



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

Mathematics Awards with ATOMIC

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

Middle School

5009 P7 Using Snell's Law to Calculate Index of Refraction of Solutions

Award 1 Student(s) Sydney Borst Grade 7 Town Danbury

- * Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences 7th Grade Ind. - plaque
- * Mathematics Awards - with ATOMIC --- 1st Place Middle School- \$300 and Plaque
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- 2nd Place Middle School - \$200 and plaque, Medallion
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- * Connecticut College-Physics, Astronomy, & Geophysics Dept. --- Junior Award: Certificate, & teeshirt & \$25 Amazon Card from CSEF
- * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp
- * Demos R Us Award --- \$150 Cash Award-- Clear Execution of Research- 7th Grade
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

High School

6086 PS Generalized Correction of Spatially and X-Z Correlated Errors through Adaptive Minimum-Weight Perfect Matching Topological Algorithms

Award 1 Student(s) Samuel Florin Grade 12 Town Greenwich

- * Mathematics Awards - with ATOMIC --- 1st Place High School- \$500 and Plaque

6076 PS Developing Tetherless Motion Tracking System for Wandering Insects Using an Omni-directional Servosphere Robot

Award 2 Student(s) Nicholas Lee Grade 10 Town Trumbull

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Mathematics Awards - with ATOMIC --- 2nd Place High School- \$300 and Plaque
- * Computer Science Awards --- 2nd Place High School - \$300, Plaque
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Raytheon Corporation Awards --- \$500, Plaque
- * IEEE, Connecticut Section --- \$100 Honorable Mention

6071 PS Robotic Pancreatoduodenectomy (PD) vs. Open PD: A Meta-analysis-driven Algorithm to Enhance Surgical Decision Making

Award 3 Student(s) Ethan Zhang Grade 12 Town Darien

- * Mathematics Awards - with ATOMIC --- 3rd Place High School - \$200 and Plaque
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion



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6044 PS Towards Clean Energy via Radioactivity: An Investigation of the Dissipation of Electrons in an Ultra High Vacuum Environment

Award m **Student(s)** Luke Apostolides **Grade** 11 **Town** Greenwich

- * Mathematics Awards - with ATOMIC --- High School Finalist - Medallion
- * Future Sustainability Awards --- 3rd Place High School - \$200 Cash and Plaque
- * Raytheon Corporation Awards --- \$500, Plaque
- * U.S. Metric Association --- Certificate & \$25 gift card given by CSEF
- * Westinghouse Electric Company/New England Chapter of North American Young Generation in Nuclear --- 1st place, Excellence in Energy Research, \$100 cash award
- * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

6066 PS Natural Function Restrictions, Identities, and Properties to Determine Finite Cardinalities of Solutions for Real-Valued Functions Projected onto Natural Space

Award m **Student(s)** Praneeth Chitirala **Grade** 10 **Town** Milford

- * Mathematics Awards - with ATOMIC --- High School Finalist - Medallion
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- Senior High Finalist - Medallion
- * Mu Alpha Theta --- Certificate, \$25 gift card given by CSEF
- * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics