



Connecticut Science & Engineering Fair

Quinnipiac University

March 8 - 20, 2021

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

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

Middle School

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

Award 1 Student(s) Snigtha Mohanraj Grade 8 Town Ansonia

- * Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & plaque, invitation to compete in Broadcom Masters
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- 1st Place Middle School - \$300 and plaque, Medallion
- * Stanley Black & Decker Applied Technology Awards --- 1st Place Middle School - \$300 and Plaque, Medallion
- * Environmental Sciences Awards with CACIWC --- 1st Place MS - \$300, plaque
- * Future Sustainability Awards --- 3rd Place Middle School - \$100 Cash and plaque
- * Connecticut Academy of Science and Engineering Middle School Urban School Challenge Award --- Urban School Challenge 1st MS- \$250 Cash Award, Invite to attend CASE's Annual Meeting
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * 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

2510 L8 COVID-19's Impact on Water Quality in Recreational Areas Along the Long Island Sound Coastline

Award 2 Student(s) Isabella D'Agostino Grade 8 Town New Brittan

- * PepsiCo / Pfizer Life Sciences Awards --- 5th Place- Life Sciences 8th grade- plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- Middle School \$300 / plaque
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- Middle School Finalist - Medallion
- * Environmental Sciences Awards with CACIWC --- 2nd Place MS- \$200, plaque
- * 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

2517 L8 Microplastic Concentration in Four Harbor Locations in Fairfield County, CT

Award 3 Student(s) Sofia Atehortua Grade 8 Town Bridgeport

- * PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- 5th Place Middle School - plaque, Medallion
- * Environmental Sciences Awards with CACIWC --- 3rd Place MS- \$100, plaque
- * 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



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Environmental Sciences Awards with CACIWC

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4002	PT	The Benefits of Debris Deflectors on Preventing Debris Buildup in Culverts
Award	m	Student(s) David Thomas Grade 8 Town Danbury
		Cody Zhu Grade 8 Town Danbury

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CSF Medallion
- * Future Sustainability Awards --- Middle School Finalist - Medallion
- * Collins Aerospace Engineering Awards --- 2nd Place- Engineering MS- \$200 & plaque
- * Lemelson Early Inventor Award --- Certificate & \$100 cash award from Lemelson Foundation

2516	L8	The impacts of the presence of Canada Geese (Branta Canadensis) on the water quality in local ponds and lakes.
Award	m	Student(s) Eva Quijada Grade 8 Town Middletown

- * CASE • The Jackson Laboratory Urban School Challenge Awards --- Middle School Finalist - Medallion
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CSF Medallion

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

- * Environmental Sciences Awards with CACIWC --- MS Finalist - CSF Medallion
- * Future Sustainability Awards --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Life Science

High School

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

- * PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- 1st Place HS- Plaque & \$800 Stipend to Compete at GENIUS Olympiad
- * Future Sustainability Awards --- High School Finalist - Medallion
- * 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



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3078 LS Using Deep Learning to Efficiently Quantify the Impact of Road Salt Runoff on the Swim Performance of Wood Frog Tadpoles

Award 2 Student(s) Mason Zhang Grade 12 Town Woodbridge

- * PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- 2nd Place HS- \$200, Plaque

3506 LST Density of Microplastics: An investigation to determine concentration in the dorsal tissue of Morone saxatilis

Award 3 Student(s) Tomas Delgado Grade 10 Town Riverside
 Jackson Wolfram Grade 10 Town Riverside

- * Environmental Sciences Awards with CACIWC --- 3rd Place HS- \$100, Plaque

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

Award m Student(s) Sienna Matregrano Grade 12 Town Fairfield

- * CASE • The Jackson Laboratory Urban School Challenge Awards --- 3rd Place High School - \$ 300 and Plaque, Medallion
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * GENIUS Olympiad --- GENIUS Olympiad Competition for HS Environmental, Energy, Ecology, or Biodiversity Project

3046 LS Ocean Acidification: How it effects population growth in the phytoplankton species Nannochloropsis oculata

Award m Student(s) Arabella Hatfield Grade 12 Town Groton, CT

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

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

Award m Student(s) Autumn Kim Grade 12 Town Greenwich

- * Lockheed Martin Physical Sciences Awards --- 1st Place - Physical Sciences Senior High Individual - \$500 & Plaque
- * Stanley Black & Decker Applied Technology Awards --- 3rd Place High School - \$ 200 and Plaque, Medallion
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion
- * Future Sustainability Awards --- High School Finalist - Medallion
- * 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
- * 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"



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3043 LS The Effect of Applied Glucose on Moisture Retention and Growth of Saplings After Simulated Forest Fires.
 Award m Student(s) Regina Finn Grade 11 Town Old Greenwich

- * PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

6511 PST Analyzing the Ability of the SCiO Spectrometer to Detect the Presence of Nutrients in Soil
 Award m Student(s) Megan Dunphy Grade 12 Town Ridgefield
 Kelsi Wilkenloh Grade 12 Town Ridgefield

- * Lockheed Martin Physical Sciences Awards --- 3rd Place - Physical Sciences Senior High Team - Plaque
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion
- * Future Sustainability Awards --- High School Finalist - Medallion

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

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CSF 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 Science or Mathematics \$27,000

6096 PS Exploring the Rate of Photodegradation of Different Microplastics
 Award m Student(s) Hannah MacDonald Grade 12 Town Stamford

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