



Connecticut Science & Engineering Fair

Quinnipiac University

March 11 - 16, 2019

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

Final Judging Results

Future Sustainability Awards

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

Award Legend
Trophy Winners = 1, 2, ...
Medalists = m
Winners = w

Middle School

5025 P7 Recovering Energy From an A/C Unit Condenser Exhaust Fan

Award 1 Student(s) Elle Okoney Grade 7 Town Bozrah

- * Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences 7th Grade Ind. - trophy and Invitation
Compete in Broadcom MASTERS
- * Applied Technology Awards --- Middle School Finalist - Medallion
- * Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
- * Future Sustainability Awards --- 1st Place Middle School - \$300 Cash and Trophy
- * Collins Aerospace Engineering Awards --- 1st Place- Engineering Middle School- \$400 & trophy and Invitation
Compete in Broadcom MASTERS
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate
- * National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF
- * The Children's Museum --- 1 family 4-Pack of Admission Passes to the Children's Museum
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related

2528 L8 Purifying Grey Water Using a Constructed Wetland

Award 2 Student(s) Nell Grant Grade 8 Town Woodbridge

- * Environmental Sciences Awards with CACIWC --- 1st Place MS - \$300, Trophy, CACIWC gifts
- * Future Sustainability Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology 8th grade- trophy
- * Southeastern New England Marine Educators (SENEME) --- \$100 award and membership in SENEME - 1st Place Junior & T-Shirt
- * The Karen J. Howell Middle School Award for "Learning and Serving"
--- The Karen J. Howell Middle School Award for "Learning and Serving" - \$1000

2515 L8 The Bubble

Award 3 Student(s) Leo Southam Grade 8 Town Shelton

- * Future Sustainability Awards --- 3rd Place Middle School - \$100 Cash and Trophy
- * Fuss & O'Neill, Inc. --- \$200 Award for Excellence in Environmental Sciences

5524 P8 Wind Turbine Tree

Award m Student(s) Mingyue Zha Grade 8 Town Woodbridge

- * Alternative/Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy
- * Future Sustainability Awards --- Middle School Finalist - Medallion
- * Constellation, an Exelon Company --- 2nd: \$50.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
- * Connecticut Association for the Gifted --- Leonardo Davinci 7-8 Grade \$50 Gift Certificate



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2023 L7 The Effect of Collector Quantity on Solar Heating

Award m Student(s) David Mitchell Grade 7 Town New Milford

* Future Sustainability Awards --- Middle School Finalist - Medallion

2503 L8 The Effects of Oil on the Removal of Microplastics From Water

Award m Student(s) Aiden Doolabh Grade 8 Town Danbury

* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
 * Future Sustainability Awards --- Middle School Finalist - Medallion
 * Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum

5010 P7 Green Insulation?

Award m Student(s) Tyler Fahey Grade 7 Town Danbury

* Future Sustainability Awards --- Middle School Finalist - Medallion

1006 LT Fire For Farming

Award m Student(s) Joseph Halas Grade 7 Town Danbury
 Patrick Heslin Grade 7 Town New Milford
 Ryan Devin Grade 7 Town Brookfield

* The Jackson Laboratory Life Sciences Awards --- 3rd Place- Life Sciences MS Team- trophy and Invite to Compete Broadcom MASTERS
 * Future Sustainability Awards --- Middle School Finalist - Medallion

1023 LT Breathe Better

Award m Student(s) William Carragher Grade 7 Town Stamford
 Joseph Pizzurro Grade 7 Town Stamford
 Ryan McIntire Grade 7 Town Darien

* The Jackson Laboratory Life Sciences Awards --- 1st Place- Life Sciences MS Team- \$100 each & trophy and Invite to Compete Broadcom MASTERS
 * Future Sustainability Awards --- Middle School Finalist - Medallion
 * Alexion Biotechnology Awards --- 1st Place- Biotechnology 7th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS



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4004 PT Using copper instead of stainless steel to build an hho generator to prevent the production of toxic chromium ions.
 Award m Student(s) **abdulmalik ajdinoski** Grade 8 Town windsor locks
Ahmad Zoghol Grade 8 Town Enfield

* Future Sustainability Awards --- Middle School Finalist - Medallion

High School

6074 PS Sorption of Hydrogen Sulfide Contaminates Through Methyl Diethanolamine Doped Ceramic Beads Coupled With a Piperazine Catalyst
 Award 1 Student(s) **Erica Carpenter** Grade 12 Town Trumbull

- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 3rd Place High School - \$ 300 and Plaque, Medallion
- * Future Sustainability Awards --- 1st Place High School - \$500 Cash, Plaque
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Future Sustainability
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Sustainability

6047 PS A Green Nanotechnological Approach for Energy Efficiency and Conservation: Tungsten-doped Vanadium Dioxide Thermo-chromic Smart Windows
 Award 2 Student(s) **Cynthia Chen** Grade 11 Town Riverside

- * Lockheed Martin Physical Sciences Awards --- 1st Place - Physical Sciences Senior High Individual - \$500 & Plaque
- * Future Sustainability Awards --- 2nd Place High School - \$300 Cash and Plaque
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering in partnership with CCAT --- Physical Sciences 1st HS \$1,000, Solid Silver Medal of Excellence, Invite to CASE Annual Mtg

3024 LS Application of Cyanobacteria Anthrospira Platensis as a Polyfiber Biopaper
 Award 3 Student(s) **Tyler Greene** Grade 12 Town Manchester

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * Future Sustainability Awards --- 3rd Place High School - \$200 Cash and Plaque
- * ASM Materials Education Foundation --- Certificate & \$25 gift card given by CSEF
- * Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre



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3053 LS A Rapid, Solar-Powered, Portable Breast Cancer Diagnosis via Salivary CA15-3 Detection.

Award **m** Student(s) **Halla Clausi** Grade 10 Town Cos Cob

- * The Jackson Laboratory Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Future Sustainability Awards --- High School Finalist - Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology Senior High- \$200 & plaque

6089 PS Single-Use, Insulative Tableware Made from Cornstarch and a Hydrophobic Edible Thin Film, as a Biodegradable Replacement for Styrofoam

Award **m** Student(s) **Tyler Fox** Grade 11 Town Cos Cob

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Applied Technology Awards --- Senior High Finalist - Medallion
- * Future Sustainability Awards --- High School Finalist - Medallion
- * Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash
- * Connecticut Science Supervisors Association --- \$125 for a high school project
- * Robotics And Beyond --- HS- For Excellence in Material Science- \$200 for Robotics And Beyond STEM Design Camp or Academy

6017 PS Development of Highly-Efficient, Earth-Abundant Crystalline Perovskite - Carbon Film Solar Cells

Award **m** Student(s) **Anne-Emilie Rouffiac** Grade 11 Town Greenwich

- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Future Sustainability Awards --- High School Finalist - Medallion
- * POWER Engineers --- \$200 for " Excellence in Electrical Engineering- emphasis on Power Electronics" - High School
- * Jon Stone Memorial Award --- \$100 cash for Innovative Engineering

6036 PS Portable, Simple Filtration of (Modeled) V. cholerae Infected Water using Electrified, Silver-SWCNT Nanostructures within a Sari-Cloth Textile

Award **m** Student(s) **Shun Sakai** Grade 11 Town Greenwich

- * Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences Senior High Individual - Plaque
- * Future Sustainability Awards --- High School Finalist - Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition



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3021 LS The Efficiency Of Copper Removal Using Phytoremediation Techniques

Award **m** Student(s) **Skyler Hatter** Grade 10 Town GROTON

- * The Jackson Laboratory Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * Future Sustainability Awards --- High School Finalist - Medallion
- * University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Life Sciences - Co-Op \$100 Gift Certificate

3032 LS The effect of inoculating Rhizobium bacteria into Helianthus annuus L. to increase drought tolerance.

Award **m** Student(s) **Kathryn Liu** Grade 11 Town Easton

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * Future Sustainability Awards --- High School Finalist - Medallion

6073 PS Enhanced Photocatalytic Activity of Carbon Dots Grafted TiO2 Nanorods

Award **m** Student(s) **Shimin Cai** Grade 11 Town wellesley

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Future Sustainability Awards --- High School Finalist - Medallion