



# Connecticut Science & Engineering Fair

## Quinnipiac University

March 6 - 18, 2023

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

### 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

2531 L8 Implementation of Rhizobium Nitrogen-Fixation to Increase Overall Crop Production, and Inhibit

Award 1 Student(s) Hannah Dcruz Grade 8 Town Riverside/Greenwich

\* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 1st Place MS - \$300, Trophy

2518 L8 The Effect of Plant-Based Natural Pesticides on Tenebrio Molitoris.

Award 2 Student(s) Christopher Mladen Grade 8 Town Danbury

\* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Middle School Finalist - Medallion  
 \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 2nd Place MS- \$200, Trophy  
 \* U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF

2509 L8 Investigating The Effectiveness Of Biochar In Remediating Soil Contamination by Heavy Metals and Hydrocarbons.

Award 3 Student(s) Sahithi Aliminate Grade 8 Town Milford

\* Life Science Awards with support from Boehringer Ingelheim --- 5th Place- Life Sciences 8th grade- trophy  
 \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 3rd Place Middle School - \$100 and Trophy, Medallion  
 \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 3rd Place MS- \$100, Trophy  
 \* Alexion Biotechnology Awards --- 4th Place Biotechnology 8th grade- trophy

4001 PT Testing the Absorbency of Different Hydrophobic Fibers with Different Oil Samples

Award m Student(s) Jasmine De Sousa Grade 8 Town Danbury  
 Juliana Watson Grade 8 Town Danbury  
 Ellie Moore Grade 8 Town Danbury

\* Connecticut Science Fair Association Physical Science Awards --- 2nd Place- Physical Sciences MS Team- \$100 each & trophy  
 \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- MS Finalist - CSF Medallion



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### Environmental Sciences Awards

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1006	LT	The effect of caffeine on plants			
<b>Award</b>	<b>m</b>	<b>Student(s)</b>	<b>Grade</b>	<b>Town</b>	
		Keenan Cieslak	Grade 7	Monson	
		Shiv Patel	Grade 7	Longmeadow	
		Beau Dugas	Grade 7	Enfield	

\* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- MS Finalist - CSF Medallion

5507	P8	Demonstrating the Persistence of Long Island Sound Polyaromatic Hydrocarbon (PAH) Contamination			
<b>Award</b>	<b>m</b>	<b>Student(s)</b>	<b>Grade</b>	<b>Town</b>	
		Bridget Hadden	Grade 8	Greenwich	

- \* Connecticut Science Fair Association Physical Science Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & trophy
- \* Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- Middle School- \$200 / trophy
- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- MS Finalist - CSF Medallion
- \* Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- \* Society of Women Engineers - Hartford Section --- Scientific Calculator

1007	LT	How Microplastics Effect Daphnia magna			
<b>Award</b>	<b>m</b>	<b>Student(s)</b>	<b>Grade</b>	<b>Town</b>	
		Zoe Wirgin	Grade 7	Stamford	
		Molly Wirgin	Grade 7	Stamford	

\* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- MS Finalist - CSF Medallion

### High School

6040	PS	Multi Temporal Analysis of Beaver Activity in Connecticut Forests Using Aerial Imagery			
<b>Award</b>	<b>1</b>	<b>Student(s)</b>	<b>Grade</b>	<b>Town</b>	
		Hiruni Witharana	Grade 9	Storrs Mansfield	

- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 1st Place HS - Plaque and \$700 Stipend to Compete at GENIUS Olympiad
- \* The Goodwin-Niering Center for the Environment --- \$100 for "Excellence in Environmental Conservation Studies"
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Environmental Project



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 [Proj#] [FCat] [Project Title]

3018 LS Mytilus edulis ability to control harmful algae blooms from nitrogen rich fertilizer and phosphorus rich fertilizer.  
 Award 2 Student(s) Madeleine Hatfield Grade 12 Town Mystic

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- High School \$500 / plaque
- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 2nd Place HS- \$300, Plaque
- \* Aquarion Water Company --- 2nd. \$100.00 Cash - Grade 9-12 For Excellence in Water Quality or Environmental Management

3513 LST Determining the relationship between sound frequencies and settlement rates in pediveliger oyster larvae to develop oyster-recruitment methods for the restoration of oyster reefs  
 Award 3 Student(s) Sebastian DeAngelis Grade 11 Town Darien  
 John Morningstar Grade 11 Town Greenwich

- \* Life Science Awards with support from Boehringer Ingelheim --- 2nd Place- Life Sciences Senior High Team- \$300 (split) & Plaque
- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 3rd Place HS- \$200, Plaque
- \* Connecticut Academy of Audiology --- \$200 Award - For Excellence in Audiology and Acoustics, oport. to shadow an audiologist

3501 LST Utilizing eDNA and DNA barcoding to establish a Green Crab Census in the Long Island Sound  
 Award m Student(s) Connor Choy Grade 11 Town Greenwich  
 Casey Quinson Grade 11 Town Port Chester

- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion

3516 LST The effects of cable bacteria on reducing methane production in microbial methanogen populations  
 Award m Student(s) Jack Degl Grade 10 Town Mahopac  
 Henry Johnson Grade 10 Town Greenwich

- \* Life Science Awards with support from Boehringer Ingelheim --- 1st Place- Life Sciences Senior High Team- \$500 (split) & Plaque
- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion
- \* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF

6059 PS A Comparative Analysis of the Longevity of Biochar Filters in Removing Agricultural Pollutants from Wastewater.  
 Award m Student(s) Luke Dougherty Grade 11 Town Bronxville

- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion



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### Environmental Sciences Awards

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3519 LST The effects of Light Pollution on the growth and health of stone corals Montipora Capricornia and Oxypora Coral.  
 Award m Student(s) Grayson O'Hara Tucker Spiess Grade 10 Town Rye Old Greenwich

- \* Life Science Awards with support from Boehringer Ingelheim --- 3rd Place - Life Sciences Senior High Team - Plaque
- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion
- \* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion
- \* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF

3079 LS Footprint Reduction of PET Fiber Waste in Refuse-Environments via Non-Toxic Ideonella Sakaiensis Degradation  
 Award m Student(s) Lucy Li Grade 11 Town Greenwich

- \* Life Science Awards with support from Boehringer Ingelheim --- 4th Place- Life Sciences Senior High- Plaque
- \* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion

3056 LS In-situ Biodegradation of Landfill Styrofoam Waste by Zophobas Morio via an Innovative, Compounded Diet  
 Award m Student(s) Colin Reynolds Grade 9 Town Old Greenwich

- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion

6022 PS Use of Cryptomelane-Type Manganese Oxide Free Standing Membranes for Removal of Oil Contaminants in Water.  
 Award m Student(s) Ryan Wadhwa Grade 9 Town Greenwich

- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion
- \* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion
- \* U.S. Air Force --- Certificate & USAF Merchandise Package

3016 LS Investigating the Usage of Treated Nano-Clay Composites for the Efficient Removal of Emerging Contaminants in an Aqueous Solution  
 Award m Student(s) Snigtha Mohanraj Grade 10 Town Ansonia

- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 4th Place High School - Plaque, Medallion
- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion
- \* Aquarion Water Company --- 1st, \$150.00 Cash - Grade 9-12 For Excellence in Water Quality or Environmental Management
- \* The Community Foundation for Greater New Haven Ecology, Environmental, and Alternative Energy Research Prize --- Urban Public School Environmental / Energy Award - \$500



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**Final Judging Results**

**Environmental Sciences Awards**

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

3007 LS Development of Buoyant, Lignin-Based Fulvic Acid Supply Device (FASD) to Prevent Ocean Desertification  
 Award m Student(s) Yoon Ha Lee Grade 11 Town Seoul

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion
- \* U.S. Metric Association --- Certificate & \$25 gift card given by CSEF
- \* Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition
- \* Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF