



Connecticut Science & Engineering Fair

Quinnipiac University

March 8 - 20, 2021

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, or 3rd honors
(Projects with 1st honors are Finalists in Life or Physical Science)

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
Avon	Talcott Mountain Academy	Lydia Gibb	2015	L7	2	Bedrock vs. Trees: Is There A Connection?		
					Student(s)	Aarna Panigrahi	Grade 7	Town West Hartford
* Geology/Historic Project of Merit Award --- \$100 or 2 x \$50 - Earth Science - Field work with Geologic or historic value								
Avon	Talcott Mountain Academy	Ms. Lydia Gibb	5506	P8	2	Ventilation for COVID-19: What is Effective?		
					Student(s)	Ariana Pourkavoos	Grade 8	Town Avon
* American Society of Safety Professionals, CT Valley Chapter --- \$100 grade 7-8 project								
Avon	Talcott Mountain Academy	John Pellino	5014	P7	1	Tennis Ball Disinfecter		
					Student(s)	Sia Reddy	Grade 7	Town Avon
* Samantha Freeman Award for Excellence in Sports Science or Engineering --- For Excellence in Sports Science or Engineering by a Middle School student, \$100 cash								
* Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS								
Avon	Talcott Mountain Academy	John Pellino	5015	P7	2	Secure Stove		
					Student(s)	Elias Starr	Grade 8	Town AVON
* American Society of Safety Professionals, CT Valley Chapter --- \$100 grade 7-8 project								
* IEEE, Connecticut Section --- \$100 Honorable Mention								
* John S. Kendall Memorial Awards --- \$300 John S. Kendall Award for Excellence In Mechanical Engineering - Middle School								
* Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS								
Avon	Talcott Mountain Academy	Dr. Brigette Zacharczenko	2013	L7	2	How do x-ray wavelengths affect the growth of seeds?		
					Student(s)	Sam Wu	Grade 7	Town Avon
* Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash								
Bethel	Bethel High School	Raymond Turek	3019	LS	3	The Effect of Nondiscrimination Legislation on LGBT Students		
					Student(s)	Sophie Morris	Grade 12	Town Bethel
* Ricoh Americas Corporation --- Certificate, \$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)

Bozrah Fields Memorial School Evelyn Brown

2504 L8 1 Does personality type correlate to types of emotional responses to the Covid-19 pandemic?

Student(s) Kali Kapilotis **Grade 8** **Town** Bozrah

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

Bozrah Fields Memorial School Evelyn Brown

2004 L7 2 How efficient is aquaponics compared to traditional soil-based farming?

Student(s) Sarah Martin **Grade 7** **Town** Bozrah

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

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

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

Bozrah Fields Memorial School Mrs. Brown

5007 P7 1 Electrical Testing Board For Energy Consumption

Student(s) Andrew Pagnotta **Grade 7** **Town** Bozrah

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

* MIT Club of Hartford K-12 Initiative

C/O Leon Kaatz; 111 Oak Street; Hartford, CT 06106 --- For excellence in science & technology of energy related research, middle school, \$100 cash award

* Susan Lessoff Award for Excellence In Chemistry --- Susan Lessoff Excellence In Chemistry Award -\$100 Cash and Plaque- Middle School

* Frank J. Link Family Award for Energy Related Research --- Frank J. Link Award for Energy Related Research - \$50

Bridgeport Bridgeport Regional Aquaculture Center Mr. Kirk Shadle

3024 LS 1 Developing an Adhesive Constructed from a Maize starch-based matrix Mixed with Chondrus crispus Carrageenan and Determining the Biodegradability of the Adhesive

Student(s) Matthew Duffy **Grade 12** **Town** Fairfield

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

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3089 LS 2 Determining the Efficacy of Zingiber Officinale to Promote the Degradation of Bioplastics Through Amylase Hydrolysis

Student(s) Sienna Matregrano **Grade 12** **Town** Fairfield

* GENIUS Olympiad --- GENIUS Olympiad Competition for HS Environmental, Energy, Ecology, or Biodiversity Project

Bridgeport Bridgeport Regional Aquaculture Center Mr. Kirk Shadle

3052 LS 1 The Social Interactions and Learning Abilities Between Dogfish, Observed Using Two Different Methods of Target Training.

Student(s) Clayton Nyiri **Grade 12** **Town** Fairfield

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

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Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
 3067 LS 2 Determining the Proliferation of Cellular Oxidative Stress through Blue Light Induced Reactive Oxygen Species Formation

Student(s) Gabriella Silva **Grade** 12 **Town** Bridgeport

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

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
 6016 PS 2 Harnessing Bio-Kinetic Energy Through A Wearable Non-Invasive Generator

Student(s) Alexander Vassallo **Grade** 12 **Town** Fairfield

* Wisner Memorial Award --- \$1,000 cash + Silver Bowl (\$2,000 cash if a team) High School

Bridgeport Central High School Mr. Dufe
 3049 LS 3 Can orange peels help plants to grow?

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

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

Bridgeport Fairchild Wheeler Aerospace Mr. Bergquist
 6519 PST 3 The Efficiency of Newer and Older Aircraft Designs.

Student(s) Domenic Cammarota **Grade** 10 **Town** Fairfield
 Max Markowsky **Grade** 10 **Town** Newtown

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

Bridgeport Interdistrict Discovery Magnet Helena Coatsworth
 5508 P8 1 Crystal Current

Student(s) Arden Mauborgne **Grade** 8 **Town** Easton

* Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

Bridgeport Multicultural Magnet School Corina Starn
 2517 L8 1 Microplastic Concentration in Four Harbor Locations in Fairfield County, CT

Student(s) Sofia Atehortua **Grade** 8 **Town** Bridgeport

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

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

Canton Canton High School Marsha Jorgensen
 3044 LS 1 Allelopathic Effects of Invasive Species Garlic Mustard (Alliaria petiolata) on Germination of Black Eyed Susan (Rudbeckia hirta)

Student(s) Lauren Marze **Grade** 9 **Town** Canton

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

* Banning Family Life Science Award --- For excellence in invasive species research, \$100 cash

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

Cheshire Cheshire High School Julie Barker
 6064 PS 3 VISTA: a device that measures temperature and humidity levels, by using a complex set of algorithms to calculate the temperature variance and heat index of its environment.

Student(s) Sagarika Srinivasan **Grade** 10 **Town** Cheshire

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

Cheshire Dodd Middle School Clare Gonzalez
 5005 P7 2 Separation of Food Dyes Via Column Chromatography

Student(s) Adwitha Gadhachanda **Grade** 7 **Town** Cheshire

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

Cheshire Dodd Middle School Clare Gonzalez
 5002 P7 1 A Covid-19 Social Distancing Device Using a PIR Motion Sensor and a US-100 Ultrasonic Distance Sensor

Student(s) Suchita Srinivasan **Grade** 7 **Town** Cheshire, CT

* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
 * American Society of Safety Professionals, CT Valley Chapter --- \$100 grade 7-8 project
 * IEEE, Connecticut Section --- \$100 Honorable Mention
 * Robert Francoeur Memorial Award --- Creative or innovative project in engineering or computer science by female students - \$200
 * Zepke Awards --- \$100 - For the Best Use of Electronic Circuitry- Middle School
 * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

Cheshire St. Bridget School Mrs. Michelle Carroll
 2508 L8 1 No To Nanosilver: A Natural Approach to Nanosilver Filtration

Student(s) Nilan Kathir **Grade** 8 **Town** Cheshire

* American Meteorological Society --- Certificate & \$25 gift card given by CSEF
 * J.A. Augustine Award --- \$100 for excellence in biology
 * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

Danbury Westside Middle School Academy Jonathan Neuhausel
 2011 L7 1 The Effect of UV Light on Bacteria From a Horse Blt

Student(s) Sophia Blumenreich **Grade** 7 **Town** Danbury

* NYUC Pony Club Equine Award --- \$100 Cash Award or excellence in equine studies
 * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

Danbury Westside Middle School Academy Jonathan Neuhausel
 5009 P7 1 Using Snell's Law to Calculate Index of Refraction of Solutions

Student(s) Sydney Borst **Grade** 7 **Town** Danbury

* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
 * Connecticut College-Physics, Astronomy, & Geophysics Dept. --- Junior Award: Certificate, & teeshirt & \$25 Amazon Card from CSEF
 * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp
 * Demos R Us Award --- \$150 Cash Award-- Clear Execution of Research- 7th Grade
 * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

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Danbury Westside Middle School Academy Jon Neuhausel
 5512 P8 2 The Effect of River Medium on River Erosion

Student(s) Benjamin Chaleski **Grade 8** **Town** Danbury

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

Danbury Westside Middle School Academy Jonathan Neuhausel
 5511 P8 1 The Effects of Concentrations of Acetone on the Tensile Strength of Bioplastics

Student(s) Eric Guo **Grade 8** **Town** Danbury

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

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

Danbury Westside Middle School Academy Jon Neuhausel
 2007 L7 1 The Effect of Bee Box Volume Size on Temperature and Humidity of a Wintering Bee Hive.

Student(s) Luca LaRosa **Grade 7** **Town** Danbury

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

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

* Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

Danbury Westside Middle School Academy Jon Neuhausel
 5006 P7 2 Thermoelastic energy generation using variable temperature gradients

Student(s) Kiran Suri **Grade 7** **Town** Danbury

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

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

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

* Wisner Chairman's Award --- \$500 cash & plaque MS

Danbury Westside Middle School Academy Jonathan Neuhausel
 4002 PT 1 The Benefits of Debris Deflectors on Preventing Debris Buildup in Culverts

Student(s) David Thomas **Grade 8** **Town** Danbury

Cody Zhu **Grade 8** **Town** Danbury

* Lemelson Early Inventor Award --- Certificate & \$100 cash award from Lemelson Foundation

Danbury Danbury High School Karen Lamb
 6079 PS 3 Utilizing Machine learning to Analyze Twitter posts and Predict the Election Outcome

Student(s) Shriya Jonnalagadda **Grade 9** **Town** Danbury

* Susan and Stanley Lessoff Memorial Award --- Susan and Stanley Lessoff Memorial Award - \$250 Cash and Plaque HS

East Lyme East Lyme High School Frederic Clark
 6010 PS 2 Two Speed Mechanical BMX Race Gearbox

Student(s) Jacob Hatt **Grade 10** **Town** Salem

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

East Lyme East Lyme High School Frederic Clark

6065 PS 3 Examining the Relationship Between Labor Cost and Firm Strategy Through Mixed Methods Content Analysis on Panel Data and SEC Filings

Student(s) Aditya Kabra **Grade** 11 **Town** Niantic

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

Enfield Chiaravalle Academy Tim Coleman

4003 PT 1 Toilet Power: Capturing Wasted Energy From Home Fixtures

Student(s) Lincoln Marshaus **Grade** 8 **Town** Suffield

Chloe Walker **Grade** 8 **Town** Somers

Francesca Lamattina **Grade** 8 **Town** Somers

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

* Constellation, an Exelon Company --- 1st: \$100.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy

* Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

Enfield Chiaravalle Academy Mr. Timothy Coleman

5513 P8 1 Can Diodes Be Used to Reduce the Negative Impacts of Road Salt on Streams?

Student(s) Abigail Quinby **Grade** 8 **Town** Windsor

* Demos R Us Award --- \$200 Cash Award- Clear Execution of Research- 8th Grade

* Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

Enfield Chiaravalle Academy Mr. Coleman

1004 LT 1 Agricultural Plants reaction to Climate Change

Student(s) Maya Serrano **Grade** 8 **Town** Somers

Joella Asapokhai **Grade** 8 **Town** South Windsor

Alexandria Croal **Grade** 8 **Town** Enfield

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

* Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

Fairfield Fairfield College Preparatory School Anthony Dotolo

6042 PS 2 Natural Lubricant Substitute for Railroad Applications.

Student(s) David Boudreau **Grade** 11 **Town** Ansonia

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

* Vanderbilt Chemicals, LLC --- Vanderbilt Chemicals Award for Excellence in Tribology and Sustainable Lubrication

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

Fishers Island Fishers Island School Carol Giles

3009 LS 1 Exploring Earthworm Ecotypes: Carbon Source or Sink?

Student(s) Lillian Kane **Grade** 12 **Town** Groton

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

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

[SchTown]	[School]	[Teacher]	[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)
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Greenwich	Brunswick School	Dana Montanez	6044	PS	2	Towards Clean Energy via Radioactivity: An Investigation of the Dissipation of Electrons in an Ultra High Vacuum Environment		
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Student(s) Luke Apostolides **Grade** 11 **Town** Greenwich

- * U.S. Metric Association --- Certificate & \$25 gift card given by CSEF
- * Westinghouse Electric Company/New England Chapter of North American Young Generation in Nuclear --- 1st place, Excellence in Energy Research, \$100 cash award
- * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

Greenwich	Brunswick School	Dana Montanez	6516	PST	1	An Investigation of Current-Powered, Aquatic Turbines as Alternative Energy Source		
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Student(s) Teddy Danforth **Grade** 10 **Town** Greenwich

Trip Williams **Grade** 10 **Town** Greenwich

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

Greenwich	Brunswick School	Dana Montanez	6512	PST	1	Harnessing and Repurposing Processing Heat Gradient Produced by a Computer to Reduce the Battery Lost to a Cooling Fan		
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Student(s) Gregory Kapp **Grade** 11 **Town** Greenwich

Michael Montgomery **Grade** 11 **Town** Greenwich

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

Greenwich	Brunswick School	Dana Montanez	6034	PS	2	Designing a Data-collecting Robotic System to Negate the Effects of Eutrophication		
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Student(s) Ryan Kulsakdinun **Grade** 10 **Town** Armonk

- * Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100

Greenwich	Brunswick School	Dana Montanez	6501	PST	1	Recirculating Shower Filtration System: Utilizing Natural, Cost-Efficient, and Effective Materials to Consolidate The Purification of Water		
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Student(s) Myles Spiess **Grade** 11 **Town** Old Greenwich

Nicholas Altman **Grade** 11 **Town** Mount Kisco

- * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Future Sustainability

Greenwich	Greenwich High School	Andrew Bramante	6040	PS	1	Increasing Aerofoil Lift via Artificial Amplification of the Coanda Effect using Heat		
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Student(s) Timothy Drinkall **Grade** 12 **Town** Old Greenwich

- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR
- * American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate
- * Connecticut Association of Physics Teachers --- \$100 Senior project
- * Connecticut College-Physics, Astronomy, & Geophysics Dept. --- Senior Award: Certificate, & teeshirt & \$25 Amazon Card from CSEF

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

Greenwich Greenwich High School Andrew Bramante

3037	LS	1	Rapid, Noninvasive, Fluorescence-Based Detection for Elevated Levels of Nitric Oxide in Exhaled Breath, As a Marker for Hazardous PM2.5 Exposure
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Student(s) Ambika Grover **Grade** 10 **Town** Riverside

- * Connecticut Science Supervisors Association --- \$125 for a high school project
- * Susan Lessoff Award for Excellence In Chemistry --- Susan Lessoff Excellence In Chemistry Award -\$200 Cash and Plaque - High School
- * Biophysical Society --- Biophysics Award- \$100
- * Lunch with a Patent Attorney --- Lunch with a Patent Attorney

Greenwich Greenwich High School Andrew Bramante

6058	PS	1	Design of a MFe2O4/Bentonite/Graphite Coated Polyurethane Sponge for Economical and Eco-Friendly Oil Spill Recovery
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Student(s) Autumn Kim **Grade** 12 **Town** Greenwich

- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR
- * National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEFF
- * The Goodwin-Niering Center for the Environment --- \$100 for "Excellence in Environmental Conservation Studies"

Greenwich Greenwich High School Andrew Bramante

3085	LS	3	Role of ICAM-1 in Facilitating Leukocyte Migration Across the Blood-Brain Barrier in the Progression of Multiple Sclerosis
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Student(s) Prathit Kurup **Grade** 11 **Town** Riverside

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

Greenwich Greenwich High School Andrew Bramante

6070	PS	2	Design of a Wearable, Self-Powered, and Supercapacitor Energy-Storing Biosensor for Non-invasive Real Time Blood Alcohol Monitoring via Sweat
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Student(s) Madeline Minichetti **Grade** 10 **Town** Greenwich

- * U.S. Metric Association --- Certificate & \$25 gift card given by CSEF
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR

Greenwich Greenwich High School Andrew Bramante

3107	LS	1	Inhibition of Covid-19 Respiratory Complications Via an R-954 Peptide Bradykinin 1 Receptor Antagonist
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Student(s) Ella Moore **Grade** 11 **Town** Greenwich

- * Yale Science & Engineering Association, Inc. --- 1 Certificate, Medallion and 1- \$25 gift card given by CSEF
- * Lunch with a Patent Attorney ---

Greenwich Greenwich High School Andrew Bramante

3025	LS	1	Low-Pressure Application of Metal Nanoparticles to Soybean Seeds to Provide Increased
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Student(s) Uma Pendkar **Grade** 12 **Town** Old Greenwich

- * Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to Awards Night Dinner with guest
- * TurnKey Compliance Solutions Environmental Awards --- \$300 Cash Award High School- For excellence in environmental sciences
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Environmental Project

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

Greenwich Greenwich High School Mr. Andrew Bramante

3111	LS	1	Prolonged, Smart Treatment of Multi-Drug Resistant Bacteria of Chronic Wounds via an EGCG-AgNP HydroMed Dressing
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Student(s) Yurika Sakai **Grade** 10 **Town** Greenwich

* Regeneron Biomedical Science Award --- Certificate & \$500.00 cash

Greenwich Greenwich High School Andrew Bramante

6018	PS	2	Eco-friendly Remediation of Arsenic from Contaminated Water Resources Using Iron Fortified Spinach Roots and Biochar
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Student(s) Elizabeth Wallace **Grade** 10 **Town** Greenwich

- * American Meteorological Society --- Certificate & \$25 gift card given by CSEF
- * Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF
- * Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition
- * J.A. Augustine Award --- \$100 for excellence in physical sciences

Greenwich Sacred Heart Greenwich Joan Fei

6041	PS	1	Testing an Activated Carbon Cloth Filter to Reduce the Prevalence of Phosphates and Nitrates in the Long Island Sound
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Student(s) Abby Barnett **Grade** 11 **Town** Darien

- * Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition
- * University of Hartford Scholarships --- University of Hartford Scholarship- For Excellence in Engineering, or Technology, \$27,000
- * Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt & cap, First Place Senior

Greenwich Sacred Heart Greenwich Joan Fei

3054	LS	1	Surveying Adolescent Public Opinion and Knowledge on Nuclear Energy
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Student(s) Emma Rose Connolly **Grade** 12 **Town** Yonkers

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

Greenwich Sacred Heart Greenwich Joan Fei

6003	PS	2	Uncovering Abnormalities in Asteroids Using Asteroid Occultation
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Student(s) Katherine May **Grade** 10 **Town** Wilton

- * Astronomical Society of Greater Hartford - The Charles Hammond Award for Excellence in Astronomy --- Senior Project-\$150, subscription to Sky and Telescope, ASGH membership and meeting invitation

Greenwich Sacred Heart Greenwich Alycia Crane

3039	LS	3	Testing for Arsenic Contamination in Well, Municipal, and Agricultural Sources
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Student(s) Sam Novak **Grade** 12 **Town** stamford

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

Guilford Guilford High School Luke Rosnick

6001	PS	1	Assessing the relationship between COVID-19 prevalence and optimal pool testing size
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Student(s) Jerry Li **Grade** 11 **Town** Guilford

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

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Special Award Winners

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Guilford	Guilford High School	Dr. James Carlson	6023	PS	2	Developing a More Consistent Renewable Energy Source		
					Student(s)	Michael Neiss	Grade 10	Town Guilford
* National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF * Fox Pest Control Award for Environmental Management --- \$150 Cash for Excellence in Environmental Management								
Hamden	Sacred Heart Academy	Elizabeth Christophy	3006	LS	3	Transmission of COVID-19 Through Aerosols Spread by Musical Instruments		
					Student(s)	Gianna Gassira	Grade 10	Town North Branford
* American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 9-12 project								
Hartford	Environmental Sciences Magnet School	Mrs. Hays	2510	L8	1	COVID-19's Impact on Water Quality in Recreational Areas Along the Long Island Sound Coastline		
					Student(s)	Isabella D'Agostino	Grade 8	Town New Brittan
* Southeastern New England Marine Educators (SENEME) --- \$100 award and membership in SENEME - 1st Place Junior & T-Shirt * 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	2511	L8	1	Dog- Be Gone- Plastic: An evaluation of dog waste bag materials and biodegradation		
					Student(s)	Patroklos Pitsoulis	Grade 8	Town EAST HARTFORD
* Connecticut Science Supervisors Association --- \$125 for a middle school project								
Kent	Kent School	Kevin Saxton	6075	PS	3	Wildlife Recognition from Camera Trap Data using Computer Vision Algorithms		
					Student(s)	Yuanqin (Albert) Dai	Grade 11	Town Newton
* Kathleen & David Smith Awards --- Kathleen & David Smith Award for Innovative Concept - \$100								
Kent	Kent School	Michael Green	6089	PS	2	Influence of magnetic field on the viscosity of fluids doped with conducting and non-conducting particulates		
					Student(s)	Shaun Gu	Grade 11	Town Beijing
* University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Frontiers in Science - Co-Op \$100 Gift Certificate								
Kent	Kent School	Jesse Klingebiel	3086	LS	2	Examining the energy efficiency of variations of Synechocystis nigrescens and Shewanella oneidensis bioinks in biophotovoltaic cells		
					Student(s)	Youngju Jang	Grade 11	Town Holbrook
* Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF								

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

6072	PS	1	Exoskeleton Hand Based on MMG Signals for Partially Paralyzed Patients					
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Student(s) Siyi Lu **Grade** 10 **Town** Kent

* IEEE, Connecticut Section --- \$100 Honorable Mention

Manchester Manchester High School Wendy Turek

3032	LS	2	The Effects of Bacillus and Trichoderma Inoculant and Lepidum Sativum on					
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Student(s) Alexandra Hamza **Grade** 11 **Town** Manchester

* University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$80,000 (\$20,000 per year)

Manchester Manchester High School Wendy Turek

6033	PS	3	Lego Prosthetic Arm					
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Student(s) Hina Naeem **Grade** 12 **Town** Manchester

* Robert Francoeur Memorial Award --- Creative or innovative project in engineering or computer science by female students - \$200

New Haven Engineering & Science University Magnet School Roger Rushworth

6032	PS	2	Gravity-Assisted Energy Conversion: Improving the Feasibility of Mechanically Powered Electricity Generators					
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Student(s) Aiman-Imran Anuar **Grade** 11 **Town** West Haven

* Jon Chapis Memorial Award --- John Chapis Spirit of Innovation Award - HS \$200

* University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$80,000, \$20,000 per year)

* Fred Olender Urban School Challenge Award --- \$250 Cash Award for HS student in USC school

New Haven Engineering & Science University Magnet School Roger Rushworth

6066	PS	3	Natural Function Restrictions, Identities, and Properties to Determine Finite Cardinalities of Solutions for Real-Valued Functions Projected onto Natural Space					
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Student(s) Praneeth Chitirala **Grade** 10 **Town** Milford

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

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

New Haven Engineering & Science University Magnet School Roger Rushworth

5501	P8	1	Implementation of Metal-Oxide-Induced Agglomeration and Electromagnetic Filtration for Removal of Microplastics					
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Student(s) Snigtha Mohanraj **Grade** 8 **Town** Ansonia

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

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

* Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 8th grader- Project Oceanology's Ocean Camp

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

* GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project

* Environmental / Energy Award- Urban Public School Award --- Environmental / Energy Award- Urban Public School Award - \$431.40

* Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

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

New Haven Engineering & Science University Magnet School Roger Rushworth
 3069 LS 3 EVALUATION OF A MODEL FOR URBAN VEGETATION BARRIERS' EFFECTS ON AIR POLLUTION
Student(s) Ray Nassar **Grade 10** **Town Milford**

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

New Haven Hopkins School Nathaniel Peters
 6076 PS 1 Developing Tetherless Motion Tracking System for Wandering Insects Using an Omni-directional Servosphere Robot
Student(s) Nicholas Lee **Grade 10** **Town Trumbull**

* IEEE, Connecticut Section --- \$100 Honorable Mention

New Haven Hopkins School Dr. Phillip Stewart
 6092 PS 2 The Core of Neptune: Discovery of the First Sub-Neptune Planet with a Stripped Envelope
Student(s) David Zhou **Grade 12** **Town WESTPORT**

* Astronomical Society of Greater Hartford - The Charles Hammond Award for Excellence in Astronomy --- Junior Project-\$100, subscription to Sky and Telescope, ASGH membership and meeting invitation

Norwich Norwich Technical High School Aleatha Pelloni
 3509 LST 3 Converting Natural Byproducts Into Soil Compost For Crops Using The Bokashi Method
Student(s) Luis Salazar **Grade 11** **Town Willimantic**
Nina Mendez **Grade 11** **Town Sterling**
Gabriella Fedus **Grade 11** **Town Oakdale**

* GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place Technical High School

Pawcatuck St. Michael School Anna-Helene Grossomanides
 5008 P7 1 Remote Learning on a Budget
Student(s) Joseph Benin **Grade 7** **Town Pawcatuck**

* IEEE, Connecticut Section --- \$250 Honors Award -Junior

* Susan and Stanley Lessoff Memorial Award --- Susan and Stanley Lessoff Memorial Award - \$250 Cash and Plaque MS

Pawcatuck St. Michael School Anna Grossomanides
 5509 P8 1 Are All Masks Equal?
Student(s) Katelyn Cadmus **Grade 8** **Town Pawcatuck**

* Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100

Pawcatuck St. Michael School Anna Grossomanides
 5505 P8 3 How much water can a Solar-powered water desalination unit produce?
Student(s) Cameron Cornelius **Grade 8** **Town Bradford**

* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$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)
Redding	Joel Barlow High School	Paul Testa	6048	PS	3	The Effect of Various Ammonium Nitrate Concentrations on Rates of Transpiration in Phaseolus lunatus to Ameliorate Drought Tolerance		
					Student(s)	Reed Cooper	Grade 11	Town Easton
* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF								
Redding	Joel Barlow High School	Paul Testa	3004	LS	1	The Use of Pleurotus Ostreatus As Mycoremediation for Poly-Lactic Acid Plastic In Landfills.		
					Student(s)	Alexis Ogrinz	Grade 11	Town Easton
* Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF								
Riverside	Eastern Middle School	Ms. Iannacone	2519	L8	1	Can trust kill? Covid-19 and Social Capital		
					Student(s)	Zara Haque	Grade 8	Town Riverside
* Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS								
Sandy Hook	Newtown High School	Timothy DeJulio	6005	PS	2	Accessible program and system to accurately align a star tracking mount using a DSLR camera.		
					Student(s)	Sam Staubly	Grade 11	Town Newtown
* Jon Chapitis Memorial Award --- John Chapitis Spirit of Innovation Award - MS \$100								
Simsbury	Westminster School	Susie Bailey	6085	PS	3	Hazel, an olfactory mood enhancer, alarm clock, and safety monitor		
					Student(s)	Jiwoong Park	Grade 12	Town Brooklyn
* Zepke Awards --- \$125 - For the Best Use of Electronic Circuitry- Senior High								
Stamford	Bi-Cultural Hebrew Academy	Christopher Graseck	1006	LT	1	Studying Four Climate Change Factors that Impact Plant Growth		
					Student(s)	David Isaacs	Grade 7	Town Stamford
						Gabriel Haron	Grade 7	Town Stamford
* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF								
* Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS for 1st - 4th MS winners								
Stamford	King School	Victoria Schulman	3084	LS	1	Non-Canonical Base Pairing in Self-Assembling DNA Crystals		
					Student(s)	William Bernfeld	Grade 11	Town Stamford
* Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF								
Stamford	King School	Victoria Schulman	6053	PS	3	Clustering of TiMnOx XAFS Data		
					Student(s)	John Russell	Grade 11	Town Riverside
* ASM Materials Education Foundation --- Certificate & \$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)
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Suffield	Suffield High School	Melanie Brown	3513	LST	3	Creating Energy with Household Food Waste		
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Student(s)	John-Henry Burke	Grade 11	Town	Suffield
	Isabella Hinkle	Grade 11	Town	Suffield

* Institute of Food Technologists, Nutmeg Section --- \$150 award + invitation to Awards Night Dinner with guest

Suffield	Suffield High School	Melanie Brown	6007	PS	3	Utilization of Self- Sanitizing Hydraulic Arm for Reduction of Illness Transmission		
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Student(s)	Haley Young	Grade 12	Town	West Suffield
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* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

Trumbull	Christian Heritage School	Dan Cote	6060	PS	1	Building a Machine to Test Whether Certain Facemasks Are Protective or Not		
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Student(s)	Maxwell Barbagallo	Grade 11	Town	Sandy Hook
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* American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 9-12 project

Trumbull	Christian Heritage School	Daniel Cote	6014	PS	3	Renewable Energy: Converting Vibrational Motion		
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Student(s)	Natania Muriel	Grade 11	Town	Shelton
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* Society of Women Engineers - Hartford Section --- Scientific Calculator

Trumbull	Christian Heritage School	Dan Cote	6020	PS	2	Design and Fabrication of a Thermoelectric Generator to Charge a Phone Using Simple Fuels for Remote Areas		
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Student(s)	Nathan Nagel	Grade 11	Town	Caucasian/White
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* University of Hartford Scholarships --- University of Hartford Scholarship- For Excellence in Engineering, or Technology, \$27,000

Uncasville	Saint Bernard School	Nicole Nelson	6087	PS	2	The Hat and the Mouse: A Practical Hands-Free Method to Control a Personal Computer		
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Student(s)	Payton Noe	Grade 10	Town	East Lyme
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* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR
 * Dreams Unlimited Award --- \$100 Cash Award + Certificate to each student

Wallingford	Choate Rosemary Hall	Kyle Di Tieri	6063	PS	2	Development of an autonomously driving robot which can remotely scan body temperature to screen for COVID-19		
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Student(s)	Ryan Kim	Grade 10	Town	Wallingford
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* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR
 * IEEE, Connecticut Section --- \$250 Honors Award -Senior

Conn. Science & Engineering Fair

Special Award Winners

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

3014	LS	2	Combatting Nitrogen Pollution and Eutrophication Using Denitrifying Bioreactors					
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Student(s) Jessica Wu **Grade** 11 **Town** Wilton

- * Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition
- * University of Hartford Scholarships --- University of Hartford Scholarship- For Excellence in Science or Mathematics \$27,000

Westport Greens Farms Academy Mathieu Freeman

6026	PS	2	The Effect of pH on Chlorophyll-a Concentration and the Net Primary Productivity of Phytoplankton					
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Student(s) Lucy Nelson **Grade** 12 **Town** Westport

- * Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF
- * Southeastern New England Marine Educators (SENEME) --- \$100 award and membership in SENEME - 1st Place Senior & T-Shirt

Westport Greens Farms Academy Mathieu Freeman

6021	PS	2	The Fabrication of a Cost-Effective Paper LIB with Increased Voltage and Longevity					
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Student(s) Jackson Rassias **Grade** 12 **Town** Fairfield

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

Windsor Madina Academy Mr. Timothy Coleman

2515	L8	3	Building and Testing a Simple Portable Constructed Wetland to Purify Greywater					
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Student(s) Tasneem Zoghol **Grade** 8 **Town** Enfield

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

Windsor The Loomis Chaffee School Mr. Osei-Mensah

6013	PS	2	Identifying the host galaxies of 2175 Å quasar absorbers.					
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Student(s) Benson Wang **Grade** 10 **Town** San Ramon

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

Woodbridge Amity Regional High School Catherine Piscitelli

6057	PS	1	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** 11 **Town** Orange

- * U.S. Air Force --- Certificate & \$25 gift card from CSEF
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * Wisner Chairman's Award --- \$500 cash & plaque HS
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

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

Woodbridge Amity Regional High School Catherine Piscitelli

6024	PS	2	Development of a Low-Cost, Expandable Boot Aimed to Adjust to Multiple Sizes and Last Multiple Years.
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Student(s) Aditi Chalasani **Grade** 11 **Town** Orange

- * ASM Materials Education Foundation --- Certificate & \$25 gift card given by CSEF
- * University of Connecticut Academic Excellence Scholarship --- Academic Excellence Physical Sci. scholarship - \$7,500 /year, four academic years- (\$30,000 total)
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

Woodbridge Amity Regional High School Catherine Piscitelli

6025	PS	2	The Manufacture and Performance Evaluation of a Locking Container to Eliminate the Distraction of Phones While Driving
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Student(s) Scott Lowder **Grade** 11 **Town** Orange

- * American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 9-12 project
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

Woodbridge Amity Regional High School Catherine Piscitelli

6039	PS	1	Creating a Smaller and More Portable Vertical Axis Wind Turbine to Increase Accessibility and Usage of Wind Energy Harvesting Devices
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Student(s) Brodey Lu **Grade** 11 **Town** Orange

- * American Meteorological Society --- Certificate & \$25 gift card given by CSEF
- * Constellation, an Exelon Company --- 1st: \$150.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy
- * 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.
- * MIT Club of Hartford K-12 Initiative
 C/O Leon Kaatz; 111 Oak Street; Hartford, CT 06106 --- For excellence in science & technology of energy related research, high school, \$100 cash award
- * Frank J. Link Family Award for Energy Related Research --- Frank J. Link Award for Energy Related Research - \$50
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2