards --- \$300 John S. Kendall Award for Excellence In Mechanical Engineering - Middle School

New Haven Betsy Ross Arts Magnet School Katarzyna Cichus

5513 P8 2 Friction Frenzy

Student(s) Sydney Herard **Grade 8** **Town** East Haven

New Haven Betsy Ross Arts Magnet School Ms Macdonald

2008 L7 3 Salty Plants

Student(s) Julia Murphy **Grade 7** **Town** Stratford

- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 4th Place Middle School - Trophy, Medallion
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology 7th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS

New Haven Betsy Ross Arts Magnet School Roisin Macdonald

2532 L8 1 From Clean to Clean

Student(s) Matilda Pethrick **Grade 8** **Town** Stratford

- * The Jackson Laboratory Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion
- * U.S. Metric Association --- Certificate & \$25 Amazon gift card given by CSEF
- * Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum

New Haven Engineering and Science University Magnet School Roger Rushworth

6082 PS 2 The Effect of Continuous External Stimuli on Human Time Perception

Student(s) Aiman-Imran Anuar **Grade 9** **Town** West Haven

New Haven Engineering and Science University Magnet School Roger Rushworth

6513 PST 2 The Effect of Spatial Attention on Oratorical Performance

Student(s) Patricia Joseph **Grade 9** **Town** Hamden
 Maryam Shabazz **Grade 9** **Town** West Haven

New Haven Engineering and Science University Magnet School Roger Rushworth

3067 LS 3 The effect of heavy metals on plants with varying adapted environments

Student(s) Kawtar Nadama **Grade 9** **Town** West Haven

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

New Haven Engineering and Science University Magnet School Roger Rushworth
 6502 PST 3 Faster and efficient ocean salt remover
Student(s) Brandon Parson **Grade 9** **Town** New Haven
 Alexander Potter **Grade 9** **Town** West haven

New Haven Hopkins School Philip Stewart
 3107 LS 1 Finding a therapy for Wolfram Syndrome: Exploring a calcium signaling pathway as a target for a disease without a cure.
Student(s) Saira Munshani **Grade 11** **Town** Easton

* The Jackson Laboratory Life Sciences Awards --- 3rd Place- Life Sciences Senior High- \$200 & Plaque
 * Society for In Vitro Biology --- Certificate and \$25 Amazon gift card given by CSEF

New Haven Hopkins School Prof. Wei Zhu
 3075 LS 2 Combinations of Phloroglucinol, Kaempferol, 3,5 Dimethoxyphenol and 1,3,5 Trimethoxybenzene as Novel Treatments for Non-Hodgkin Lymphoma
Student(s) David Zhou **Grade 10** **Town** Westport

New Haven St. Bernadette School Kerry Martens
 5547 P8 3 What Local Town is the Best for Stargazing?
Student(s) Grace Gogliettino **Grade 8** **Town** New Haven

* Astronomical Society of Greater Hartford --- Junior Project-\$150, subscription to Sky and Telescope, ASGH membership and meeting invitation

New Haven St. Bernadette School Mr. Martens
 5026 P7 2 Is a Beam Bridge stronger than a Suspension Bridge?
Student(s) Alex Goodwin **Grade 7** **Town** East Haven

New Haven Wilbur Cross High School Nick Farrell
 3052 LS 1 Developing a Functional Tracheal Replacement Graft: Studying the Effects of Graft Stiffness on Host Response
Student(s) Sophie Edelstein **Grade 12** **Town** New Haven

* The Jackson Laboratory Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 * CASE • PepsiCo Urban School Challenge Awards with IBM --- 2nd Place High School - \$400 and Plaque, Medallion
 * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 * Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- \$100 & plaque
 * Otero Family Award --- The Otero Family Award; \$200 cash
 * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Biochemistry
 * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2019 Invention Convention, May 4

New Haven Wilbur Cross High School Brendan Hare
 6054 PS 2 Designing an Integrated System for Biofeedback Measurement
Student(s) Carlin Eswarakumar **Grade 12** **Town** New Haven

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

New Haven Wilbur Cross High School Brendan Hare

3020 LS 1 Association of Music Perception and Memory

Student(s) Alexandra Northrup **Grade** 10 **Town** New Haven

- * The Jackson Laboratory Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion
- * American Psychological Association --- Certificate, \$25 gift card given by CSEF

New Haven Worthington Hooker Middle School Mr. Jones

4014 PT 3 Off to the Starch Races

Student(s) Sophia Arnaut **Grade** 8 **Town** New Haven
 Alexander Robinson **Grade** 8 **Town** New Haven

New Haven Worthington Hooker Middle School Mr. Jones

5540 P8 1 Saving The Ocean: 700,000 Microplastics at a Time

Student(s) Athena Brown **Grade** 8 **Town** New Haven

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 5th Place Middle School - Trophy, Medallion
- * Applied Technology Awards --- 2nd Place Middle School - \$200 and Trophy, Medallion
- * Society of Women Engineers - Hartford Section --- Scientific Calculator

New Haven Worthington Hooker Middle School Mr. Jones

2017 L7 2 Melting Ice for a Living, Killing Plants on the Side

Student(s) Kate Kim **Grade** 7 **Town** New Haven

New Haven Worthington Hooker Middle School Mr. Jones

4006 PT 3 Cold Pack Chemistry

Student(s) Maisie Moreland **Grade** 7 **Town** New Haven
 Nia Lampley **Grade** 7 **Town** New Haven

New Haven Worthington Hooker Middle School Mr. Jones

1015 LT 3 The Greenhouse Effect

Student(s) Hannah Ziesche **Grade** 7 **Town** New Haven
 Lucy June Dunn **Grade** 7 **Town** New Haven

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

New London Science and Technology Magnet High School Charles Mulligan

6514 PST 2 Thermal Performance of Alternatives to Silicone Based Thermal Interface Materials

Student(s) Zachary Bachofner **Grade** 10 **Town** North Stonington
 Adam Bryant **Grade** 10 **Town** Pawcatuck

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

New London Science and Technology Magnet High School Isabella Moniz

3070 LS 1 The Correlation Between Nitrogenous Species and the Aboveground and Belowground Biomass of *Spartina alterniflora* (common cordgrass) in a restored Salt Marsh, Barn Island, CT

Student(s) Sara Bouchard **Grade** 11 **Town** Waterford

- * The Jackson Laboratory Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 5th Place High School - Plaque, Medallion
- * Environmental Sciences Awards with CACIWC --- 2nd Place HS- \$200, Plaque, CACIWC gifts
- * Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash
- * Yale Peabody Museum --- One-Year Family Membership to the Yale Peabody Museum
- * Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt & cap, First Place Senior
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 2nd Place HS Environmental Project
- * NYUC Pony Club Equine Award --- \$100 Cash Award or excellence in equine studies
- * Fox Pest Control Award for Environmental Management --- \$150 Cash for Excellence in Environmental Management

New London Science and Technology Magnet High School Mr.Brown

3011 LS 3 The Effects of Negative Thermal Stress on the Germination of Invasive Ornamental Seeds in Connecticut

Student(s) Elizabeth Brown **Grade** 9 **Town** Ledyard

New London Science and Technology Magnet High School Mr.Mulligan

6034 PS 3 Correlations Between Home Insulator Composition and Potential Heat Retention

Student(s) Jaylen Callender **Grade** 10 **Town** uncasville

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

New London Science and Technology Magnet High School Charles Mulligan

3511 LST 2 Cigarette vs. E-Cigarette Affect on Lungs

Student(s) Bryson Doughty **Grade** 10 **Town** New London
 Alex DeGunia **Grade** 10 **Town** Waterford

New London Science and Technology Magnet High School Mr.Brown

3045 LS 2 Phytoremediation of Lead-Contaminated Water by Sunflowers

Student(s) Laurelou Doyonnas **Grade** 9 **Town** Mystic

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

New London Science and Technology Magnet High School Mr. Brown

3078 LS 3 Optimal brownfield environment for sunflower growth

Student(s) Giovanni Galatioto **Grade** 10 **Town** New London

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
New London	Science and Technology Magnet High School	Charles Mulligan	3021	LS	1	The Efficiency Of Copper Removal Using Phytoremediation Techniques		
					Student(s)	Skylar Hatter	Grade 10	Town GROTON
<ul style="list-style-type: none"> * The Jackson Laboratory Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion * Future Sustainability Awards --- High School Finalist - Medallion * University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Life Sciences - Co-Op \$100 Gift Certificate 								
New London	Science and Technology Magnet High School	Mr. Mulligan	6069	PS	2	ALTERNATIVE ACOUSTIC ABSORBING MATERIALS AND THEIR EFFICIENCY OF DECREASING ACOUSTIC VOLUME		
					Student(s)	Essoha Kadambaya	Grade 10	Town Norwich
New London	Science and Technology Magnet High School	David Brown	6028	PS	3	The Impact of Sugarcane on the Demineralization of Teeth		
					Student(s)	Mary Lembree	Grade 9	Town East Lyme
New London	Science and Technology Magnet High School	Mrs. Moniz	3065	LS	3	Acid Rain Effects on Marigolds		
					Student(s)	Madison Moran	Grade 11	Town Uncasville
New London	Science and Technology Magnet High School	Mrs. Moniz	6015	PS	3	The Effectiveness of an Inline Sodium Hydroxide (NaOH) Scrubber to Remove CO2 from Car Emissions		
					Student(s)	Derek Raymond	Grade 11	Town Mystic
New London	Science and Technology Magnet High School	Mr. Mulligan	3016	LS	2	Effects of the Acidic Components of Acid Deposition on the Growth of Raphanus Sativus (Radishes)		
					Student(s)	Emilia Skrabacz	Grade 10	Town New London
New London	Science and Technology Magnet High School	Charles Mulligan	3035	LS	3	Flu Strain and Vaccine DNA Sequence Similarity and Its Effect On the Season's Outcome: A Predictive Model		
					Student(s)	Finella Smith	Grade 10	Town Pawcatuck
New London	Science and Technology Magnet High School	Mulligan	3091	LS	3	How Does Different Atmosphere Temperatures Affect Plant Growth		
					Student(s)	Zachary Verraneault	Grade 10	Town Griswold

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

New London Science and Technology Magnet High School David Brown

3087 LS 3 Testing how Environmental Factors Affect the Decomposition Rates and pH levels of Common Household Materials

Student(s) Anissah White **Grade 9** **Town** New London

Newtown St. Rose of Lima School Mrs. Valerie Petrillo

5029 P7 1 How Does the Shape of an Airplane Affect Its Speed and Lift?

Student(s) Rohan Carey **Grade 7** **Town** Sandy Hook

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

Newtown St. Rose of Lima School Valerie Petrillo

5004 P7 3 How Much Glucose Is In That?

Student(s) Ava Faruol **Grade 7** **Town** Brookfield

Newtown St. Rose of Lima School Mrs. Valerie Petrillo

5009 P7 3 Which substance makes ice crystals the fastest?

Student(s) Joshua Schumacher **Grade 7** **Town** Sandy Hook

Norwich Norwich Free Academy Jason Croteau

6507 PST 2 power plants how to increase efficiency

Student(s) Simon Carle **Grade 10** **Town** Norwich
 Ibrahim Hasson **Grade 10** **Town** Norwich

Norwich Norwich Technical High School Ernest Todd

6527 PST 3 Robotic Talking Head

Student(s) Briana Diskin **Grade 11** **Town** Norwich
 Justin Relaz **Grade 12** **Town** Norwich

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

Norwich Norwich Technical High School Aleatha Pelloni

3518 LST 1 Effects of Metformin on the Regeneration in Planarians

Student(s) Leslie Garcia **Grade 11** **Town** Taftville
 Angela Datilus **Grade 11** **Town** Norwich

- * The Jackson Laboratory Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion

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

Norwich Norwich Technical High School Ms. Pelloni
 3507 LST 1 Generation of probiotic strains with increased lactose degradation capabilities for lactose-free yogurt production

Student(s)	Jace Goodrow	Grade 11	Town Lisbon
	Michel Hernandez	Grade 11	Town Norwich
	Hailey Bill	Grade 12	Town Baltic

* The Jackson Laboratory Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion
 * Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to Awards Night Dinner with guest

Norwich Norwich Technical High School Jesse Morin
 3504 LST 3 Developing a Vertical Aquaponic Garden that is not Reliant on an Electrical Source

Student(s)	Samantha Grott	Grade 12	Town Bozrah
	John Coleman	Grade 12	Town Norwich
	Aaron Toof	Grade 12	Town Voluntown

Norwich Norwich Technical High School Jesse Morin
 3510 LST 3 The Effect of Caffeine on Learning and Memory in C. Elegans

Student(s)	Emerald Haller	Grade 12	Town Preston
	Nathanael Padgett	Grade 12	Town Lebanon

Norwich Norwich Technical High School Aleatha Pelloni
 3501 LST 2 The Effect of the PRK-2 Gene on Cancer-Related Pathways in C. elegans using Mitoxantrone, which Inhibits the Human Homolog of PRK-2, PIM-1 Genes.

Student(s)	Dakota Ladd	Grade 11	Town Taftville
	Dylan Jencks	Grade 11	Town Lisbon
	Ashley Czech	Grade 12	Town Colchester

Norwich Norwich Technical High School Aleatha Pelloni
 3522 LST 1 The Effect of Biochar on Microbial Growth and Plant Growth

Student(s)	Jared Michaud	Grade 11	Town Norwich
	Douglas Rediger	Grade 12	Town Hanover
	Joshua McConnell	Grade 12	Town Baltic

* The Jackson Laboratory Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion

Norwich Norwich Technical High School Jesse Morin
 3514 LST 3 Developing a Biopesticide BT Strain Both More Resistant to UV Rays and More Effective Against Agricultural Lepidopteran Pests

Student(s)	Kelsey Williams	Grade 12	Town Gales Ferry
	Edward Russell	Grade 12	Town Colchester

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

Pawcatuck St. Michael School Mrs. Anna-Helene Grossomanides
 5033 P7 2 Agar vs. Gelatin in Diffusion
Student(s) Rebecca Benin **Grade 7** **Town** Pawcatuck

Pawcatuck St. Michael School Anna-Helene Grossomanides
 5006 P7 1 LEGO MINDSTORMS EV3 - Can Accuracy Be Improved?
Student(s) Matthew Drago **Grade 7** **Town** Pawcatuck

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion
- * Applied Technology Awards --- Middle School Finalist - Medallion
- * Computer Science Awards --- Middle School Finalist - Medallion

Pawcatuck St. Michael School Anna-Helena Grossomanides
 5511 P8 3 How do boats hydrofoil?
Student(s) Dylan Flack **Grade 8** **Town** Stonington

Pawcatuck St. Michael School Anna-Helene Grossomanides
 5501 P8 3 Forces on a Sailboat
Student(s) Molly Kulick **Grade 8** **Town** MYSTIC

Pawcatuck St. Michael School Anna-Helene Grossomanides
 2007 L7 1 The Articulated Hand
Student(s) Lauren Vossler **Grade 7** **Town** Pawcatuck

- * The Jackson Laboratory Life Sciences Awards --- 5rd Place- Life Sciences 7th grade- trophy
- * Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

Redding CT STEM Fair - Amity Regional High School Deborah Day
 3002 LS 3 Comparing the Extent of the Effect of Peer Pressure and Autonomy Support in High School Students and Teachers
Student(s) Andrew Kim **Grade 10** **Town** Woodbridge

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

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

Redding CT STEM Fair - Amity Regional High School Catherine Piscitelli
 3098 LS 3 Using Artificial Neural Network Machine Learning Algorithms to Detect Melanoma Skin Lesions
Student(s) Keri Tenerowicz **Grade 12** **Town** Bethany

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

Redding CT STEM Fair - Amity Regional High School Deborah Day

6005	PS	2	Real-Time Sinkhole detection using Civil Engineering techniques, the Internet of Things (IoT), and Artificial Intelligence
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Student(s) Sophia Wang **Grade** 11 **Town** Woodbridge

- * Applied Technology Awards --- 1st Place High School - \$500 and Plaque, Medallion
- * Computer Science Awards --- Senior High Finalist - Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * Yale Science & Engineering Association, Inc. --- 1 Certificate, Medallion and 1- \$25 gift card given by CSEF
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Geology/Historic Project of Merit Award --- \$50 - Earth Science - Field work with Geologic or historic value
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2019 Invention Convention, May 4

Redding CT STEM Fair - Greenwich High School Andrew Bramante

6090	PS	1	Al(III)-Mediated Ionic Conduction in New Abundant Metakaolin Solid Electrolyte for Safe, Efficient Power Grid Na-Ion Batteries
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Student(s) Alexander Kosyakov **Grade** 12 **Town** Riverside

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & Plaque
- * Alternative/Renewable Energy Awards --- High School Finalist - 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

Redding CT STEM Fair - Greenwich High School Andrew Bramante

6024	PS	1	Open-source, In-field Android and iOS Detection and Mapping of Waterborne Diseases via Time-Based Spectroscopic Sensing and RGB Luminance with a New 3D Printable Optical Interface
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Student(s) Nicholas Liu **Grade** 12 **Town** Greenwich

- * Lockheed Martin Physical Sciences Awards --- 5th Place- Physical Sciences Senior High Individual - Plaque
- * Applied Technology Awards --- Senior High Finalist - Medallion
- * Computer Science Awards --- Senior High Finalist - Medallion

Redding CT STEM Fair - Staples High School Karen Thompson

3085	LS	2	Non-invasive, Early Detection of Invasive Ductal Carcinoma (IDC) via Deep Convolutional Neural Networks Using Breast Cancer Histology Images
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Student(s) Aniruddha Murali **Grade** 12 **Town** Westport

Redding Joel Barlow High School Paul Testa

3077	LS	1	Detrimental Ecological Impacts on Eruca Vesicaria Sativa
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Student(s) Olivia Fassman **Grade** 11 **Town** Redding

- * The Jackson Laboratory Life Sciences Awards --- 5th Place- Life Sciences Senior High- Plaque

Redding Joel Barlow High School Dr. Katherine Nuzzo

3109	LS	3	Capacity of Nymphacaceae for Phytomediation of Zn in Freshener Applications
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Student(s) Christopher Gomolak **Grade** 12 **Town** Easton

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

Redding Joel Barlow High School Paul Testa
 3017 LS 3 Investigating the Effects of Different Sound Frequency and Water Levels on the Growth of the Common Bean Plant (*Phaseolus vulgaris*)
Student(s) Cameron Hirsch **Grade** 11 **Town** Redding

Redding Joel Barlow High School Katherine Nuzzo
 3032 LS 2 The effect of inoculating Rhizobium bacteria into *Helianthus annuus* L. to increase drought tolerance.
Student(s) Kathryn Liu **Grade** 11 **Town** Easton

* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
 * Future Sustainability Awards --- High School Finalist - Medallion

Redding Joel Barlow High School Dr. Katherine Nuzzo
 3066 LS 3 Association of Tachycardia in Academic Performance in Youth
Student(s) Madeleine McHale **Grade** 11 **Town** Redding

Redding Joel Barlow High School Paul Testa
 6525 PST 3 The Real-Time Dynamic Classification of American Sign Language with a System of 2D and 3D Convolutional Neural Networks
Student(s) Sean McHale **Grade** 11 **Town** Redding
 Kol Crooks **Grade** 11 **Town** Redding

Redding Joel Barlow High School Paul Testa
 3061 LS 1 The effect of Deuterium oxide (D2O) on the viability of Coliphage bacteriophages under Low temperatures as a model for stability in live attenuated viral vaccines
Student(s) Annika Morgan **Grade** 12 **Town** Redding

* The Jackson Laboratory Life Sciences Awards --- 4th Place- Life Sciences Senior High- Plaque
 * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
 * Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Life Sciences
 * Peer-to-Peer Awards --- High School Life Sciences - \$300 Amazon Gift Card

Redding Joel Barlow High School Paul Testa
 3023 LS 2 Novel, Non Covalent Inhibitors of TEM-1 Beta Lactamase
Student(s) Owen O'Reilly **Grade** 11 **Town** Redding

Redding Joel Barlow High School Paul Testa
 3049 LS 2 Analysis of PHA Plastic Biodegradation in Marine Environments
Student(s) Zachary Shortt **Grade** 11 **Town** Easton

* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
 * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
 * Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum

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

Redding Joel Barlow High School Paul Testa
 6030 PS 3 Effects of Sulfides on Atmosphere
Student(s) Matthew Sun **Grade 11** **Town** Redding

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

Ridgefield Ridgefield High School Ryan Gleason
 6016 PS 3 Single Stage to Orbit Spaceplane Utilizing Hybrid Propulsion Design Study
Student(s) Josh Burns **Grade 12** **Town** Ridgefield

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

Ridgefield Ridgefield High School Mr. Ryan Gleason
 3034 LS 2 Testing the limits of eDNA preservation
Student(s) Rebecca Cohen **Grade 12** **Town** Ridgefield

Ridgefield Ridgefield High School Patrick Hughes
 3008 LS 3 Investigating the Role of Substance P in Reducing Hunger Signals in Anorexia Nervosa
Student(s) Sophia Haber **Grade 12** **Town** Ridgefield

Ridgefield Ridgefield High School Ryan Gleason
 3095 LS 2 Determining the Potential of an Encapsulin-Ferritin System as a Reporter for Magnetic Resonance Imaging
Student(s) Katharine King **Grade 12** **Town** Ridgefield

Ridgefield Ridgefield High School Patrick Hughes
 3515 LST 2 The analysis of lead in water samples using the SCiO handheld scanner
Student(s) Samantha Margolin **Grade 12** **Town** Ridgefield
Anna Doman **Grade 12** **Town** Ridgefield

Salisbury Salisbury School Tobias Ayer
 6055 PS 2 The development of a dynamic vehicle sound absorption device using a variable Helmholtz resonator
Student(s) Jaeho Sung **Grade 11** **Town** Salisbury

Sandy Hook Newtown High School Timothy DeJulio
 6083 PS 2 Computational Fluid Dynamics Study of Turbulence
Student(s) Bryan Ingwersen **Grade 12** **Town** Sandy Hook

- * Computer Science Awards --- Senior High Finalist - Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
- * John S. Kendall Memorial Awards --- \$500 John S. Kendall Award for Excellence In Mechanical Engineering - High School
- * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

Conn. Science & Engineering Fair

Winning Projects

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Sandy Hook	Newtown High School	Mr. DeJulio	3026	LS	2	The Study of Applied Bioinformatics		
Student(s) Timothy White							Grade 12	Town Newtown
Shelton	Shelton High School	Ernest Pagliaro	6061	PS	2	The Clean Water Project		
Student(s) Michael DeLeo							Grade 10	Town Shelton
Shelton	Shelton High School	James McDougal	6087	PS	2	Sky Sugar: Engineering Biodegradable and Edible Balloons		
Student(s) David Ferrara							Grade 12	Town Shelton
Shelton	Shelton High School	Patricia Presutto	6035	PS	3	A Comparative Analysis of R and SPSS on Panel and Cross-sectional Data for Labor Cost over Thirty Years		
Student(s) Siddharth Jain							Grade 11	Town Shelton
Shelton	Shelton High School	Ms. Lichtenberger	3079	LS	3	The Helping Hand		
Student(s) Sanya Oak							Grade 9	Town SHELTON
Shelton	Shelton High School	Ernest Pagliaro	6021	PS	3	Clean Screen		
Student(s) Kyle Young							Grade 11	Town Shelton
* Applied Technology Awards --- Senior High Finalist - Medallion								
* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2019 Invention Convention, May 4								
Shelton	Shelton Intermediate School	Mrs. Magnan	5527	P8	3	Testing Airfoils in a Wind Tunnel		
Student(s) Benjamin DeMartino							Grade 8	Town Shelton
Shelton	Shelton Intermediate School	Adam Rudman	4003	PT	3	Rock Candy Science		
Student(s) McBenedict Mweze							Grade 7	Town Shelton
Mikhail Rodov							Grade 7	Town Shelton

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

Shelton Shelton Intermediate School Dr. Napoli
 5554 P8 2 Power Up Baseball Hits

Student(s) Kenneth Supersano **Grade 8** **Town** Shelton

* Samantha Freeman Award for Excellence in Sports Science or Engineering --- For Excellence in Sports Science or Engineering by a Middle School student, \$125 cash

South Windsor South Windsor High School Jim Chin
 3523 LST 3 Compact, automated farm for anywhere and any time

Student(s) Matthew Chin **Grade 9** **Town** South Windsor
 Kashyap Rao **Grade 9** **Town** South Windsor

Stamford Bi-Cultural Hebrew School Chris Graseck
 2001 L7 3 What Nutrients Help Azolla Grow? How Can We Use This To Fight Climate Change?

Student(s) Esther Goldstein **Grade 7** **Town** Ridgefield

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

Stamford Bi-Cultural Hebrew School Chris Graseck
 1005 LT 2 Is Salt Beneficial for Plant Growth?

Student(s) Ella Hecht **Grade 7** **Town** Stamford
 Nily Genger **Grade 7** **Town** New canaan

Stamford Bi-Cultural Hebrew School Christopher Grasek
 1001 LT 1 Drought Tolerance of Herbs

Student(s) Charlotte Moreen **Grade 7** **Town** Stamford
 Jason Kwalwasser **Grade 7** **Town** Stamford

* The Jackson Laboratory Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion

Stamford Bi-Cultural Hebrew School Chris Graseck
 1012 LT 2 Salt Tolerance of Plants

Student(s) Teresa Weiner **Grade 7** **Town** Stamford
 Samuelle Sendersky **Grade 7** **Town** Samford

Stamford Catholic Academy of Stamford Kieran Hyland
 4010 PT 3 Milk Magic

Student(s) Eden Cheung **Grade 8** **Town** Stamford
 Marcello Labbate **Grade 8** **Town** Greenwich

Conn. Science & Engineering Fair

Winning Projects

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Stamford	Catholic Academy of Stamford	Kieran Hyland	4024	PT	3	Yogurt Ravioli		
						Student(s) Caroline Ellis		Grade 7 Town Stamford
						Lily Murphy		Grade 7 Town Stamford
Stamford	Catholic Academy of Stamford	Kieran Hyland	4018	PT	2	Disappearing Act		
						Student(s) Rachel Janik		Grade 7 Town Stamford
						Oliva Tomas		Grade 7 Town Stamford
Stamford	Catholic Academy of Stamford	Kieran Hyland	4031	PT	3	Juice Balls		
						Student(s) Michele Pannone		Grade 8 Town Stamford
						Samantha Pershqefa		Grade 8 Town Stamford
Stamford	Catholic Academy of Stamford	Kieran Hyland	5002	P7	3	Cabbage Chemistry		
						Student(s) Angelika Rus		Grade 7 Town stamford
Stamford	Scofield Magnet Middle School	Louise McMinn	5022	P7	1	Water Quality of the Rippowam River		
						Student(s) Aryan Pandalai		Grade 7 Town Stamford
								* Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences 7th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
								* Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF
Storrs	E.O. Smith High School	Cheryl Granger	6053	PS	2	Designing an Efficient Roof-Mounted Wind Turbine System		
						Student(s) Mathew Chandy		Grade 10 Town Storrs
								* Alternative/Renewable Energy Awards --- High School Finalist - Medallion
								* Constellation, an Exelon Company --- 2nd: \$100.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy
								* GENIUS Olympiad --- GENIUS Olympiad Competition for HS Environmental, Energy, Ecology, or Biodiversity Project
								* Tunxis Community College --- \$623 Course Tuition Voucher for HS Senior Sustainable Energy Project
Stratford	St. Mark School	Mrs. Olins	2506	L8	2	Going Bananas!		
						Student(s) Skyler Johansen		Grade 8 Town Stratford

Conn. Science & Engineering Fair

Winning Projects

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Stratford	St. Mark School	Mrs. Olins	1009	LT	2	The Quicker Picker Upper?		
		Student(s)				Julia Lacasse	Grade 7	Town Stratford
						Jenny Wu	Grade 7	Town Stratford
Stratford	St. Mark School	Mrs. Lynn Olins	2509	L8	2	Deep Freeze Cell-e-bration (Cell cryopreservation in salt and sugar)		
		Student(s)				Elizabeth Long	Grade 8	Town Milford
								* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
Stratford	St. Mark School	Mrs. Olins	5504	P8	2	Erosion in Motion		
		Student(s)				Peter Pigliucci	Grade 8	Town Shelton
								* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion * Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF
Suffield	Suffield High School	Melanie Brown	6041	PS	3	Mitigating the Waste of Single-Use Plastic Water Bottles Through a Simple Identification System		
		Student(s)				Madison Gadomski	Grade 12	Town West Suffield
Suffield	Suffield High School	Melanie Brown	3060	LS	2	The Effect of Spatial Awareness on the Human Brain		
		Student(s)				Laila Lawson	Grade 10	Town West Suffield
Suffield	Suffield High School	Melanie Brown	6045	PS	3	Water Vehicle Stabilizers Using Weight Adjusting to Wind and Water Currents		
		Student(s)				Ayush Mehta	Grade 9	Town Suffield
Suffield	Suffield High School	Melanie Brown	6038	PS	3	Using motion sensors to help reduce collisions on the ski hill		
		Student(s)				Jack Shanks	Grade 9	Town Suffield Connecticut
Suffield	Suffield High School	Melanie Brown	3524	LST	3	How do electromagnetic forces affect plant growth?		
		Student(s)				Aarya Vasantlal	Grade 9	Town Suffield
						Avie Vasantlal	Grade 9	Town Suffield

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Suffield	Suffield High School	Mrs. Brown	6060	PS	3	How Can Solar Power be Streamlined so it is More Cost Effective and Utilized Efficiently?		
Student(s) Haley Young					Grade 10	Town West Suffield		

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

Trumbull	Christian Heritage School	203-217-7498	6098	PS	2	Building and Testing a Radon Daughter Collector and Detector		
Student(s) Mia Angelini					Grade 11	Town Trumbull		

* ISA - International Society for Automation - Ct. Valley Section --- 3rd - \$50 award

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

Trumbull	Christian Heritage School	Daniel Cote	6014	PS	3	Piezoelectric Generator Insoles		
Student(s) Marckwin Bristhole					Grade 11	Town Bridgeport		

Trumbull	Christian Heritage School	Daniel Cote	5541	P8	3	The Crane: One of the Most Useful Compound Machines		
Student(s) Noah Bruce					Grade 8	Town Trumbull		

Trumbull	Christian Heritage School	Mr. Cote	6065	PS	2	Getting the Most Out of Solar Panels		
Student(s) Anda Liang					Grade 11	Town Trumbull		

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

Trumbull	Christian Heritage School	Mr. Cote	6042	PS	2	The Effect of Magnets on the Performance of Bike Suspensions		
Student(s) William Parrish					Grade 11	Town Milford		

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

* Samantha Freeman Award for Excellence in Sports Science or Engineering --- For Excellence in Sports Science or Engineering by a High School student, \$125 cash

Trumbull	Christian Heritage School	Daniel Cote	2529	L8	1	Use of Bioluminescent Dinoflagellates to Detect Water Contaminants		
Student(s) Samuel Tsao					Grade 8	Town OLD GREENWICH		

* The Jackson Laboratory Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion

* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion

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

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

* TurnKey Compliance Solutions Environmental Awards --- \$200 Cash Award Middle School- For excellence in environmental sciences

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Trumbull	Hillcrest Middle School	Jennifer Bauer-Tibor	5519	P8	2	Integrating Intelligence Systems into Humanoid Robot Using Raspberry Pi		
		Student(s) Nicholas Lee					Grade 8	Town Trumbull
		* Applied Technology Awards --- Middle School Finalist - Medallion * Computer Science Awards --- 2nd Place Middle School - \$200, Trophy and Medallion						
Trumbull	Trumbull High School	Steffanie Elkins	6056	PS	3	Glider		
		Student(s) Charitarth Chugh					Grade 10	Town Trumbull
Trumbull	Trumbull High School	Steffanie Elkins	3062	LS	3	The Effect of Type of Stress on Academic Performance.		
		Student(s) Howard Qian					Grade 11	Town Trumbull
Wallingford	Choate Rosemary Hall	Betty Wang	6073	PS	1	Enhanced Photocatalytic Activity of Carbon Dots Grafted TiO ₂ Nanorods		
		Student(s) Shimin Cai					Grade 11	Town wellesley
		* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion * Future Sustainability Awards --- High School Finalist - Medallion						
Wallingford	Choate Rosemary Hall	Ben Small	3090	LS	2	Investigating Action Potentials of <i>L. terrestris</i> for Pharmacological Effects		
		Student(s) Hyunseo Kim					Grade 11	Town Wallingford
		* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion						
Wallingford	Choate Rosemary Hall	Professor Yannis K. Semertzidis	6025	PS	2	Beam Dynamics as a Function of Scraping Parameter Studies For the Muon g-2 Experiment at Fermilab/Chicago		
		Student(s) Anjali Mangla					Grade 11	Town Cheshire
		* University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificat						
Wallingford	Choate Rosemary Hall	Ben Small	3046	LS	2	Sleep Deficiency among High School Students		
		Student(s) Yuting Wang					Grade 11	Town Houshayu, Shunyi District
Wallingford	Choate Rosemary Hall	Chris Hogue	3084	LS	2	Utilizing a GFP to BFP Reporter Construct to Quantify Gene Targeting Efficiency		
		Student(s) Jonathan Wu					Grade 12	Town Wilton

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

Waterbury Our Lady of Mount Carmel School Tricia Ann Vertuccio
 2514 L8 3 Catch my drift?
Student(s) Gabriel deLevie **Grade 8** **Town** Naugatuck

Waterbury Our Lady of Mount Carmel School Tricia Ann Vertuccio
 4015 PT 3 Which Wheels Work?
Student(s) Taylor Kunkel **Grade 7** **Town** Waterbury
 Aoife Lee **Grade 7** **Town** Waterbury

Waterbury Our Lady of Mount Carmel School Tricia Ann Vertuccio
 5015 P7 3 Fire and Sharp Things
Student(s) Luke Reilly **Grade 7** **Town** Naugatuck

Waterbury Our Lady of Mount Carmel School Tricia Ann Vertuccio
 5525 P8 3 Aerodynamic Under Construction
Student(s) Nicolas Rosales **Grade 8** **Town** Waterbury

Watertown The Taft School Jim Mooney
 6529 PST 3 On the Polygon Determined by the Short Diagonals of a Convex Polygon.
Student(s) Yi Won Kim **Grade 11** **Town** Watertown
 Andrew Lee **Grade 10** **Town** Wallingford

* People's United Bank Mathematics Awards - with ATOMIC --- 2nd Place High School- \$100 from ATOMIC, Plaque, \$300 from People's United Bank

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

* Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion
 * Alexion Biotechnology Awards --- 4th Place- Biotechnology 7th grade- trophy and Invitation Compete in Broadcom MASTERS
 * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2019 Invention Convention, May 4

West Hartford St. Brigid-St. Augustine Partnership School Mr. Donald Fay
 2014 L7 1 Plants on the Move
Student(s) Kaylana Caguila **Grade 7** **Town** West Hartford

* The Jackson Laboratory Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion

West Hartford St. Timothy Middle School Mr. Kevin Gemmell
 5542 P8 3 Surf's Up
Student(s) Thomas Baldini **Grade 8** **Town** West Hartford

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

West Hartford St. Timothy Middle School Mr. Gemmell

5550 P8 3 Breaking the Ice

Student(s) Connor Dainiak **Grade 8** **Town** West Hartford

West Hartford St. Timothy Middle School Kevin Gemmell

5034 P7 3 Candy Chromatography

Student(s) Ava Rotundo **Grade 7** **Town** West Hartford

Weston Weston Middle School Jamie Charles

2510 L8 3 How do height and weight affect swimming race times?

Student(s) Madeleine Revzon **Grade 8** **Town** Weston

Westport Bedford Middle School NA

2511 L8 1 Analysis of SNPs' association with early onset of Alzheimer's disease

Student(s) Aalok Bhattacharya **Grade 8** **Town** Westport

- * The Jackson Laboratory Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

Westport Staples High School Karen Thompson

6510 PST 1 Optimization of High-Efficiency Organic-Inorganic Lead Halide Perovskite Solar Cells via a Novel Polycaprolactone Additive Pathway

Student(s) Sirina Prasad **Grade 12** **Town** Westport
 Anisa Prasad **Grade 12** **Town** Westport

- * Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences Senior High Team- \$500 (split) & Plaque
- * Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Plaque
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * U.S. Metric Association --- Certificate & \$25 Amazon gift card given by CSEF
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, middle school, \$100 cash award

Wilton Middlebrook Middle School Mrs. Mallozzi

5510 P8 1 Fighting Wildfires with Data from Satellite Remote Sensors.

Student(s) Gayathri Kaimal **Grade 8** **Town** Wilton

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- * American Meteorological Society --- Certificate & \$25 gift card given by CSEF
- * Connecticut Science Supervisors Association --- \$125 for a middle school project

Wilton Middlebrook Middle School Debbie Mallozzi

5514 P8 2 Medibox

Student(s) Varun Vadhera **Grade 8** **Town** Wilton

- * Applied Technology Awards --- 3rd Place Middle School - \$100 and Trophy, Medallion
- * Computer Science Awards --- Middle School Finalist - Medallion

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Wilton	Middlebrook Middle School	Mrs. Garcia	5502	P8	1	Alternative Household Method to Extinguish Fires		
					Student(s)	Keerthi Vijay	Grade 8	Town Wilton
<ul style="list-style-type: none"> * 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 * Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$500 & trophy and Invitation Compete in Broadcom MASTERS * American Society of Safety Professionals, CT Valley Chapter --- \$100 grade 7-8 project * Jon Stone Memorial Award --- \$100 cash for Innovative Engineering 								
Wilton	Wilton High School	Patricia Rinaldi	6031	PS	3	Network Throttling Detector		
					Student(s)	Rohan Vaddiraju	Grade 10	Town Wilton
Windsor	Academy of Aerospace and Engineering	Lili Aramli	3050	LS	3	Addiction and Regeneration in Planaria		
					Student(s)	Nithila Annadurai	Grade 11	Town Newington
Windsor	Academy of Aerospace and Engineering	Dr. Lili Aramli	6009	PS	3	How can commercially available consumer-level modern wearable technology devices be adapted and applied to the biomedical field?		
					Student(s)	Rishan Annadurai	Grade 11	Town Newington
* Wisner Award --- \$350 cash								
Windsor	Academy of Aerospace and Engineering	Lili Aramli	3005	LS	3	Stress and Heart Disease		
					Student(s)	Richa Balamurugan	Grade 11	Town Newington
Windsor	Academy of Aerospace and Engineering	Dr. Bellinger	6506	PST	2	Effect of varying shape memory alloys on the folding mechanism of a pollination device and the efficiency of the collection and dispersion using electrostatic forces.		
					Student(s)	Gianna Guzzo	Grade 11	Town Suffield
						Andrea Lacunza	Grade 11	Town Avon
<ul style="list-style-type: none"> * Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- High School- \$150 / plaque * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion * 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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Windsor	Academy of Aerospace and Engineering	Michelle Bellinger	6530	PST	1	Optimizing Archimedian screw geometry to increase the energy conversion efficiency of a micro hydropower plant.		
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Student(s)	Devesh Kakkar	Grade 11	Town	South Windsor
	Johnathan Bell	Grade 11	Town	Glastonbury

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Team- \$300(split) & Plaque
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 4th Place High School - Plaque, Medallion
- * Collins Aerospace Engineering Awards --- 3rd Place- Engineering Senior High- \$200 & plaque
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * Connecticut Association of Physics Teachers --- \$100 Senior project
- * Environmental / Energy Award- New Haven Public School Award --- \$100 Award for top environmental or alternative energy project from a New Haven public school
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Engineering: Mechanical

Windsor	Academy of Aerospace and Engineering	Dr. Lili Aramli	3103	LS	3	Effect of External Exposure of Low-Intensity Light on Breast Cancer Cell Proliferation With Plexiglass-Bead Radiation Absorption and Emission		
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Student(s)	Emily Ngo	Grade 11	Town	South Windsor
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Windsor	Academy of Aerospace and Engineering	Dr. Bellinger	6092	PS	1	The Effect of Piezoelectric Cantilever Beam Design and Spatial Positioning in a Network on the Efficiency and Maximum Energy Output of a Vibro Wind Unit.		
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Student(s)	Jean Pasato	Grade 12	Town	Middletown
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- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Applied Technology Awards --- Senior High Finalist - Medallion
- * Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- * Constellation, an Exelon Company --- 1st: \$150.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy
- * Robotics And Beyond --- HS- For Excellence in Physics- \$200 for Robotics And Beyond STEM Design Camp or Academy

Windsor	Academy of Aerospace and Engineering	Dr. Bellinger	6511	PST	1	The Effect of Hydrofoil Design Parameters on Dynamic Behavior and Energy Extraction Efficiency of an Oscillating Hydrofoil Power Generation Unit		
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Student(s)	Christopher Rinaldi	Grade 12	Town	Enfield
	Abhiram Tirumala	Grade 12	Town	South Windsor

- * Lockheed Martin Physical Sciences Awards --- 3rd Place - Physical Sciences Senior High Team - Plaque
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Mu Alpha Theta --- Certificate, \$25 gift card given by CSEF

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

Windsor Academy of Aerospace and Engineering Michelle Bellinger

6521	PST	1	Development of In-situ Fabrication Methods of Martian Construction Material
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Student(s)	Cristian Rodriguez	Grade 12	Town East Hartford
	Srikar Godilla	Grade 12	Town Newington

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion
- * CASE • PepsiCo 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 in partnership with CCAT --- \$500 to 1st HS Urban School Challenge Science Department for Equipment/Supplies
- * Arthur Mensing Award --- \$1000 cash award for Excellence in the Physical Sciences

Windsor Academy of Aerospace and Engineering Dr. Bellinger

6058	PS	1	The Effect of Design Parameters and Operating Conditions on Optimal Energy Conversion and Force Generation in a Magnetohydrodynamic Drive
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Student(s)	Vishakh Talanki	Grade 12	Town South Windsor
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- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion
- * Applied Technology Awards --- Senior High Finalist - Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR

Windsor Academy of Aerospace and Engineering - MS Dr. Bellinger

4012	PT	1	What is the Effect of the Frequency of "Oobleck" on its Flow?
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Student(s)	Cody Chivinski	Grade 8	Town Torrington
	Ronak Ramesh	Grade 7	Town Middletown

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion

Windsor Academy of Aerospace and Engineering - MS Dr. Bellinger

4028	PT	1	Do Contaminants Effect the Strength of Concrete at Construction Sites?
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Student(s)	Justin Ho	Grade 8	Town Suffield
	Nicholas Sattan	Grade 8	Town Suffield

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology 8th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS
- * ASM Materials Education Foundation --- Certificate & \$25 gift card given by CSEF
- * Garg Consulting Services Award for Excellence in Construction Engineering --- \$250 cash and plaque

Windsor Madina Academy Mrs. Rania

4004	PT	2	Using copper instead of stainless steel to build an hho generator to prevent the production of toxic chromium ions.
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Student(s)	abdulmalik ajdinowski	Grade 8	Town windsor locks
	Ahmad Zoghol	Grade 8	Town Enfield

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

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

Windsor Madina Academy Tim Coleman
 5512 P8 3 Dry Ice Effects
Student(s) Saad Farooq **Grade 8** **Town** Windsor

Windsor Madina Academy Mr. Coleman
 4008 PT 1 An innovative way to remove oil from water.
Student(s) Amer Kabatilo **Grade 8** **Town** Windsor
 Zain Kabatilo **Grade 8** **Town** Windsor

* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion

Windsor Madina Academy Mr. Coleman
 1014 LT 2 Is There Bacteria in My Food?
Student(s) Marriam Khan **Grade 8** **Town** Windsor
 Aichatou Tidjani **Grade 8** **Town** Springfield
 Haneen Abuteen **Grade 8** **Town** Windsor

Windsor Madina Academy mr coleman
 6505 PST 2 Harnessing Energy from Temperature Differences Created by Hot Water
Student(s) Ahmad Mohammed **Grade 10** **Town** Windsor
 Muaz Sharaf **Grade 10** **Town** Windsor Locks
 Ahmed Zeinalabdin **Grade 10** **Town** Windsor

Windsor Madina Academy Tim Coleman
 6516 PST 2 Designing a multi-climatic tent system to help manage the comfortable sheltering of people during international crises and natural disasters.
Student(s) Al-Yaman Zoghol **Grade 10** **Town** Enfield
 Enis Shelbaya **Grade 10** **Town** South Windsor

Windsor St. Gabriel School Margaret Rosa
 5036 P7 2 Don't Keep Me in Suspense
Student(s) Ben Owen **Grade 7** **Town** Windsor

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

Windsor St. Gabriel School Miss Meg Rosa
 5537 P8 2 Freezing Substances
Student(s) Michael Sponzo **Grade 8** **Town** Windsor

Windsor St. Gabriel School Miss Rosa
 5533 P8 3 Temperature vs. Time
Student(s) Katherine Wilkos **Grade 8** **Town** Windsor

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

Windsor The Loomis Chaffee School Koby Osei-Mensah
 6052 PS 2 A Novel Activation Function for a Convolutional Neural Network Implemented Without Machine Learning Libraries

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

- * People's United Bank Mathematics Awards - with ATOMIC --- 1st Place High School- \$150 from ATOMIC, Plaque, \$500 from People's United Bank
- * Computer Science Awards --- 1st Place High School - \$400, Plaque, Medallion
- * Intel Excellence in Computer Science Award --- \$200 & certificate
- * Mu Alpha Theta --- Certificate, \$25 gift card given by CSEF
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Computer Science
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Mathematics
- * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

Windsor The Loomis Chaffee School Mr. Oseih
 3014 LS 3 Study of injectable hydrogel microspheres loaded with bone marrow mesenchymal stem cells for the treatment of degenerative intervertebral disc

Student(s) haokai Shen **Grade** 11 **Town** Windsor

Woodbridge Amity Regional High School Mrs. Piscitelli
 3048 LS 2 The Effect of Ocean Water's pH on Asian Shore Crab (Hemigrapsus sanguineus) Growth

Student(s) Talia Barry **Grade** 12 **Town** Orange

Woodbridge Amity Regional High School Catherine Piscitelli
 3019 LS 3 Structural Changes in the Prefrontal Cortex in an Activity-based Animal Model of Anorexia

Student(s) Rhea Dey **Grade** 11 **Town** WOODBRIDGE

Woodbridge Amity Regional High School Catherine Piscitelli
 6070 PS 3 Quantification of Cancer Cell Response to Squeezing Effect in 3D

Student(s) Rosie Du **Grade** 12 **Town** New Haven

Woodbridge Amity Regional High School Catherine Piscitelli
 6019 PS 3 Split Streams as a Novel Determinant of Extreme Severe Thunderstorm Potential in the Northeastern US

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

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

Woodbridge Amity Regional High School Catherine Piscitelli
 3508 LST 2 Investigating various characteristics of Rhododendron Plants Across Multiple Ploidies

Student(s) Austin Gilbride **Grade** 12 **Town** Woodbridge
 Joseph Benedetti **Grade** 12 **Town** Bethany

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

Woodbridge Amity Regional High School Catherine Piscitelli
 3009 LS 2 The Effect of Recurrent Hypoglycemia on Metabolic Enzyme Expression Levels
Student(s) Jody Liu **Grade 11** **Town Orange**

Woodbridge Amity Regional High School Catherine Piscitelli
 6081 PS 2 Comparing Functional Connectivity Scan Reliability Between the Prisma and TimTrio Scanners
Student(s) Tracy Lu **Grade 11** **Town Woodbridge**

Woodbridge Amity Regional High School Catherine Piscitelli
 6029 PS 2 Analyzing Particulate Matter Atmospheric Pollution Trends in Connecticut
Student(s) Ella Marin **Grade 11** **Town Woodbridge**

* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
 * American Meteorological Society --- Certificate & \$25 gift card given by CSEF

Woodbridge Amity Regional High School Catherine Piscitelli
 3033 LS 3 The Effect of Light Color on the Mass of Leafy Green Algae (Ulva lactuca) Eaten by the Perwinkle Snail (Littorina littorea)
Student(s) Nicole Mongillo **Grade 11** **Town Orange**

Woodbridge Amity Regional High School Catherine Piscitelli
 6040 PS 2 Degree Centrality and Betweenness Centrality: Predicting Viral Videos Based on Social Connectedness
Student(s) Kayla Morgan **Grade 11** **Town Woodbridge**

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

Woodbridge Amity Regional High School Catherine Piscitelli
 3100 LS 3 The Impact of Seasonal Temperature Variation on Phytoplankton Biomass
Student(s) Arnav Paliwal **Grade 10** **Town Woodbridge**

Woodbridge Amity Regional High School Deborah Day
 3029 LS 2 The Effect of Increased Tidal Inundation on the Behavior of Salt Marsh Birds
Student(s) Natalie Prinz **Grade 11** **Town Bethany**

Woodbridge Amity Regional High School Catherine Piscitelli
 3051 LS 2 Comparing Methods of Measurement of Cell Signals in Macrophages
Student(s) Neha Sudhir **Grade 12** **Town Woodbridge**

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

Woodbridge Amity Regional High School Catherine Piscitelli

6064	PS	1	Designing and Testing an Aid for the Visually Impaired
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Student(s) Shyam Viswanathan **Grade** 10 **Town** Woodbridge

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Applied Technology Awards --- Senior High Finalist - Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Zepke Awards --- \$125 - For the Best Use of Electronic Circuitry- Senior High
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Engineering: Electrical

Woodbridge Amity Regional High School Catherine Piscitelli

6012	PS	2	Developing Age Detection Software Based on Touch Behavior
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Student(s) Kate Yuan **Grade** 12 **Town** Woodbridge

- * Applied Technology Awards --- 2nd Place High School - \$300 and Plaque Medallion
- * Robert Francoeur Memorial Award --- Creative or innovative project in electrical engineering or computer science by female students - \$200