



Connecticut Science & Engineering Fair

Quinnipiac University

March 4 - 16, 2024

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

Wilton Middlebrook School William Desroches

1017 LT BEAT THE PEAT - RICE HUSK, THE SUSTAINABLE AND ECO-FRIENDLY ALTERNATIVE TO PEAT MOSS

Award 1 **Student(s)** Kabir Rokkam **Grade 7** **Town** WILTON
 Shushruth Balaji **Grade 7** **Town** Wilton

- * Life Science Awards with support from Boehringer Ingelheim --- 1st Place- Life Sciences MS Team- \$150 each & trophy
- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 1st Place MS - \$300, Trophy
- * Alexion Biotechnology Awards --- 2nd Place Biotechnology 7th grade - \$200 & 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 Brigitte Zacharczenko

2502 L8 Reducing the Waste of Polyethylene Plastic by Galleria mellonella

Award 2 **Student(s)** Yveson Hsiao **Grade 8** **Town** Farmington

- * Life Science Awards with support from Boehringer Ingelheim --- 3rd Place- Life Sciences 8th grade- \$100 & trophy
- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 2nd Place MS- \$200, Trophy

Danbury Westside Middle School Academy Nancy Barlow

4012 PT Building a Versatile Air Sensor That Can Detect PM10 & PM2.5 in the Air

Award 3 **Student(s)** Sarvesh Ram Sankarnarayan **Grade 8** **Town** Danbury
 Gabrielle Anderson **Grade 8** **Town** Danbury
 Eleftherios Amperidis **Grade 8** **Town** Danbury, Ct

- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 2nd Place Middle School - \$200 and Trophy, Medallion
- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 3rd Place MS- \$100, Trophy
- * ISA - International Society for Automation - Ct. Valley Section --- 2nd - \$75 award
- * The Community Foundation for Greater New Haven Ecology, Environmental, and Alternative Energy Research Prize --- Urban Public School Environmental / Energy Award - \$250
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2024 Invention Convention, June 8

Enfield Chiaravalle Academy Tim Coleman

1006 LT Plants vs. Wildfires

Award m **Student(s)** Megan Quinby **Grade 7** **Town** Windsor
 Arianna Plaz **Grade 7** **Town** Suffield
 Antonina Borodii **Grade 7** **Town** Enfield

- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- MS Finalist - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7th grade - CSF Medallion



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Greenwich Central Middle School Andrew Bramante

2507 L8 Modeling of Fairfield County Fresh-water and Estuary Waterways, to Highlight Contamination of their Ecosystems/Environments

Award m Student(s) Briar Lissauer Grade 8 Town Greenwich

- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- MS Finalist - CSF Medallion
- * EnergizeCT Future Sustainability Awards --- 3rd Place Middle School - \$100 Cash and Trophy
- * Southeastern New England Marine Educators (SENEME) --- \$100 award and membership for student and teacher in SENEME - 1st Place Junior

New Haven Worthington Hooker School Douglas Jones

1020 LT Biodegradable Hydrogels: Improving our Agriculture's Sustainability

Award m Student(s) Sofia Janiga Grade 8 Town New Haven
 Azalea Deener Grade 8 Town New Haven

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences Middle School Team - CSF Medallion
- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- MS Finalist - CSF Medallion
- * NYUC Pony Club Equine or Animal Science Award --- \$100 Cash Award for excellence in equine studies

Southington Joseph A. Depaolo Middle School Halime Agirman

2514 L8 Global Warming Management through Utilization of naturally occurring resources such as Eggshell-Derived Calcium Carbonate in Global Warming Reduction

Award m Student(s) Esra Agirman Grade 8 Town Southington

- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- MS Finalist - CSF Medallion
- * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- * Talcott Mountain Science Center & Academy --- TMSC Founder's Award - Middle School Life Science - Scholarship to one Summer or Saturday Program at TMSC - Value \$435
- * National Center for Inquiry Learning --- Daniel & Maggie Award for Imagination - MS \$100

High School

South Windsor South Windsor High School Danel Eitel

3524 LST MushBox: In Situ Biodegradation of Municipal Solid Waste through Mycoremediation via Mycelium and Cellulosic Waste Integration

Award 1 Student(s) Samarth Basanth Grade 10 Town South Windsor
 Tejbir Litt Grade 10 Town South Windsor

- * 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 --- 1st Place HS- Plaque and \$700 Stipend to Compete at GENIUS Olympiad
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Environmental Project



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Greenwich Greenwich High School Andrew Bramante

3025 LS Sonic Repulsion of Purple Sea Urchins to Reduce Degradation of Nascent Nereocystis luetkeana Forests

Award 2 Student(s) Owen Benison Grade 11 Town riverside

- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 2nd Place HS- \$300, Plaque
- * Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt & cap (swag), First Place 8, 9, 10 grader
- * GENIUS Olympiad --- GENIUS Olympiad Competition for HS Environmental, Energy, Ecology, or Biodiversity Project
- * University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$96,000 (\$24,000 per year) for exemplary 11th grade project

Woodbridge Amity Regional High School Catherine Piscitelli

6503 PST Development of a Novel Spray Mechanism Using Real-Time Bee Auditory Data to Trigger an Entomopathogenic Fungal Miticide in Beehives to Control Varroa Destructor Infestations

Award 3 Student(s) Sophia Messina Grade 11 Town Woodbridge
 Nikhil Petrov Grade 11 Town Woodbridge

- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 3rd Place HS- \$200, Plaque
- * University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Engineering or Technology, Grade 11 only - \$30,000 (\$7,500/year)

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

6065 PS Ferric Modified Bamboo Biochar as a Passive Lead (Pb) Remediation Tool in Contaminated Coastal Wetland Sediment

Award m Student(s) Keller Hall Grade 12 Town Monroe

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

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3134 LS Acoustic Noise Pollution Affecting Reproduction, Communication, and Behavior of Brine Shrimp

Award m Student(s) Anne Taylor Grade 12 Town Fairfield

- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * 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
- * Bushnell Center for Performing Arts --- Pair of Tickets to Illuminate Dance - for top project involving technology and lights for Arts Applications, if possible

Greenwich Brunswick School Dana Montanez

6003 PS Removal of Aquatic Micro Pollutants Using Functionalized Nanoparticles of Iron-Oxide

Award m Student(s) Jack Degl Grade 11 Town Mahopac

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



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Greenwich Brunswick School Dana Montanez

3513 LST The Impact of Ocean Acidification on Photosynthetic Rates of Rhodomonas salina and Amphidinium

Award **m** Student(s) **Eric Lorenz** Grade 11 Town Greenwich
Ryan Ahn Grade 11 Town White Plains

- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion
- * EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion

Greenwich Greenwich High School Andrew Bramante

6081 PS Genetic Engineering of Cryobacterium to Increase Silica Content and Enhance the Glacial Albedo of Black Arctic Oceans

Award **m** Student(s) **Justin Bernstein** Grade 11 Town Greenwich

- * 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

Newtown Newtown High School Timothy DeJulio

6088 PS The Effect of Road Usage Frequency on the Quality of Soil

Award **m** Student(s) **Nathan Twitchell** Grade 11 Town Newtown

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

Westport Staples High School Amy Parent

3136 LS Impact of organic fertilizers on soil microbial activity and carbon sequestration in baby lettuce

Award **m** Student(s) **Tessa Cassell** Grade 12 Town Westport

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

Wilton Wilton High School Matthew Hoyt

3059 LS A Novel AI-Driven Approach for Tracking and Managing Invasive Plant Species

Award **m** Student(s) **Shriya Natarajan** Grade 10 Town Wilton

- * Life Science Awards with support from Boehringer Ingelheim --- 3rd Place- Life Sciences Senior High- \$200 & Plaque
- * Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion
- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion
- * Banning Family Life Science Award --- For excellence in invasive species research, \$100 cash