



# Connecticut Science & Engineering Fair

## Quinnipiac University

March 7 - 19, 2022

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### Final Judging Results

#### Award Legend

Plaque Winners = 1, 2, ...  
 Medalists = m  
 Winners = w

## Environmental Sciences Awards

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

### Middle School

2019 L7 How Ocean Acidification Affects Shelled Marine Life

Award **1** Student(s) **Rhea Doshi** Grade 7 Town Farmington

- \* PepsiCo Life Sciences Awards --- 2nd Place- Life Sciences 7th grade - \$100 & Plaque
- \* Environmental Sciences Awards with CACIWC --- 1st Place MS - \$300 and Plaque
- \* Alexion Biotechnology Awards --- 2nd Place- Biotechnology 7th grade - \$200 & Plaque
- \* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- \* Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF
- \* Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS
- \* TurnKey Compliance Solutions Environmental Awards --- \$200 Cash Award Middle School- For excellence in environmental sciences

5525 P8 Pellet-"O"-Trap: Capturing Plastic Pellets Through a Multi-Filter System & Analyzing Their Progression Using Binary Image Processing

Award **2** Student(s) **Sia Reddy** Grade 8 Town Avon

- \* Lockheed Martin Physical Sciences Awards --- 1st Place - Physical Sciences 8th Grade Ind.- \$300 & Plaque
- \* Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- \* Environmental Sciences Awards with CACIWC --- 2nd Place MS- \$200 and Plaque
- \* Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- \* Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- \* Society of Women Engineers - Hartford Section --- Scientific Calculator
- \* Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

2509 L8 Copper Contamination of Freshwater sources which pollute and harm the ecosystem and its consumers (Phytoremediation)

Award **3** Student(s) **Sophia Vash** Grade 8 Town Fairfield CT

- \* PepsiCo Life Sciences Awards --- 2nd Place- Life Sciences 8th grade - \$200 & Plaque
- \* Petit Family Foundation Women in Science & Engineering Awards --- 1st Place - Middle School \$300 / Plaque
- \* Environmental Sciences Awards with CACIWC --- 3rd Place MS- \$100 and Plaque
- \* Fox Pest Control for Environmental Management --- \$150 Cash for Excellence in Environmental Management
- \* Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS



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4013	PT	Benefit of Granular and Mesh Filters on Concentrations of Microplastics in Water			
Award	m	<b>Student(s)</b> Krrish Brahmshatriya	<b>Grade</b> 8	<b>Town</b> Danbury	
		Benjamin Miller	<b>Grade</b> 8	<b>Town</b> Danbury	
		Alexander Herzegovitch	<b>Grade</b> 8	<b>Town</b> Danbury	

- \* Lockheed Martin Physical Sciences Awards --- 3rd Place - Physical Sciences MS Team - Plaque
- \* CASE • The Jackson Laboratory Urban School Challenge Awards --- Middle School Finalist - Medallion
- \* Environmental Sciences Awards with CACIWC --- MS Finalist - CSF Medallion
- \* Alexion Biotechnology Awards --- 5th Place- Biotechnology 8th grade - Plaque
- \* John S. Kendall Memorial Awards --- \$300 John S. Kendall Award for Excellence In Mechanical Engineering - Middle School

4014	PT	Can You Separate Solids and Liquids Going Down Your Sink			
Award	m	<b>Student(s)</b> Caleb Quinby	<b>Grade</b> 7	<b>Town</b> Windsor	
		Holt Serrano	<b>Grade</b> 7	<b>Town</b> Somers	

- \* Lockheed Martin Physical Sciences Awards --- 2nd Place - Physical Sciences MS Team- \$100 each & Plaque
- \* Environmental Sciences Awards with CACIWC --- MS Finalist - CSF Medallion
- \* Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

4010	PT	Determining the Most Efficient and Effective Method of Filtration for the Purpose of Creating Potable Water			
Award	m	<b>Student(s)</b> Rhys Wilson	<b>Grade</b> 8	<b>Town</b> Somers	
		Oliver Kolb	<b>Grade</b> 8	<b>Town</b> Longmeadow	
		Jacek Cieslak	<b>Grade</b> 8	<b>Town</b> Monson	

- \* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion
- \* Environmental Sciences Awards with CACIWC --- MS Finalist - CSF Medallion
- \* Alexion Biotechnology Awards --- 3rd Place- Biotechnology 8th grade - \$100 & Plaque

### High School

3061	LS	A novel mitigation technique to control the spread of the invasive Spotted Lanternfly (L. Delicatulata) through cardiac glycoside extracts			
Award	1	<b>Student(s)</b> Cooper Carr	<b>Grade</b> 12	<b>Town</b> Fairfield	

- \* Environmental Sciences Awards with CACIWC --- 1st Place HS- \$500 and Plaque
- \* 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 with \$700 stipend
- \* Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a High School Student



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### Environmental Sciences Awards

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6039 PS Eco-Friendly Remediation of Polycyclic Aromatic Hydrocarbons in Stormwater via Magnesium-Infused Calcite Crystal, Supramolecular Hydrogel Scaffolding

Award **2** Student(s) **Audrey Lin** Grade 10 Town Riverside

- \* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* Environmental Sciences Awards with CACIWC --- 2nd Place HS- \$200 and Plaque
- \* Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for HS Environmental, Energy, Ecology, or Biodiversity Project with \$700 stipend

6027 PS Simple Remediation of Heavy Metal and Fertilizer Runoff Water Contaminants via Carbon Nanotube Infused Pinus strobus Xylem Filtration

Award **3** Student(s) **Justin Bernstein** Grade 9 Town Greenwich

- \* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* Environmental Sciences Awards with CACIWC --- 3rd Place HS- \$100 and Plaque
- \* Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* American Meteorological Society --- Certificate & \$25 gift card given by CSEF
- \* National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF
- \* John S. Kendall Memorial Awards --- \$500 John S. Kendall Award for Excellence In Mechanical Engineering - High School

3007 LS Using Prytheruem extract from Chrysanthemum cinerariifolium as a natural insecticide against Grylloidea

Award **m** Student(s) **Albert Capodanno** Grade 12 Town Fairfield

- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion
- \* Susan and Stanley Lessoff Memorial --- Susan and StanleyLessoff Memorial Award - \$250 Cash and Plaque HS

3002 LS Quantifying the interspecific impacts of the native relationships of the Long Island Sound

Award **m** Student(s) **Sarah Davis** Grade 12 Town Trumbull

- \* PepsiCo Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- \* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- \* CASE • The Jackson Laboratory Urban School Challenge Awards --- 2nd Place High School - \$400 and Plaque, Medallion
- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion
- \* Banning Family Life Science Award --- For excellence in invasive species research, \$100 cash
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for HS Environmental, Energy, Ecology, or Biodiversity Project with \$700 stipend



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### Environmental Sciences Awards

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3502 LST Metal-Mediated Electromagnetic Radiation:

Award **m** Student(s) **Collin Eschricht** Grade 11 Town OLD GREENWICH  
**Hunter Spiess** Grade 11 Town Old Greenwich

\* Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion

3507 LST Identification and purification of algal supplements as a means to reduce methane production within ruminants

Award **m** Student(s) **James O'Connor** Grade 10 Town Rye  
**Whip Gorman** Grade 10 Town New Cannan

\* PepsiCo Life Sciences Awards --- 2nd Place- Life Sciences Senior High Team - \$300 (split) & Plaque  
 \* Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion

3512 LST Determining the optimal concentration of nitrogen in fertilizer by examining Wheat samples with NIR spectroscopy.

Award **m** Student(s) **Campbell Officer** Grade 11 Town Greenwich  
**Henry Sorbaro** Grade 11 Town Greenwich

\* PepsiCo Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion  
 \* Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion

6080 PS Remediation of Fire-Foam PFAs from Contaminated Water Using an Eco-Friendly and Reusable Water Filtration System

Award **m** Student(s) **Adam Kleshchelski** Grade 11 Town Cos Cob

\* Lockheed Martin Physical Sciences Awards --- 4th Place - Physical Sciences Senior High Individual - Plaque  
 \* Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion  
 \* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion  
 \* 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, \$30,000 (\$7,500 per year)



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### Environmental Sciences Awards

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 [Proj#] [FCat] [Project Title]

6082 PS Biomimetic Removal of Microspheres Water Contaminants, via Calcite-Infused, Coral-like Melamine Sponges  
 Award m Student(s) Naomi Park Grade 10 Town Riverside

- \* Lockheed Martin Physical Sciences Awards --- 1st Place - Physical Sciences Senior High Individual - \$500 & Plaque
- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion
- \* Collins Aerospace Engineering Awards --- 2nd Place- Engineering Senior High- \$400 & Plaque
- \* H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering --- Physical Sciences 1st HS \$1,000, Solid Silver Medal of Excellence, Invite to CASE Annual Mtg
- \* 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
- \* National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF
- \* Southeastern New England Marine Educators (SENEME) --- \$100 award and membership in SENEME - 1st Place Senior & T-Shirt

6042 PS Controlled Delivery of Sulfoxaflor Pesticide via Cinnamaldehyde-infused Hydrogels to Reduce Toxicity to Honey and Wild Bee Pollinators  
 Award m Student(s) Elizabeth Wallace Grade 11 Town Old Greenwich

- \* Lockheed Martin Physical Sciences Awards --- 3rd Place - Physical Sciences Senior High Individual - \$200 & Plaque
- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion
- \* Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF
- \* The Goodwin-Niering Center for the Environment --- \$100 for "Excellence in Environmental Conservation Studies"

3082 LS Forest Restoration after Wildfire: The Effect of the Addition of Saccharides on Seedling Survival After Replanting in Burnt Soil  
 Award m Student(s) Regina Finn Grade 12 Town Old Greenwich

- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion

3008 LS The Effect of Azospirillum lipoferum on the Microbial Recovery of Corn Soil after a Moderate-Intensity Fire  
 Award m Student(s) Alexandra Hamza Grade 12 Town Manchester

- \* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion



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**Final Judging Results**

**Environmental Sciences Awards**

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

3021 LS Creating a Frequency-Emitting Program to Enhance Mosquito Capture and Surveillance Efforts in Response to the Spread of Mosquito-Borne Diseases

**Award** m **Student(s)** Daniel Liu **Grade** 11 **Town** Woodbridge

- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion
- \* University of Hartford Scholarships --- University of Hartford Scholarship- For Excellence in Science or Mathematics \$30,000 (\$7,500 per year)
- \* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2