



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.

[SchTown] [School] [Teacher]
[Proj#] [FCat] [Project Title]

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|-------------------|--|---------------------------|------|----|--|-------------------------------------|-----------------|---------------------------|
| Avon | Talcott Mountain Academy | Lydia Gibb | 2015 | L7 | Bedrock vs. Trees: Is There A Connection? | Student(s) Aarna Panigrahi | Grade 7 | Town West Hartford |
| Avon | Talcott Mountain Academy | Ms. Lydia Gibb | 5506 | P8 | Ventilation for COVID-19: What is Effective? | Student(s) Ariana Pourkavoos | Grade 8 | Town Avon |
| Avon | Talcott Mountain Academy | John Pellino | 5014 | P7 | Tennis Ball Disinfector | Student(s) Sia Reddy | Grade 7 | Town Avon |
| Avon | Talcott Mountain Academy | John Pellino | 5015 | P7 | Secure Stove | Student(s) Elias Starr | Grade 8 | Town AVON |
| Avon | Talcott Mountain Academy | Dr. Brigette Zacharczenko | 2013 | L7 | How do x-ray wavelengths affect the growth of seeds? | Student(s) Sam Wu | Grade 7 | Town Avon |
| Bethel | Bethel High School | Raymond Turek | 3019 | LS | The Effect of Nondiscrimination Legislation on LGBT Students | Student(s) Sophie Morris | Grade 12 | Town Bethel |
| Bozrah | Fields Memorial School | Evelyn Brown | 2504 | L8 | Does personality type correlate to types of emotional responses to the Covid-19 pandemic? | Student(s) Kali Kapilotis | Grade 8 | Town Bozrah |
| Bozrah | Fields Memorial School | Evelyn Brown | 2004 | L7 | How efficient is aquaponics compared to traditional soil-based farming? | Student(s) Sarah Martin | Grade 7 | Town Bozrah |
| Bozrah | Fields Memorial School | Mrs. Brown | 5007 | P7 | Electrical Testing Board For Energy Consumption | Student(s) Andrew Pagnotta | Grade 7 | Town Bozrah |
| Bridgeport | Bridgeport Regional Aquaculture Center | Mr. Kirk Shadle | 3024 | LS | 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 |
| Bridgeport | Bridgeport Regional Aquaculture Center | Kirk Shadle | 3089 | LS | Determining the Efficacy of Zingiber Officinale to Promote the Degradation of Bioplastics Through Amylase Hydrolysis | Student(s) Sienna Matregrano | Grade 12 | Town Fairfield |

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Bridgeport Bridgeport Regional Aquaculture Center Mr. Kirk Shadle
 3052 LS The Social Interactions and Learning Abilities Between Dogfish, Observed Using Two Different Methods of Target Training.
Student(s) Clayton Nyiri **Grade** 12 **Town** Fairfield

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
 3067 LS Determining the Proliferation of Cellular Oxidative Stress through Blue Light Induced Reactive Oxygen Species Formation
Student(s) Gabriella Silva **Grade** 12 **Town** Bridgeport

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
 6016 PS Harnessing Bio-Kinetic Energy Through A Wearable Non-Invasive Generator
Student(s) Alexander Vassallo **Grade** 12 **Town** Fairfield

Bridgeport Central High School Mr. Dufe
 3049 LS Can orange peels help plants to grow?
Student(s) Aliyah Smith **Grade** 9 **Town** Bridgeport

Bridgeport Fairchild Wheeler Aerospace Mr. Bergquist
 6519 PST The Efficiency of Newer and Older Aircraft Designs.
Student(s) Domenic Cammarota **Grade** 10 **Town** Fairfield
 Max Markowsky **Grade** 10 **Town** Newtown

Bridgeport Interdistrict Discovery Magnet Helena Coatsworth
 5508 P8 Crystal Current
Student(s) Arden Mauborgne **Grade** 8 **Town** Easton

Bridgeport Multicultural Magnet School Corina Starn
 2517 L8 Microplastic Concentration in Four Harbor Locations in Fairfield County, CT
Student(s) Sofia Atehortua **Grade** 8 **Town** Bridgeport

Canton Canton High School Marsha Jorgensen
 3044 LS 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

Cheshire Cheshire High School Julie Barker
 6064 PS 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

Cheshire Dodd Middle School Clare Gonzalez
 5005 P7 Separation of Food Dyes Via Column Chromatography
Student(s) Adwitha Gadachanda **Grade** 7 **Town** Cheshire

Cheshire Dodd Middle School Clare Gonzalez
 5002 P7 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

Conn. Science & Engineering Fair

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[SchTown] [School] [Teacher]
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| | | | | | | | | |
|------------------|--------------------------------|-----------------------|------|----|--|--|----------------------------------|--|
| Cheshire | St. Bridget School | Mrs. Michelle Carroll | 2508 | L8 | No To Nanosilver: A Natural Approach to Nanosilver Filtration | Student(s) Nilan Kathir | Grade 8 | Town Cheshire |
| Danbury | Westside Middle School Academy | Jonathan Neuhausel | 2011 | L7 | The Effect of UV Light on Bacteria From a Horse Blt | Student(s) Sophia Blumenreich | Grade 7 | Town Danbury |
| Danbury | Westside Middle School Academy | Jonathan Neuhausel | 5009 | P7 | Using Snell's Law to Calculate Index of Refraction of Solutions | Student(s) Sydney Borst | Grade 7 | Town Danbury |
| Danbury | Westside Middle School Academy | Jon Neuhausel | 5512 | P8 | The Effect of River Medium on River Erosion | Student(s) Benjamin Chaleski | Grade 8 | Town Danbury |
| Danbury | Westside Middle School Academy | Jonathan Neuhausel | 5511 | P8 | The Effects of Concentrations of Acetone on the Tensile Strength of Bioplastics | Student(s) Eric Guo | Grade 8 | Town Danbury |
| Danbury | Westside Middle School Academy | Jon Neuhausel | 2007 | L7 | The Effect of Bee Box Volume Size on Temperature and Humidity of a Wintering Bee Hive. | Student(s) Luca LaRosa | Grade 7 | Town Danbury |
| Danbury | Westside Middle School Academy | Jon Neuhausel | 5006 | P7 | Thermoelastic energy generation using variable temperature gradients | Student(s) Kiran Suri | Grade 7 | Town Danbury |
| Danbury | Westside Middle School Academy | Jonathan Neuhausel | 4002 | PT | The Benefits of Debris Deflectors on Preventing Debris Buildup in Culverts | Student(s) David Thomas Cody Zhu | Grade 8 Grade 8 | Town Danbury Town Danbury |
| Danbury | Danbury High School | Karen Lamb | 6079 | PS | Utilizing Machine learning to Analyze Twitter posts and Predict the Election Outcome | Student(s) Shriya Jonnalagadda | Grade 9 | Town Danbury |
| East Lyme | East Lyme High School | Frederic Clark | 6010 | PS | Two Speed Mechanical BMX Race Gearbox | Student(s) Jacob Hatt | Grade 10 | Town Salem |
| East Lyme | East Lyme High School | Frederic Clark | 6065 | PS | 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 |

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Enfield Chiaravalle Academy Tim Coleman

4003 PT Toilet Power: Capturing Wasted Energy From Home Fixtures

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|------------------------------------|----------------|----------------------|
| Student(s) Lincoln Marshaus | Grade 8 | Town Suffield |
| Chloe Walker | Grade 8 | Town Somers |
| Francesca Lamattina | Grade 8 | Town Somers |

Enfield Chiaravalle Academy Mr. Timothy Coleman

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

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| Student(s) Abigail Quinby | Grade 8 | Town Windsor |
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Enfield Chiaravalle Academy Mr. Coleman

1004 LT Agricultural Plants reaction to Climate Change

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| Student(s) Maya Serrano | Grade 8 | Town Somers |
| Joella Asapokhai | Grade 8 | Town South Windsor |
| Alexandria Croal | Grade 8 | Town Enfield |

Fairfield Fairfield College Preparatory School Anthony Dotolo

6042 PS Natural Lubricant Substitute for Railroad Applications.

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|----------------------------------|-----------------|---------------------|
| Student(s) David Boudreau | Grade 11 | Town Ansonia |
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Fishers Island Fishers Island School Carol Giles

3009 LS Exploring Earthworm Ecotypes: Carbon Source or Sink?

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| Student(s) Lillian Kane | Grade 12 | Town Groton |
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Greenwich Brunswick School Dana Montanez

6044 PS 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 |
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Greenwich Brunswick School Dana Montanez

6516 PST 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 |

Greenwich Brunswick School Dana Montanez

6512 PST 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 |

Greenwich Brunswick School Dana Montanez

6034 PS Designing a Data-collecting Robotic System to Negate the Effects of Eutrophication

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| Student(s) Ryan Kulsakdinun | Grade 10 | Town Armonk |
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Greenwich Brunswick School Dana Montanez

6501 PST 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 |

Conn. Science & Engineering Fair

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Greenwich Greenwich High School Andrew Bramante

6040 PS Increasing Aerofoil Lift via Artificial Amplification of the Coanda Effect using Heat

Student(s) Timothy Drinkall

Grade 12 Town Old Greenwich

Greenwich Greenwich High School Andrew Bramante

3037 LS Rapid, Noninvasive, Fluorescence-Based Detection for Elevated Levels of Nitric Oxide in Exhaled Breath, As a Marker for Hazardous PM2.5 Exposure

Student(s) Ambika Grover

Grade 10 Town Riverside

Greenwich Greenwich High School Andrew Bramante

6058 PS Design of a MFe₂O₄/Bentonite/Graphite Coated Polyurethane Sponge for Economical and Eco-Friendly Oil Spill Recovery

Student(s) Autumn Kim

Grade 12 Town Greenwich

Greenwich Greenwich High School Andrew Bramante

3085 LS Role of ICAM-1 in Facilitating Leukocyte Migration Across the Blood-Brain Barrier in the Progression of Multiple Sclerosis

Student(s) Prathit Kurup

Grade 11 Town Riverside

Greenwich Greenwich High School Andrew Bramante

6070 PS Design of a Wearable, Self-Powered, and Supercapacitor Energy-Storing Biosensor for Non-invasive Real Time Blood Alcohol Monitoring via Sweat

Student(s) Madeline Minichetti

Grade 10 Town Greenwich

Greenwich Greenwich High School Andrew Bramante

3107 LS Inhibition of Covid-19 Respiratory Complications Via an R-954 Peptide Bradykinin 1 Receptor Antagonist

Student(s) Ella Moore

Grade 11 Town Greenwich

Greenwich Greenwich High School Andrew Bramante

3025 LS Low-Pressure Application of Metal Nanoparticles to Soybean Seeds to Provide Increased

Student(s) Uma Pendkar

Grade 12 Town Old Greenwich

Greenwich Greenwich High School Mr. Andrew Bramante

3111 LS Prolonged, Smart Treatment of Multi-Drug Resistant Bacteria of Chronic Wounds via an EGCG-AgNP HydroMed Dressing

Student(s) Yurika Sakai

Grade 10 Town Greenwich

Greenwich Greenwich High School Andrew Bramante

6018 PS Eco-friendly Remediation of Arsenic from Contaminated Water Resources Using Iron Fortified Spinach Roots and Biochar

Student(s) Elizabeth Wallace

Grade 10 Town Greenwich

Greenwich Sacred Heart Greenwich Joan Fei

6041 PS Testing an Activated Carbon Cloth Filter to Reduce the Prevalence of Phosphates and Nitrates in the Long Island Sound

Student(s) Abby Barnett

Grade 11 Town Darien

Greenwich Sacred Heart Greenwich Joan Fei

3054 LS Surveying Adolescent Public Opinion and Knowledge on Nuclear Energy

Student(s) Emma Rose Connolly

Grade 12 Town Yonkers

Conn. Science & Engineering Fair

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[SchTown] [School] [Teacher]
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Greenwich Sacred Heart Greenwich Joan Fei

6003 PS Uncovering Abnormalities in Asteroids Using Asteroid Occultation

Student(s) Katherine May

Grade 10 Town Wilton

Greenwich Sacred Heart Greenwich Alycia Crane

3039 LS Testing for Arsenic Contamination in Well, Municipal, and Agricultural Sources

Student(s) Sam Novak

Grade 12 Town stamford

Guilford Guilford High School Luke Rosnick

6001 PS Assessing the relationship between COVID-19 prevalence and optimal pool testing size

Student(s) Jerry Li

Grade 11 Town Guilford

Guilford Guilford High School Dr. James Carlson

6023 PS Developing a More Consistent Renewable Energy Source

Student(s) Michael Neiss

Grade 10 Town Guilford

Hamden Sacred Heart Academy Elizabeth Christophy

3006 LS Transmission of COVID-19 Through Aerosols Spread by Musical Instruments

Student(s) Gianna Gassira

Grade 10 Town North Branford

Hartford Environmental Sciences Magnet School Mrs. Hays

2510 L8 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

Hartford Environmental Sciences Magnet School MS. HAYS

2511 L8 Dog- Be Gone- Plastic: An evaluation of dog waste bag materials and biodegradation

Student(s) Patroklos Pitsoulis

Grade 8 Town EAST HARTFORD

Kent Kent School Kevin Saxton

6075 PS Wildlife Recognition from Camera Trap Data using Computer Vision Algorithms

Student(s) Yuanqin (Albert) Dai

Grade 11 Town Newton

Kent Kent School Michael Green

6089 PS Influence of magnetic field on the viscosity of fluids doped with conducting and non-conducting particulates

Student(s) Shaun Gu

Grade 11 Town Beijing

Kent Kent School Jesse Klingebiel

3086 LS Examining the energy efficiency of variations of Synechocystis nigrescens and Shewanella oneidensis bioinks in biophotovoltaic cells

Student(s) Youngju Jang

Grade 11 Town Holbrook

Kent Kent School Jesse Klingebiel

6072 PS Exoskeleton Hand Based on MMG Signals for Partially Paralyzed Patients

Student(s) Siyi Lu

Grade 10 Town Kent

Manchester Manchester High School Wendy Turek

3032 LS The Effects of Bacillus and Trichoderma Inoculant and Lepidum Sativum on

Student(s) Alexandra Hamza

Grade 11 Town Manchester

Conn. Science & Engineering Fair

Special Award Winners

[SchTown] [School] [Teacher]
[Proj#] [FCat] [Project Title]

Manchester Manchester High School Wendy Turek

6033 PS Lego Prosthetic Arm

Student(s) Hina Naeem **Grade 12** **Town** Manchester

New Haven Engineering & Science University Magnet School Roger Rushworth

6032 PS Gravity-Assisted Energy Conversion: Improving the Feasibility of Mechanically Powered Electricity Generators

Student(s) Aiman-Imran Anuar **Grade 11** **Town** West Haven

New Haven Engineering & Science University Magnet School Roger Rushworth

6066 PS Natural Function Restrictions, Identities, and Properties to Determine Finite Cardinalities of Solutions for Real-Valued Functions Projected onto Natural Space

Student(s) Praneeth Chitirala **Grade 10** **Town** Milford

New Haven Engineering & Science University Magnet School Roger Rushworth

5501 P8 Implementation of Metal-Oxide-Induced Agglomeration and Electromagnetic Filtration for Removal of Microplastics

Student(s) Snigtha Mohanraj **Grade 8** **Town** Ansonia

New Haven Engineering & Science University Magnet School Roger Rushworth

3069 LS EVALUATION OF A MODEL FOR URBAN VEGETATION BARRIERS' EFFECTS ON AIR POLLUTION

Student(s) Ray Nassar **Grade 10** **Town** Milford

New Haven Hopkins School Nathaniel Peters

6076 PS Developing Tetherless Motion Tracking System for Wandering Insects Using an Omni-directional Servosphere Robot

Student(s) Nicholas Lee **Grade 10** **Town** Trumbull

New Haven Hopkins School Dr. Phillip Stewart

6092 PS The Core of Neptune: Discovery of the First Sub-Neptune Planet with a Stripped Envelope

Student(s) David Zhou **Grade 12** **Town** WESTPORT

Norwich Norwich Technical High School Aleatha Pelloni

3509 LST 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

Pawcatuck St. Michael School Anna-Helene Grossomanides

5008 P7 Remote Learning on a Budget

Student(s) Joseph Benin **Grade 7** **Town** Pawcatuck

Pawcatuck St. Michael School Anna Grossomanides

5509 P8 Are All Masks Equal?

Student(s) Katelyn Cadmus **Grade 8** **Town** Pawcatuck

Pawcatuck St. Michael School Anna Grossomanides

5505 P8 How much water can a Solar-powered water desalination unit produce?

Student(s) Cameron Cornelius **Grade 8** **Town** Bradford

Redding Joel Barlow High School Paul Testa

6048 PS 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

Conn. Science & Engineering Fair

Special Award Winners

[SchTown] [School] [Teacher]
[Proj#] [FCat] [Project Title]

Redding Joel Barlow High School Paul Testa

3004 LS The Use of Pleurotus Ostreatus As Mycoremediation for Poly-Lactic Acid Plastic In Landfills.

Student(s) Alexis Ogrinz **Grade** 11 **Town** Easton

Riverside Eastern Middle School Ms. Iannacone

2519 L8 Can trust kill? Covid-19 and Social Capital

Student(s) Zara Haque **Grade** 8 **Town** Riverside

Sandy Hook Newtown High School Timothy DeJulio

6005 PS Accessible program and system to accurately align a star tracking mount using a DSLR camera.

Student(s) Sam Staubly **Grade** 11 **Town** Newtown

Simsbury Westminster School Susie Bailey

6085 PS Hazel, an olfactory mood enhancer, alarm clock, and safety monitor

Student(s) Jiwoong Park **Grade** 12 **Town** Brooklyn

Stamford Bi-Cultural Hebrew Academy Christopher Graseck

1006 LT Studying Four Climate Change Factors that Impact Plant Growth

Student(s) David Isaacs **Grade** 7 **Town** Stamford
Gabriel Haron **Grade** 7 **Town** Stamford

Stamford King School Victoria Schulman

3084 LS Non-Canonical Base Pairing in Self-Assembling DNA Crystals

Student(s) William Bernfeld **Grade** 11 **Town** Stamford

Stamford King School Victoria Schulman

6053 PS Clustering of TiMnOx XAFS Data

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

Suffield Suffield High School Melanie Brown

3513 LST Creating Energy with Household Food Waste

Student(s) John-Henry Burke **Grade** 11 **Town** Suffield
Isabella Hinkle **Grade** 11 **Town** Suffield

Suffield Suffield High School Melanie Brown

6007 PS Utilization of Self- Sanitizing Hydraulic Arm for Reduction of Illness Transmission

Student(s) Haley Young **Grade** 12 **Town** West Suffield

Trumbull Christian Heritage School Dan Cote

6060 PS Building a Machine to Test Whether Certain Facemasks Are Protective or Not

Student(s) Maxwell Barbagallo **Grade** 11 **Town** Sandy Hook

Trumbull Christian Heritage School Daniel Cote

6014 PS Renewable Energy: Converting Vibrational Motion

Student(s) Natania Muriel **Grade** 11 **Town** Shelton

Conn. Science & Engineering Fair

Special Award Winners

[SchTown] [School] [Teacher]
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Trumbull Christian Heritage School Dan Cote

6020 PS Design and Fabrication of a Thermoelectric Generator to Charge a Phone Using Simple Fuels for Remote Areas

Student(s) Nathan Nagel

Grade 11 Town Caucasian/White

Uncasville Saint Bernard School Nicole Nelson

6087 PS The Hat and the Mouse: A Practical Hands-Free Method to Control a Personal Computer

Student(s) Payton Noe

Grade 10 Town East Lyme

Wallingford Choate Rosemary Hall Kyle Di Tieri

6063 PS Development of an autonomously driving robot which can remotely scan body temperature to screen for COVID-19

Student(s) Ryan Kim

Grade 10 Town Wallingford

Wallingford Choate Rosemary Hall Jan Cook

3014 LS Combatting Nitrogen Pollution and Eutrophication Using Denitrifying Bioreactors

Student(s) Jessica Wu

Grade 11 Town Wilton

Westport Greens Farms Academy Mathieu Freeman

6026 PS The Effect of pH on Chlorophyll-a Concentration and the Net Primary Productivity of Phytoplankton

Student(s) Lucy Nelson

Grade 12 Town Westport

Westport Greens Farms Academy Mathieu Freeman

6021 PS The Fabrication of a Cost-Effective Paper LIB with Increased Voltage and Longevity

Student(s) Jackson Rassias

Grade 12 Town Fairfield

Windsor Madina Academy Mr. Timothy Coleman

2515 L8 Building and Testing a Simple Portable Constructed Wetland to Purify Greywater

Student(s) Tasneem Zoghol

Grade 8 Town Enfield

Windsor The Loomis Chaffee School Mr. Osei-Mensah

6013 PS Identifying the host galaxies of 2175 A quasar absorbers.

Student(s) Benson Wang

Grade 10 Town San Ramon

Woodbridge Amity Regional High School Catherine Piscitelli

6057 PS Designing a Ground Collision Avoidance System to Inhibit Controlled Flight Into Terrain Accidents For Single Engine Aircraft

Student(s) Mason Beaudette

Grade 11 Town Orange

Woodbridge Amity Regional High School Catherine Piscitelli

6024 PS Development of a Low-Cost, Expandable Boot Aimed to Adjust to Multiple Sizes and Last Multiple Years.

Student(s) Aditi Chalasani

Grade 11 Town Orange

Woodbridge Amity Regional High School Catherine Piscitelli

6025 PS The Manufacture and Performance Evaluation of a Locking Container to Eliminate the Distraction of Phones While Driving

Student(s) Scott Lowder

Grade 11 Town Orange

Woodbridge Amity Regional High School Catherine Piscitelli

6039 PS Creating a Smaller and More Portable Vertical Axis Wind Turbine to Increase Accessibility and Usage of Wind Energy Harvesting Devices

Student(s) Brodey Lu

Grade 11 Town Orange