



Connecticut Science & Engineering Fair

Quinnipiac University

March 9 - 14, 2020

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

Final Judging Results

United Technologies Corporation Awards

Award Legend

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

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

5513 P8 Producing Renewable Energy With Rainwater Gutter Systems Using Micro Hydro-Turbines
Award Student(s) Elle Okoney Grade 8 Town BOZRAH

- * Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences 8th Grade Ind. - trophy and Invitation Compete in Broadcom MASTERS
- * Applied Technology Awards --- 2nd Place Middle School - \$200 and Trophy, Medallion
- * Alternative/Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy
- * Collins Aerospace Engineering Awards --- 2nd Place- Engineering MS- \$200 & trophy and Invitation Compete in Broadcom MASTERS
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * CT Architecture Foundation - The William M. Mack, AIA Award --- \$250 Gift Certificate to Barnes and Noble from the Connecticut Architecture Foundation, William M. Mack, AIA Award.
- * IEEE, Connecticut Section --- \$250 Honors Award -Junior
- * J.A. Augustine Award --- \$100 for excellence in physical sciences
- * Kathleen & David Smith Awards --- Kathleen & David Smith Award for Innovative Concept - \$100
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

5526 P8 Harvesting Energy From Rainwater With An Archimedean Screw.
Award Student(s) Ronak Ramesh Grade 8 Town Middletown

- * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- 5th Place Middle School - Trophy, Medallion
- * Alternative/Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * Constellation, an Exelon Company --- 1st: \$100.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
- * Connecticut Science Supervisors Association --- \$125 for a middle school project
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

6026 PS Decoding Algorithms for Correction of X-Z and Spacially Correlated Errors in Topological Quantum Computing
Award Student(s) Sam Florin Grade 11 Town Greenwich

- * Computer Science Awards --- Senior High Finalist - Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificat

6048 PS Augmented Reality Chemistry
Award Student(s) Ethan Feldman Grade 12 Town Milford

- * Computer Science Awards --- 3rd Place High School- \$200, Plaque
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report



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6049 PS Subtractive Manufacturing Techniques for Preparing Inexpensive Thermoplastic Microlens Arrays
Award Student(s) **Andrea Lacunza** Grade 12 Town Avon

- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report

6059 PS Scale-up of Water-Splitting Hydrogen Production Using Piezo-Electrochemical Nanostructures and Ambient Processes
Award Student(s) **Zachary Mester** Grade 12 Town Cos Cob

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Applied Principles Award - \$100

6060 PS The Effect of Axial Tilt of Hyperboloidal Gears on Mechanical Efficiency
Award Student(s) **Aiman-Imran Anuar** Grade 10 Town West Haven

- * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * Connecticut Association of Physics Teachers --- \$100 Senior project

6072 PS Creation of a CO2-free Energy via a Solar-Powered Cu2O Nanowire Microbial - Algae Photosynthetic Bioreactor
Award Student(s) **Madeline Minichetti** Grade 9 Town Greenwich

- * Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences Senior High Individual - Plaque
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * Constellation, an Exelon Company --- 1st: \$150.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy
- * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, high school, \$75 cash award