



Connecticut Science & Engineering Fair

Quinnipiac University

March 12 - 17, 2018

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]

4015 PT Preventing SIDS From Suffocation

Award Student(s) **Ellina Medovnikov** Grade 8 Town Woodbridge
Audrey Marin Grade 8 Town Woodbridge

- * Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
- * Computer Science Awards --- 3rd Place Middle School- \$100, Trophy, Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * Spirit of Invention Award --- \$100 Cash and Plaque for Inventive Concepts

5017 P7 The Buzzing Eye - Helping The Blind
 (school submitted title - Supersonic Blind Helper)

Award Student(s) **Varun Vadhera** Grade 7 Town Wilton

- * Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences 7th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
- * Barnes Aerospace Applied Technology Awards --- 1st Place Middle School - \$300 and Trophy, Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * IEEE, Connecticut Section --- \$250 Honors Award -Junior
- * Zepke Award --- \$100 - For the Best Use of Electronic Circuitry- Middle School

5547 P8 Image Recognition to Diagnose Lyme Disease

Award Student(s) **Khushi Parikh** Grade 8 Town Danbury

- * Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & trophy, invite to compete Broadcom MASTERS
- * People's United Bank Mathematics Awards - with ATOMIC --- 1st Place Middle School- \$150 from ATOMIC, and Trophy, \$300 from People's United Bank
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- Middle School \$300 / trophy
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 1st Place Middle School - \$300 and Trophy, Medallion
- * Computer Science Awards --- 2nd Place Middle School - \$200, Trophy and Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * Connecticut Academy of Science and Engineering Middle School Urban School Challenge Award --- Urban School Challenge 1st MS- \$250 Cash Award, Invite to attend CASE's Annual Meeting
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * Urban School Challenge 1st Place Middle School Awards --- Highest Placing 8th grader- GENIUS-Olympiad Competition -\$500 travel stipend
- * GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project
- * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics



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6014 PS Fast Point-based Raytracing with Sphere Bounding Volume Hierarchies

Award Student(s) Daniel Pfrommer Grade 12 Town Darien

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Computer Science Awards --- 1st Place High School - \$400, Plaque, Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * Intel Excellence in Computer Science Award --- \$200 & certificate

6029 PS New Abundant and Sodium-Free Metakaolin Solid Electrolyte Ceramic for Power Grid Na-Ion Batteries

Award Student(s) Alexander Kosyakov Grade 11 Town Riverside

- * Energize CT/eesmarts Alternative/Renewable Energy Awards --- 2nd Place High School - \$300 Cash and Plaque,
- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
- * Yale Science & Engineering Association, Inc. --- Certificate, \$25 gift card to Amazon given by CSEF

6033 PS Open-source, In-field Smartphone Detection and Mapping of Waterborne Diseases via Time-Based Spectroscopic Sensing with a New 3D Printable Optical Interface

Award Student(s) Nicholas Liu Grade 11 Town Greenwich

- * Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences Senior High Individual - \$200 & Plaque
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
- * The Goodwin-Niering Center for the Environment --- \$100 for "Excellence in Environmental Conservation Studies"
- * Robotics And Beyond Award for Excellence in Physics- High School and Engineering Design- Middle School --- High School- For Excellence in Physics- \$200 for for Robotics And Beyond STEM Design Academy in July
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2018 Invention Convention, April 28

6051 PS Magnetically-induced, Visual Detection of Trace Arsenic Contaminants in Water Using Fe₃O₄ Photonic Crystal Structures

Award Student(s) Raina Jain Grade 10 Town Greenwich

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & Plaque, trip to compete at Intel ISEF
- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Environmental Sciences Awards with CACIWC --- 1st Place HS- \$500, Plaque, CACIWC gifts
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Environmental Project



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6098	PS	Cost-Effective and Fully Recycled Filtration of Heavy Metals from Drinking Water Using Used Coffee Grounds Embedded in Discarded Polyurethane Sponges
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Award _____ **Student(s)** Verna Yin **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 --- 1st Place- High School \$500 / plaque
- * Environmental Sciences Awards with CACIWC --- 3rd Place HS- \$100, Plaque, CACIWC gifts
- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash
- * ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
- * Stockholm Junior Water Prize --- Certificate, \$25 gift card to Amazon by CSEF, possible advance to further competition
- * Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to dinner
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Southeastern New England Marine Educators --- \$100 award and membership in SENEME - 1st Place Senior & T-Shirt
- * University of Connecticut Academic Excellence Scholarship --- Academic Excellence Scholarship - \$6,500 a year for four academic years- (\$26,000 total)