

# Connecticut Science & Engineering Fair

## Quinnipiac University

March 3 - 15, 2025

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### Final Judging Results

## Environmental Sciences Awards

#### Award Legend

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

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

### Middle School

**Greenwich** Eastern Middle School Andrew Bramante

2506 L8 Fabrication of a Biodegradable, Nutrient-Rich, Orange Peel-Loaded Hydrogel for Thermally-Programmed Release of Water to Maintain Soil Moisture

**Award** 1 **Student(s)** Rajsi Choudhary **Grade** 8 **Town** Greenwich

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 1st Place- Life Sciences 8th grade- \$200 & trophy
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- 1st Place MS - \$200, Trophy
- \* Pepsico Engineering Awards --- 2nd Place- Engineering MS- \$150 & trophy
- \* Quinnipiac University Scholarships --- \$30,000, 4 year scholarship (\$7500 per year) to Quinnipiac U. - MS Student in Engineering
- \* Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Life Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- \* Alexion Biotechnology Awards --- 3rd Place Biotechnology 8th grade - \$100 & trophy
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

**Avon** Talcott Mountain Academy Brigette Zacharczenko

2513 L8 Pupation Behaviors in Manduca sexta: Substrate Choices and Pupation Success

**Award** 2 **Student(s)** Arya Samat **Grade** 8 **Town** Avon

- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- 2nd Place MS- \$150, Trophy

**Greenwich** Greenwich Academy Katie Hertzmark

1001 LT Microplastics in Oysters

**Award** 3 **Student(s)** Addison Garner **Grade** 7 **Town** Greenwich  
Arabella Miller **Grade** 7 **Town** Greenwich

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 2nd Place- Life Sciences MS Team- \$100 split & trophies
- \* Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- Middle School \$200 / trophy
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- 3rd Place MS- \$100, Trophy

**Bethany** Amity Middle School Bethany Keith Smolinski

4024 PT Novel Xylem Water Filter Spigot For Reusable, Universal 5-Gallon Water Jug

**Award** m **Student(s)** Alexie Petrov **Grade** 8 **Town** Woodbridge  
Arshya Senajani **Grade** 8 **Town** Woodbridge

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Jr Team - CSF Medallions
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- MS Finalist - CSF Medallion



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## Environmental Sciences Awards

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**Bozrah** Fields Memorial School O Joshua fish

1025 LT A study of the efficiency of ice melt substances and their environmental impact on roadside vegetation

Award m

**Student(s)** Analise Williams  
Ella Sikorski

**Grade 7** **Town** bozrah  
**Grade 7** **Town** Bozrah

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Sciences Middle School Team - CSF Medallion
- \* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- MS Finalist - CSF Medallion
- \* Alexion Biotechnology Awards --- 5th Place Biotechnology 7th grade - trophy
- \* Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- \* American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 7-8 project
- \* Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash

**Greenwich** Central Middle School Andrew Bramante

5504 P8 Highlighting the Prevalence of Microplastics at Tod's Point Through Waste Water and Ocean Currents Using Scanning Electron Microscopy Analysis

Award m

**Student(s)** Carter Henske

**Grade 8** **Town** Greenwich

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- MS Finalist - CSF Medallion
- \* Southeastern New England Marine Educators (SENEME) --- \$100 award and membership for student and teacher in SENEME - 1st Place Junior

**Greenwich** Eastern Middle School Andrew Bramante

5501 P8 Evaluating the Toxicity of Eco-Friendly versus Conventional Laundry Detergent Water Runoff via Analysis of Eisenia Fetida Mortality Rates

Award m

**Student(s)** Zain Haque

**Grade 8** **Town** Riverside

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- MS Finalist - CSF Medallion

**Greenwich** Sacred Heart Greenwich Mary Musolino

4009 PT Advanced Water Purification using Activated Charcoal and Biochar

Award m

**Student(s)** Eliana Antenucci  
Mackenzie Malouin

**Grade 8** **Town** SCARSDALE  
**Grade 8** **Town** Rye

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Jr Team - CSF Medallions
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- MS Finalist - CSF Medallion



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**Greenwich** Sacred Heart Greenwich Mary Musolino Musolino

4020 PT Using Clay Flocculation to Reduce Harmful Algae Blooms in a Body of Water

Award m

Student(s) Vivienne Vanderwilt

Grade 8 Town Greenwich

Nora Mulcahy

Grade 8 Town RYE

Ariel Almonacy

Grade 8 Town Greenwich

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Jr Team - CSF Medallions
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- MS Finalist - CSF Medallion
- \* Yale Peabody Museum --- In-person Behind the Scenes Tour of the Museum plus guardian. Winner must be >12 years old.

**Stamford** Bi-Cultural Hebrew Academy Chris Graseck

2009 L7 The Effects of Dish Soap on Plants

Award m

Student(s) Caleb Moreen

Grade 7 Town Stamford

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 3rd Place- Life Sciences 7th grade- \$100 & trophy
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- MS Finalist - CSF Medallion

**Southington** Southington High School Ismail Agirman

3060 LS Mitigation of Cyclohexane Concentrations in Drinking Water using photosynthetic molecule Chlorophyll

Award 1

Student(s) Esra Agirman

Grade 9 Town Southington

- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- 1st Place HS- \$300, Plaque and Stipend to Compete at GENIUS Olympiad
- \* U.S. Metric Association --- Certificate & \$25 gift card given by CSEF
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Environmental Project

**South Windsor** South Windsor High School Danel Eitel

6094 PS In-Situ Acetylene-Based Nitrogen Inhibitor To Reduce Soil-N loss in Cereal Crops

Award 2

Student(s) Sanjay Rajan

Grade 10 Town South Windsor

- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- 2nd Place HS- \$200, Plaque

**Greenwich** Brunswick School Dana Montanez

6502 PST Novel use of Beeswax as an Sustainable Medium to Improve the Efficiency and Scalability of Super-Hydrophobic Sponges in Cleaning up Oceanic Oil Spills

Award 3

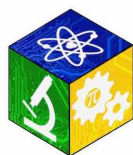
Student(s) George Kapp

Grade 11 Town Greenwich

Max Lanson

Grade 11 Town New Canaan

- \* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 1st Place- Physical Sciences Senior High Team- \$300 (split) & Plaques
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- 3rd Place HS- \$100, Plaque



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**Bethel** Bethel High School Raymond Turek

3084 LS Microplastic Influence on Microbial Strength Against Disinfection

**Award** m **Student(s)** Shravya Mankala **Grade** 10 **Town** Bethel

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion

**Greenwich** Greenwich High School Andrew Bramante

6041 PS Design of a Biometric Trap for Spotted Lanternflies, Using Scent-Profiles of Ailanthus altissima

**Award** m **Student(s)** Rex Lu **Grade** 11 **Town** Greenwich

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

**Milford** Platt Technical High School Sara Bruno

6516 PST Green Growth Academy

**Award** m **Student(s)** Danyalis Perez-Cumba **Grade** 11 **Town** North Haven  
Maureen Freire-Trejo **Grade** 11 **Town** Bridgeport  
Karen Plazas **Grade** 11 **Town** Bridgeport

- \* EnergizeCT Technical High School Science & Technology Awards --- Technical High School Finalist - medallion
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion
- \* CT Architecture Foundation - The William M. Mack, AIA Awards --- \$250 Amazon Gift Card from the Connecticut Architecture Foundation, William M. Mack, AIA Award for Innovation in Building Sustainability.
- \* Alumni Botany Awards --- Alumni High School Botany Award- \$150 Cash

**Norwich** Norwich Technical High School Aleatha Pelloni

3515 LST eDNA Testing for Invasive Species

**Award** m **Student(s)** Jarelis Acevedo **Grade** 11 **Town** Norwich  
Nora Van Haitsma **Grade** 11 **Town** Norwich

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High Team - CSF Medallion
- \* EnergizeCT Technical High School Science & Technology Awards --- 2nd Place- Technical High School, \$200, Plaque
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion



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**Norwich** Norwich Technical High School Aleatha Pelloni

3012 LS Proving Microplastics Transfer from Water to Living Organisms Through Vegetation

**Award** m **Student(s)** Solibella Davis **Grade** 11 **Town** New London

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- \* EnergizeCT Technical High School Science & Technology Awards --- 1st Place- Technical High School, \$300, Plaque & Stipend to Compete at GENIUS Olympiad
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- 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, Grade 11 only - \$30,000 (\$7,500/year)
- \* RNP Regenerative Medicine Excellence Awards --- \$250 - Excellence in Translational Medicine
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place Technical High School

**Trumbull** Trumbull Agriscience & Biotechnology Center Kevin Boken

3502 LST Symbiotic Synthesis: Exploring the Co-Culture of Spirulina and Bacillus subtilis for Enhanced CO<sub>2</sub> Absorption

**Award** m **Student(s)** Autumn Settembre **Grade** 9 **Town** Trumbull  
Johnathon Lin **Grade** 9 **Town** Bridgeport

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High Team - CSF Medallion
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion

**Windsor** The Loomis Chaffee School Koby Osei-Mensah

3130 LS Bioremediation of PFAS: Integrating Oyster Shell Waste from Connecticut's Oyster Trail

**Award** m **Student(s)** Hyeonho Kim **Grade** 9 **Town** Windsor

- \* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion
- \* Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition

**Woodbridge** Amity Regional High School Nicholas Shamp

3147 LS Determining the Effects of Wood Density on the Survival, Growth, Development, and Adult Emergence of Anoplophora glabripennis

**Award** m **Student(s)** Sabrina Osowiecki **Grade** 12 **Town** Orange

- \* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- \* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion