



Connecticut Science & Engineering Fair

Quinnipiac University

March 9 - 14, 2020

Special Award Winners

These judging results are unaudited by the fair's Database Committee. The CSEF reserves the right to correct the listings.

Awards Legend

Honors = 1st, 2nd, 3rd place ribbons (1st honors are CSEF Finalists)

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Avon	Talcott Mountain Academy	Mr John Pellino	5007	P7	1	Dampening, Quantifying, and Recording Tremor		
					Student(s)	Ariana Pourkavoos	Grade 7	Town Avon
<p>* Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash</p> <p>* Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School, Physical Sciences</p> <p>* John S. Kendall Memorial Awards --- \$300 John S. Kendall Award for Excellence In Mechanical Engineering - Middle School</p>								
Bethany	Amity Middle School - Bethany	Kevin Berean	4018	PT	2	Auto Guitar Tuner		
					Student(s)	Aiden Ahmed	Grade 8	Town Woodbridge
						Benjamin Aviad	Grade 8	Town Woodbridge
<p>* Zepke Awards --- \$100 - For the Best Use of Electronic Circuitry- Middle School</p>								
Bethany	Amity Middle School - Bethany	Kevin Berean	1007	LT	2	There's a Plastic-Eating Fungus Among-Us		
					Student(s)	Angela He	Grade 8	Town Woodbridge
						Alice Xu	Grade 8	Town Bethany
<p>* Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF</p>								
Bethany	Amity Middle School - Bethany	Kevin Berean	5501	P8	2	Constructing a Homemade Radon Detector		
					Student(s)	Gregory Hofstatter	Grade 8	Town Woodbridge
<p>* National Center for Inquiry Learning --- Daniel & Maggie Award for Imagination - MS \$100</p>								
Bethany	Amity Middle School - Bethany	Kevin Berean	5551	P8	3	Miniature Horse Prosthetic		
					Student(s)	Moorea Santulli	Grade 8	Town Woodbridge
<p>* NYUC Pony Club Equine Award --- \$100 Cash Award or excellence in equine studies</p>								
Bethany	Amity Middle School - Bethany	Kevin Berean	5557	P8	2	Heatstroke Monitor		
					Student(s)	Mark Sheehe	Grade 8	Town Bethany
<p>* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF</p>								

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Special Award Winners

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

Bethany Amity Middle School - Bethany Kevin Berean

5510 P8 1 A More Efficient Microbial Fuel Cell

Student(s) Iris Yan **Grade 8** **Town** Woodbridge

- * U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF
- * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, middle school, \$75 cash award
- * Frank J. Link Family Award for Energy Related Research --- Frank J. Link Award for Energy Related Research - \$50

Bethel Bethel Middle School Shellie Zancan

5025 P7 3 Biodegradable Trash Bag Test

Student(s) Emily Turek **Grade 7** **Town** Bethel

- * Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related

Bethel St. Mary School Joanna Reech

5030 P7 3 How do you create clean power....the answer is blowing in the wind

Student(s) Amalia Tuccinardi **Grade 7** **Town** Bethel

- * Constellation, an Exelon Company --- 2nd: \$50.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy

Bozrah Fields Memorial School Mrs. E. Brown

5513 P8 1 Producing Renewable Energy With Rainwater Gutter Systems Using Micro Hydro-Turbines

Student(s) Elle Okoney **Grade 8** **Town** BOZRAH

- * CT Architecture Foundation - The William M. Mack, AIA Award --- \$250 Gift Certificate to Barnes and Noble from the Connecticut Architecture Foundation, William M. Mack, AIA Award.
- * IEEE, Connecticut Section --- \$250 Honors Award -Junior
- * J.A. Augustine Award --- \$100 for excellence in physical sciences
- * Kathleen & David Smith Awards --- Kathleen & David Smith Award for Innovative Concept - \$100
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

Bozrah Fields Memorial School Mrs. E. Brown

5521 P8 2 The Power of a Wind Turbine

Student(s) Felicia Silva **Grade 8** **Town** Bozrah

- * U.S. Metric Association --- Certificate & \$25 gift card given by CSEF
- * Robert Francoeur Memorial Award --- Creative or innovative project in engineering or computer science by female students - \$200

Branford CT Experiential Learning Center Middle School Melinda Alcosser

5005 P7 2 Let Them Eat Cake!

Student(s) Harper Reed **Grade 7** **Town** Guilford

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

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Branford	CT Experiential Learning Center Middle School	Melinda Alcosser	5537	P8	1	From Waste to Paper		
Student(s) Ethan Reynolds					Grade 8	Town Durham		
* Demos R Us Award --- \$200 Cash Award- Clear Execution of Research- 8th Grade								
Branford	CT Experiential Learning Center Middle School	Melinda Alcosser	4027	PT	3	Repurposing Plastic Into A Tiny House		
Student(s) Avyay Yarlagadda					Grade 8	Town Guilford		
Student(s) Natalia Brown					Grade 8	Town North Haven		
* Society of Women Engineers - Hartford Section --- Scientific Calculator								
Bridgeport	Bridgeport Regional Aquaculture Center	Kirk Shadle	3051	LS	2	The Use of Trehalose as an Additive to the Antimicrobial Tetracycline in order to Increase Thermal Stability and Longevity		
Student(s) Matthew Brander					Grade 12	Town Stratford		
* U.S. Metric Association --- Certificate & \$25 gift card given by CSEF								
Bridgeport	Bridgeport Regional Aquaculture Center	Kirk Shadle	3030	LS	2	Allelopathic Effects of Invasive Red Macroalga (Grateloupia turuturu) for the Mitigation of Harmful Algal Blooms		
Student(s) Lyle Given					Grade 12	Town Fairfield		
* Environmental / Energy Award- Urban Public School Award --- Environmental / Energy Award- Urban Public School Award - \$300								
Bridgeport	Bridgeport Regional Aquaculture Center	Kirk Shadle	3001	LS	2	Development of Vibrio sp. Detection in Crassostrea virginica for the Consumer Market		
Student(s) Charlotte Hickey					Grade 12	Town Fairfield		
* Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt & cap, First Place Senior								
Bridgeport	Bridgeport Regional Aquaculture Center	Kirk Shadle	3045	LS	2	Determining the Efficacy of Dexamethasone Infused Polypropylene Mesh to Prevent Post Surgical Abdominal Adhesion		
Student(s) Jordan Macdonald					Grade 12	Town Milford		
* Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Life Sciences								
Bridgeport	Multicultural Magnet School	Mrs. Corina Starn	2006	L7	1	HUMIDITY IMPACT		
Student(s) Sofia Atehortua					Grade 7	Town Bridgeport		
* American Meteorological Society --- Certificate & \$25 gift card given by CSEF								

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Special Award Winners

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

Bridgeport Park City Prep Charter School Vicky Boudreau

1013 LT 3 How To Make Saltwater Drinkable

Student(s) Rania Aboutayeb **Grade 7** **Town** Fairfield
 Karla Dominguez **Grade 7** **Town** Bridgeport
 Abril Galicia **Grade 7** **Town** Bridgeport

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

Brookfield Saint Joseph Catholic Academy Mrs. Dimon

2513 L8 2 THE EFFECT OF FIRE DURATION ON REFORESTATION RATE

Student(s) Abigail Cristaudo **Grade 8** **Town** Brookfield

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

Canton Canton Middle School Ashley LaPane

2501 L8 1 Concentration of Microplastics in Four Farmington River Locations

Student(s) Lauren Marze **Grade 8** **Town** Canton

* Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Phys Science
 * Southeastern New England Marine Educators (SEMEME) --- \$100 award and membership in SEMEME - 1st Place Junior & T-Shirt

Cheshire Cheshire Academy Mariam Aboian

3035 LS 2 Quantitative molecular imaging of brain tumors using Positron Emission Tomography (PET)

Student(s) Julia Shatalov **Grade 11** **Town** Cheshire

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

Cheshire Cheshire High School Julie Barker

6038 PS 2 Object Detection Universal System [O.D.U.S]

Student(s) Siddhant Bhardwaj **Grade 9** **Town** Cheshire

* American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 9-12 project
 * IEEE, Connecticut Section --- \$100 Honorable Mention

Colchester William J. Johnston Middle School Mrs. Ngai

4003 PT 2 Low-pressure conversion of carbon dioxide to methanol.

Student(s) Frank Dobek **Grade 7** **Town** Colchester
 John Marks **Grade 7** **Town** Colchester

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

Danbury Henry Abbott Technical High School A.S. Ipkovich

6052 PS 3 Efficient Electricity Production through Temperature Differential

Student(s) Yousef Masood **Grade 11** **Town** Danbury

* University of Hartford Scholarships --- University of Hartford Scholarship- For Excellence in Engineering, or Technology, \$27,000
 * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place Technical High School

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[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Danbury	Immaculate High School	Daniel Baluha	6013	PS	1	Effective Removal of Systemic Pesticides from Fresh Fruits		
		Student(s) Elias Haddad					Grade 11	Town Danbury
		* University of Hartford Scholarships --- University of Hartford Scholarship- For Excellence in Engineering, or Technology, \$27,000						
Danbury	Saint Joseph School	Jennifer Reilly	1003	LT	2	Hand Sanitizers and Wipes Against Bacteria		
		Student(s) Melanie Riggs					Grade 8	Town Danbury
		Catherine Baptiste					Grade 8	Town danbury
		* American Society of Safety Professionals, CT Valley Chapter --- \$100 grade 7-8 project						
Danbury	St. Gregory the Great School	Mrs. Fahey	5031	P7	2	Exploring the Forces of Friction		
		Student(s) Brendan J Kelly					Grade 7	Town Danbury
		* Vanderbilt Chemicals, LLC --- Vanderbilt Chemicals Award for Excellence in Tribology and Sustainable Lubrication						
Danbury	Westside Middle School Academy	Jonathan Neuhausel	2527	L8	1	Kombucha SCOBY Infused Hydrogels as a Natural Bandaid Stopping the Growth of Escherichia coli		
		Student(s) Ella Brown					Grade 8	Town Danbury
		* Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School Life Sciences						
Danbury	Westside Middle School Academy	Jonathan Neuhausel	5538	P8	2	Designing an Automatic Watering Device using an Arduino		
		Student(s) Shriya Jonnalagadda					Grade 8	Town Danbury
		* Robert Francoeur Memorial Award --- Creative or innovative project in engineering or computer science by female students - \$200						
Danbury	Westside Middle School Academy	Jonathan Neuhausel	5549	P8	2	Making an Affordable Ozone Sensor and Proofing its Accuracy		
		Student(s) Richard Parker					Grade 8	Town danbury
		* IEEE, Connecticut Section --- \$100 Honorable Mention * Urban School Challenge 1st Place Middle School Awards --- Highest Placing 8th grader- GENIUS-Olympiad Competition -\$800 travel stipend (See Sponsor 421) * GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project * Dreams Unlimited Award --- \$100 Cash Award + Certificate to each student						
Enfield	Chiaravale Academy	Timothy Coleman	1005	LT	1	Using Charcoal as a Fertilizer Supplement		
		Student(s) Joella Asapokhai					Grade 7	Town South Windsor
		Alexandria Croal					Grade 7	Town Enfield
		Jordan Roy					Grade 7	Town Enfield
		* Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF						

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Enfield	Chiaravale Academy	Mr. Tim Coleman	4025	PT	2	Fuel Efficiency of a Paper Brick Versus a Bio-Brick		
Student(s)					Abigail Quinby	Grade 7	Town Windsor	
					Lincoln Marshaus	Grade 7	Town Suffield	
					Alexander Gumkowski	Grade 7	Town North Haven	

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

Fairfield	Fairfield College Preparatory School	Deborah Kiel	3067	LS	3	Energy Production From Backyard Septic Systems.		
Student(s)					Antonios Boudreau	Grade 11	Town Ansonia	

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

Forestville	St. Matthew School	Mrs. Persichetti	5529	P8	2	How Old is the Universe?		
Student(s)					Grace Beyer	Grade 8	Town Bristol	

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

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

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

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

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

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

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

Greenwich	Brunswick School	Dana Montanez	6003	PS	2	Utilizing Alpha-Particle Decay as a Catalyst for Ionization and a Source of Clean Energy		
Student(s)					Luke Apostolides	Grade 10	Town Greenwich	

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

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Greenwich	Brunswick School	Dana Montanez	6520	PST	2	Condensation and Collection of Cooling Tower Steam:		
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Student(s)	Ashton Arjomand	Grade 10	Town Greenwich
	Max Konzerowsky	Grade 10	Town Darien

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

Greenwich	Brunswick School	Dana Montanez	6503	PST	2	Creation of an Efficient Fluid Coolant System through the use of Ferrofluid		
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Student(s)	John Brown	Grade 10	Town Greenwich
	Caleb Boateng	Grade 10	Town New York

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

Greenwich	Brunswick School	Dana Montanez	6008	PS	2	Delivery of Medical Supplies using Autonomous Thrust Vectoring UAVs to 3rd World Countries Post Natural Disasters		
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Student(s)	Thomas Fouts	Grade 11	Town Rye
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* U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF
 * American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate

Greenwich	Brunswick School	Dana Montanez	3076	LS	1	Predicting Droughts from Satellite Images using Novel Convolutional Neural Network Techniques		
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Student(s)	Ali Hindy	Grade 11	Town Greenwich
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* American Meteorological Society --- Certificate & \$25 gift card given by CSEF

Greenwich	Brunswick School	Dana Montanez	6019	PS	2	Texting-and-Driving Safety Device: Utilizing a Hydraulic Braking System Activated by a Touch-Sensor Steering Wheel to Increase Driver Engagement.		
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Student(s)	Noah Levi	Grade 11	Town Wilton
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* American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 9-12 project
 * Zepke Awards --- \$125 - For the Best Use of Electronic Circuitry- Senior High
 * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2
 * University of Connecticut Academic Excellence Scholarship --- Academic Excellence Physical Sci. scholarship - \$7,500 /year, four academic years- (\$30,000 total)

Greenwich	Brunswick School	Dana Montanez	6529	PST	2	Optimization of the Insoles: Material Testing to Maximize Athletic Results		
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Student(s)	Myles Spiess	Grade 10	Town Old Greenwich
	Nicholas Altman	Grade 10	Town Mount Kisco

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

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Special Award Winners

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

Greenwich Greenwich Academy Dr. Monica Ortiz
 3016 LS 2 Using Artificial Intelligence to Uncover the Connection between RNA Gene Expression and Cancer
Student(s) Natalie Shell **Grade 10** **Town** Greenwich

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

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

* Otero Family Award --- The Otero Family Award; \$200 cash
 * University of Connecticut Academic Excellence Scholarship --- Academic Excellence Life Sciences scholarship - \$7,500/year, four academic years- (\$30,000 total)

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

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

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

* Lunch with a Patent Attorney --- Lunch with a Patent Attorney

Greenwich Greenwich High School Andrew Bramante
 3103 LS 1 Improved Design and Field Verification of Varroa destructor Control with a Dual-function, Thymol-
Student(s) Raina Jain **Grade 12** **Town** Riverside

* MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Innovative Concept Award - \$100
 * Jon Chapis Memorial Award --- John Chapis Spirit of Innovation Award - HS \$200
 * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Environmental Project

Greenwich Greenwich High School Andrew Bramante
 6059 PS 1 Scale-up of Water-Splitting Hydrogen Production Using Piezo-Electrochemical Nanostructures and Ambient Processes
Student(s) Zachary Mester **Grade 12** **Town** Cos Cob

* MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Applied Principles Award - \$100

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

Greenwich Greenwich High School Andrew Bramante
 6072 PS 1 Creation of a CO₂-free Energy via a Solar-Powered Cu₂O Nanowire Microbial - Algae Photosynthetic Bioreactor

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

- * Constellation, an Exelon Company --- 1st: \$150.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy
- * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, high school, \$75 cash award

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

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

- * Biophysical Society --- Biophysics Award- \$100

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

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

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

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

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

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

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

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

- * Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF
- * University of Hartford Scholarships --- University of Hartford Scholarship- For Excellence in Science or Mathematics \$27,000
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Future Sustainability

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

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

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

Greenwich Sacred Heart Greenwich Mary Musolino
 6034 PS 3 The Effect of MGS-1 Mars Global Simulant Soil on the Growth Rates of Plants

Student(s) Piper Gilbert **Grade** 11 **Town** Greenwich

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

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

* Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition

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

* Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition

Greenwich Sacred Heart Greenwich Mary Musolino
 6515 PST 2 Creating and Testing Novel Plant-Based Bioplastics for Strength and Biodegradability
Student(s) Piper Van Wagenen **Grade** 12 **Town** Darien
 Taylor O'Meara **Grade** 12 **Town** Purchase
 Arielle Uygur **Grade** 12 **Town** Greenwich

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

Guilford Guilford High School Fangyong Li
 6015 PS 3 The Academic Gender Gap in High School: Are Boys Being Left Behind?
Student(s) Jerry Li **Grade** 10 **Town** Guilford

* Mu Alpha Theta --- Certificate, \$25 gift card given by CSEF

Hamden Sacred Heart Academy Katherine Tubis
 3110 LS 2 Trickling Triclosan
Student(s) Maeve McConnell **Grade** 9 **Town** Branford

* Sister Mary Christine Life Sciences Award --- \$150 for excellence in the life sciences by a catholic high school project

Hartford Environmental Sciences Magnet School Mrs Hays
 2012 L7 1 Now You Sea It
Student(s) Isabella D'Agostino **Grade** 7 **Town** New Britain

* American Meteorological Society --- Certificate & \$25 gift card given by CSEF
 * Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF
 * Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt & cap, First Place Junior
 * Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash

Hartford Environmental Sciences Magnet School ms. hays
 2019 L7 2 Ocean Acidification VS. Mussel Filtration
Student(s) Jaydalize London **Grade** 7 **Town** Wethersfield

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

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Hartford	Watkinson School	Jean Kracke	3074	LS	2	Effect of Reproductive Maturity on Wing Loading in Spotted Lanternfly		
					Student(s) Tyler Andrews	Grade 9	Town Torrington	
* Banning Family Life Science Award --- For excellence in invasive species research, \$100 cash								
Kent	Kent School	Sunny Kim	6055	PS	3	Microplastic: A Way to Collect and Reuse Microplastic		
					Student(s) Da Hyun (Dianne) Choo	Grade 12	Town Kent	
* Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related								
Kent	Kent School	Ben Nadire	6033	PS	3	Accounting for discrepancies in galaxy rotational curves using dark matter halo density profiles		
					Student(s) Dagny Peters	Grade 11	Town Atlanta	
* University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Frontiers in Science - Co-Op \$100 Gift Certificate								
Manchester	East Catholic High School	Lesa Milas	6093	PS	2	Biomimicry of Woodpecker Anatomy to Improve Helmet Design in Prevention of Chronic Traumatic Encephalopathy		
					Student(s) John Oei	Grade 11	Town Hebron	
* Yale Science & Engineering Association, Inc. --- 1 Certificate, Medallion and 1- \$25 gift card given by CSEF								
* University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$80,000 (\$20,000 per year)								
* Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100								
Meriden	Thomas Edison Middle School	Caitlin Lombardi	4039	PT	3	Construction Catastrophe!		
					Student(s) Michael Kline	Grade 7	Town Middletown	
					Jacob Jones	Grade 7	Town Middletown	
* American Society of Safety Professionals, CT Valley Chapter --- \$100 grade 7-8 project								
Middletown	Xavier High School	Nick Grasso	6032	PS	2	A Novel Computer-aided Cloud Type Classification Method Based on Convolutional Neural Network with Squeeze-and-Excitation		
					Student(s) Jason Li	Grade 10	Town Higganum	
* American Meteorological Society --- Certificate & \$25 gift card given by CSEF								
* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF								
Milford	Jonathan Law High School	Christine Bouchard	3089	LS	2	Analyzing trends in Eastern Equine Encephalitis in order to understand why there are sudden outbreaks throughout the country.		
					Student(s) Rachna Vipparla	Grade 11	Town Milford	
* Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF								
* NYUC Pony Club Equine Award --- \$100 Cash Award or excellence in equine studies								

Conn. Science & Engineering Fair

Special Award Winners

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

New Canaan St. Aloysius School Mrs. Deborah Phillips

1016 LT 3 It's Raining Acid

Student(s) Bernadette McNamara **Grade 8** **Town** New Canaan
 Kelly Dunne **Grade 8** **Town** Stamford

* Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, air pollution related

New Haven Sound School Charles Mulligan

3088 LS 2 Potential of Ocean Acidification to Affect Physiology and Mortality of Marine Diatoms

Student(s) Jahmani Agard **Grade 9** **Town** New Haven

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

New Haven Sound School Charles Mulligan

3502 LST 2 Potential of Ocean Acidification to Interfere with Predator Prey Relationships of Coastal Invertebrates (Carcinus maenas).

Student(s) Ruby Hoffman Blustajn **Grade 9** **Town** Hamden
 Gabriella Spata **Grade 9** **Town** New Haven

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

New Haven Worthington Hooker Middle School Douglas Jones

1004 LT 2 Soil Erosion

Student(s) Bella Brown **Grade 7** **Town** New Haven
 Sierra Miller **Grade 7** **Town** New Haven

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

New London Science and Technology Magnet High School Mrs. Golden

3032 LS 2 The impact of pesticides on the nutritional value of food plants

Student(s) Laurelou Doyonnas **Grade 10** **Town** Stonington

* Institute of Food Technologists, Nutmeg Section --- \$150 award + invitation to Awards Night Dinner with guest
 * Alumni Botany Awards --- Alumni High School Botany Award- \$100 Cash

New London Science and Technology Magnet High School Karen Napolitano

3028 LS 2 The Effect of Acid Solutions on the Abrasion Resistance, Percussion Resistance, and the weight of a Snail's Shell

Student(s) Akheena Farrior-Parcak **Grade 10** **Town** Quaker Hill

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

New London Science and Technology Magnet High School Isabela Dos Santos

3042 LS 3 Alternative Natural Water Purifier

Student(s) Essoha Kadambaya **Grade 11** **Town** Norwich

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

Conn. Science & Engineering Fair

Special Award Winners

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

New London Science and Technology Magnet High School Amy Golden

3080	LS	3	Kelp-ing our Oceans: Sustainable Natural Biopolymer Alternatives for Plastic Utilized in Oyster Reef Restoration
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Student(s) Sean Raymond **Grade** 10 **Town** Mystic

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

Norwich Norwich Technical High School Aleatha Pelloni

3520	LST	1	The Effects of Alternating Red Wiggler Worms Gut Microbes to Degrade Lignin in Plants for Biofuels
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Student(s) Jessie Adams **Grade** 11 **Town** Killingly

Ontasia Perry **Grade** 11 **Town** Norwich

* The Goodwin-Niering Center for the Environment --- \$100 for "Excellence in Environmental Conservation Studies"

Orange Southern Connecticut Hebrew Academy Robyn Stewart

2016	L7	3	The Irony of Iron
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Student(s) Chaya Wilhelm **Grade** 7 **Town** Milford

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

Pawcatuck St. Michael School Mrs. Anna-Helene Grossomanides

2029	L7	1	Showdown of the Sugars: The Effect of Sugar Substitutes on Yeast Growth
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Student(s) Emerson Baltrukonis **Grade** 7 **Town** Pawcatuck

* Sister Mary Christine Life Sciences Award --- \$100 for excellence in the life sciences by a catholic middle school project

Redding CT STEM Foundation Catherine Piscitelli

6080	PS	3	Designing a Ground Collision Avoidance System to Inhibit Controlled Flight Into Terrain Accidents For Single Engine Aircraft
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Student(s) Mason Beaudette **Grade** 10 **Town** Orange

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

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

Redding CT STEM Foundation Nicholas Shamp

3017	LS	2	Creating a Wearable Device that Reduces Stress by using Vibrational Pulses
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Student(s) Sheehan Munim **Grade** 9 **Town** Orange

* TurnKey Compliance Solutions Environmental Awards --- \$300 Cash Award High School- For excellence in environmental sciences

Redding Joel Barlow High School Dr. Katherine Nuzzo

3029	LS	2	The Effect of Identification Software on the Ability to Recognize Harmful Algae Blooms
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Student(s) Eva Boyce **Grade** 11 **Town** Easton

* Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition

Conn. Science & Engineering Fair

Special Award Winners

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

Redding Joel Barlow High School Dr. Katherine Nuzzo
3105 LS 3 Applications of Coral Mucus Released by Acropora cervicornis in Collecting Microparticle Pollutants
Student(s) Meghan Ogrinz **Grade 11** **Town** Easton

* Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition

Redding Joel Barlow High School Dr. Katherine Nuzzo
6078 PS 3 Designing and Programming a Robot that Collects Plastic from Various Bodies of Water
Student(s) Kelly Weng **Grade 11** **Town** Easton

* Southeastern New England Marine Educators (SENEME) --- \$100 award and membership in SENEME - 1st Place Senior & T-Shirt

Ridgefield Ridgefield High School Xiaodi Wang
6024 PS 2 Differentially Private M-band Wavelet-Based Mechanisms in Machine Learning Environments
Student(s) Kenneth Choi **Grade 11** **Town** Ridgefield

* Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

Ridgefield Ridgefield High School Ryan Gleason
3521 LST 3 The Evolution of People Pleasing in Canis lupus irremotus in Comparison to the Canis lupus familiaris
Student(s) Laura Jeniski **Grade 12** **Town** Ridgefield
Savannah Bell **Grade 12** **Town** Ridgefield

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

Simsbury Westminster School Peter Doucette
6073 PS 2 Biases in First and Second Moments of the Fourier Coefficients in One- and Two-Parameter Families of Elliptic Curves
Student(s) Michelle(Jiefei) Wu **Grade 11** **Town** Simsbury

* Mu Alpha Theta --- Certificate, \$25 gift card given by CSEF

* Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

Southington Joseph A. Depaolo Middle School Halime Agirman
2522 L8 2 Anti-Bacterial Packaging For Foods Sourced From Natural Bee Propolis
Student(s) Zeynep Agirman **Grade 8** **Town** Southington

* Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to Awards Night Dinner with guest

* The Children's Museum --- 1 family 4-Pack of Admission Passes to the Children's Museum

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

Storrs E.O. Smith High School Cheryl Granger
6070 PS 2 Improving Wind Turbine Efficiency by Maximizing Surface Area and Decreasing Attack Angle
Student(s) Mathew Chandy **Grade 11** **Town** Storrs

* Constellation, an Exelon Company --- 2nd: \$100.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy

Conn. Science & Engineering Fair

Special Award Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Stratford	Saint Mark School	Mrs. Olins	2031	L7	3	The replication of food allergens on a hand from person to person		
			Student(s)		Shaelyn Averaimo	Grade 7	Town	Milford
* American Society of Safety Professionals, CT Valley Chapter --- \$100 grade 7-8 project								
Suffield	Suffield High School	Melanie Brown	6056	PS	3	How will climate change affect the ecosystems of Connecticut		
			Student(s)		Oliver Kelsey	Grade 10	Town	Windsor Locks
* American Meteorological Society --- Certificate & \$25 gift card given by CSEF								
Suffield	Suffield Middle School	Melanie Brown	5546	P8	3	Carbon Emission: Calculate and Reduce		
			Student(s)		Joseph Colangelo	Grade 8	Town	Suffield
* U.S. Air Force --- Certificate & \$25 gift card from CSEF								
Trumbull	Christian Heritage School	Daniel Cote	6045	PS	3	Design of a Novel Carbon Free Power Generation Source Capable of Capturing Wind Energy		
			Student(s)		Lauren Marshall	Grade 11	Town	Stratford
* University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$80,000 (\$20,000 per year)								
Trumbull	Christian Heritage School	Daniel Cote	3019	LS	3	Building a Biosphere		
			Student(s)		Pria Williams	Grade 11	Town	Trumbull
* Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF								
* National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF								
Washington	Rumsey Hall	Liz Butler	2512	L8	1	A Heart Rate Monitor to Predict Autistic Meltdowns		
			Student(s)		Junting Wang	Grade 8	Town	Washington Depot
* IEEE, Connecticut Section --- \$100 Honorable Mention								
* Robotics And Beyond --- Middle School- For excellence in engineering design; \$200 toward Robotics And Beyond STEM and Design summer camp, \$50 cash if cannot attend camp. Certificate.								
West Hartford	Kingswood Oxford School	Josh Garrison	5027	P7	3	Communicaider App		
			Student(s)		Evan Poole	Grade 7	Town	Farmington
* Connecticut Academy of Audiology --- \$200 Award MS- For Excellence in Audiology and Acoustics, oppourt. to shadow an audiologist								

Conn. Science & Engineering Fair

Special Award Winners

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

West Hartford Kingswood Oxford School Josh Garrison

5040 P7 3 Low-cost golf swing analysis to minimize injury based on analyzing motion images/videos using software

Student(s) Ryan Wang **Grade 7** **Town** unionville

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

West Hartford William H. Hall High School Mr. Norman Burtress

6012 PS 2 Multi-Wavelength Identification of Black Hole Candidates in the M13 Globular Cluster

Student(s) Ashley Granquist **Grade 12** **Town** West Hartford

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

West Haven Engineering and Science University Magnet School Roger Rushworth

6060 PS 2 The Effect of Axial Tilt of Hyperboloidal Gears on Mechanical Efficiency

Student(s) Aiman-Imran Anuar **Grade 10** **Town** West Haven

- * Connecticut Association of Physics Teachers --- \$100 Senior project
-

West Haven Engineering and Science University Magnet School Roger Rushworth

2007 L7 1 Effectiveness of the Organic Polymers for Removing Microplastic in an Aqueous Solution

Student(s) Snigtha Mohanraj **Grade 7** **Town** Ansonia

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

Westport Greens Farms Academy Mathieu Freeman

3036 LS 1 Impacts of Blue Light on the Eye Structure and Brain Activity of Drosophila Melanogaster

Student(s) Ava Ewing **Grade 12** **Town** Darien

- * American Psychological Association --- Certificate, \$25 gift card given by CSEF
 - * Kathleen & David Smith Awards --- Kathleen & David Smith Award for Laser Application - \$100
-

Westport Greens Farms Academy Mrs. Modupe Oshin

5512 P8 1 Water Filter and Water Turbine

Student(s) Jakob Zapanta **Grade 8** **Town** Bridgeport

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

Windsor Academy of Aerospace & Engineering Dr. Michelle Bellinger

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

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

- * Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Physical Sciences
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[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Windsor Academy of Aerospace and Engineering Michelle Bellinger

6517	PST	1	Cyber Attack Identification in the Electric Power Grid by Anomaly Detection				
Student(s)			Trevor Brunette	Grade 12	Town	Glastonbury	
			Christopher Reed	Grade 12	Town	Enfield	

- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * Frank J. Link Family Award for Energy Related Research --- Frank J. Link Award for Energy Related Research - \$50

Windsor Academy of Aerospace and Engineering Dr. Bellinger

4001	PT	1	Transforming Ocean Wave Energy to Electrical Energy				
Student(s)			Sujay Chava	Grade 7	Town	Ellington	
			Atul Shreyas Konda	Grade 7	Town	Cromwell	

- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

Windsor Academy of Aerospace and Engineering Dr. Michelle Bellinger

6007	PS	2	Monitoring Infant Vital Signs Through a Car Seat Embedded Piezoelectric Sensor Network				
Student(s)			Gianna Guzzo	Grade 12	Town	Suffield	

- * American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 9-12 project
- * IEEE, Connecticut Section --- \$250 Honors Award -Senior
- * Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

Windsor Academy of Aerospace and Engineering Michelle, Bellinger

4033	PT	1	Effect of Bamboo, plastic on the strength of concrete				
Student(s)			Rawan Ibrahim	Grade 7	Town	Bristol	
			Vikram Haran	Grade 12	Town	Ellington	

- * ASM Materials Education Foundation --- Certificate & \$25 gift card given by CSEF
- * CT Architecture Foundation - The William M. Mack, AIA Award --- \$250 Gift Certificate to Barnes and Noble from the Connecticut Architecture Foundation, William M. Mack, AIA Award.

Windsor Academy of Aerospace and Engineering Dr. Bellinger

5526	P8	2	Harvesting Energy From Rainwater With An Archimedean Screw.				
Student(s)			Ronak Ramesh	Grade 8	Town	Middletown	

- * Constellation, an Exelon Company --- 1st: \$100.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
- * Connecticut Science Supervisors Association --- \$125 for a middle school project
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

Conn. Science & Engineering Fair

Special Award Winners

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

Windsor Academy of Aerospace and Engineering Dr. Michelle Bellinger

6509 PST 1 Optimization of Energy Production through Active Augmentation of Hydro-Turbine Body and Blade Design.

Student(s) Avaneesh Sathish **Grade** 12 **Town** South Windsor
 Nikhlesh Sivakumar **Grade** 12 **Town** Rocky Hill

* GENIUS Olympiad --- GENIUS Olympiad Competition for HS Environmental, Energy, Ecology, or Biodiversity Project
 * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

Windsor Madina Academy Timothy Coleman

2503 L8 2 The Effects of Three Macro-nutrients on the Reaction Time of Human Subjects.

Student(s) Ismael Shelbaya **Grade** 8 **Town** South Windsor

* Jon Chapitis Memorial Award --- John Chapitis Spirit of Innovation Award - MS \$100

Windsor Madina Academy Mr. Timothy Coleman

5023 P7 1 Developing a Novel Eco-Friendly System that Recovers Wasted Thermal and Kinetic Energy From a Dryer Exhaust

Student(s) Tasneem Zoghol **Grade** 7 **Town** Enfield

* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
 * Demos R Us Award --- \$150 Cash Award-- Clear Execution of Research- 7th Grade

Windsor The Loomis Chaffee School Koby Osei-Mensah

6084 PS 3 RandGAN: Testing the Limits of Small Neural Networks

Student(s) Aresh Pourkavoos **Grade** 11 **Town** Avon

* Mu Alpha Theta --- Certificate, \$25 gift card given by CSEF

Windsor The Loomis Chaffee School Koby Osei-Mensah

3102 LS 3 Novel Wound Dressing Facilitates Rapid Detection of Infections

Student(s) Mitali Vedula **Grade** 11 **Town** Windsor

* Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a High School student, \$200 cash

Woodbridge Amity Regional High School Catherine Piscitelli

6100 PS 2 Creating and Implementing a Model that Predicts Concentrations of the Air Pollutant NO₂ in Springfield, Massachusetts

Student(s) Allison Su **Grade** 11 **Town** Woodbridge

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

Woodbridge Amity Regional High School Catherine Piscitelli

6025 PS 2 Optimization of a Real-Time Sinkhole Detection System Using Localization Methodology, Machine Learning Algorithms, and Limestone Dissolution Modeling

Student(s) Sophia Wang **Grade** 12 **Town** Woodbridge

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

Conn. Science & Engineering Fair

Special Award Winners

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

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

Grade 11 Town Woodbridge

* Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF

* University of Hartford Scholarships --- University of Hartford Scholarship- For Excellence in Science or Mathematics \$27,000