



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

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

Alternative/Renewable Energy Awards

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

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

5517 P8 Testing Different Nano-Particle Inks as Electrodes in a Sunlight-Seeking. Printed, Bio-Photovoltaic System

Award 2 Student(s) Maximilien Coisman Grade 8 Town Danbury

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- * Computer Science Awards --- Middle School Finalist - Medallion
- * Alternative/Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- * Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF
- * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, high school, \$100 cash award

5524 P8 Wind Turbine Tree

Award 3 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

5024 P7 Electric Power Generator

Award m Student(s) Tajelia Buckley Grade 7 Town Bridgeport

- * Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion



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2518 L8 ONE MAN'S TRASH IS ANOTHER MAN'S ENERGY
 Award m Student(s) Thomas Fanelli Grade 8 Town Danbury

- * The Jackson Laboratory Life Sciences Awards --- 1st Place- Life Sciences 8th grade- \$300 & trophy and Invite to Compete Broadcom MASTERS
- * Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Life Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology 8th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS
- * Sister Mary Christine Life Sciences Award --- \$100 for excellence in the life sciences by a catholic middle school project
- * Frank J. Link Family Award for Energy Related Research --- Frank J. Link Award for Energy Related Research - \$50

5506 P8 Heat It Up!
 Award m Student(s) Ahjeiza Adrian Grade 8 Town Manchester

- * Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion

4007 PT Wind Energy
 Award m Student(s) Andrew Cimmino Grade 8 Town FAIRFIELD
 Joshua Dixon Grade 8 Town Bridgeport

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion
- * Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF
- * J.A. Augustine Award --- \$100 for excellence in physical sciences

5008 P7 PediGenerator: Turning Steps Into Energy Using PiezoElectric Generators to harness, convert and store the energy needed to charge a mobile device
 Award m Student(s) Tolani Oshin Grade 7 Town West Haven

- * Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- * Constellation, an Exelon Company --- 1st: \$100.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
- * Frank J. Link Family Award for Energy Related Research --- Frank J. Link Award for Energy Related Research - \$50



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5012 P7 A low-cost and efficient way to harvest biomechanical energy: Generating electricity from people during daily activities
 Award m Student(s) Angela Zhang Grade 7 Town West Hartford

- * Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology 7th grade- trophy and Invitation Compete in Broadcom MASTERS
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2019 Invention Convention, May 4

High School

6510 PST Optimization of High-Efficiency Organic-Inorganic Lead Halide Perovskite Solar Cells via a Novel Polycaprolactone Additive Pathway
 Award 1 Student(s) Sirina Prasad Grade 12 Town Westport
 Anisa Prasad Grade 12 Town Westport

- * Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences Senior High Team- \$500 (split) & Plaque
- * Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Plaque
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * U.S. Metric Association --- Certificate & \$25 Amazon gift card given by CSEF
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, middle school, \$100 cash award

6001 PS Enhancing Dye Sensitized Solar Cell Efficiency Through the Application of a Silica Structure Microfilm Layer
 Award 2 Student(s) Camryn Mazerolle Grade 12 Town Shelton

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Alternative/Renewable Energy Awards --- 2nd Place High School - \$300 Cash and Plaque
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 2nd Place HS Alternative/Renewable Energy Project
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Energy & Transportation

6002 PS Simple Creation of Portable Renewable Energy using a Recycled/Repurposed Water Bottle – C. reinhardtii Biophotovoltaic System
 Award 3 Student(s) Zachary Wang Grade 11 Town Greenwich

- * Applied Technology Awards --- 3rd Place High School - \$ 200 and Plaque, Medallion
- * Alternative/Renewable Energy Awards --- 3rd Place High School - \$200 Cash and Plaque
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, air pollution related
- * University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Frontiers in Science - Co-Op \$100 Gift Certificate



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6026 PS Development of Self Adjusting Slip Clutch Vertical Axis Wind Turbine to Eliminate Torque Damage in High Wind Speeds

Award **m** Student(s) **Gavin Krois** Grade 12 Town Milford

- * Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2019 Invention Convention, May 4

6508 PST The Use of Piezoelectricity as a Power Source for Light

Award **m** Student(s) **Tristan Chang** Grade 10 Town Greenwich
Ryan Winston Grade 10 Town Greenwich

- * Alternative/Renewable Energy Awards --- High School Finalist - Medallion

6096 PS Creating a More Efficient Wind Harvester Using Kite Power Technology

Award **m** Student(s) **Ryan Glanville** Grade 11 Town Greenwich

- * Alternative/Renewable Energy Awards --- High School Finalist - Medallion

6504 PST The Application of the Venturi Effect to Passively Accelerate Wind as a Means to Improve Wind Turbine Efficiency

Award **m** Student(s) **Eric Meindl** Grade 11 Town Riverside
William McLaren Grade 11 Town Greenwich

- * Alternative/Renewable Energy Awards --- High School Finalist - Medallion

6090 PS Al(III)-Mediated Ionic Conduction in New Abundant Metakaolin Solid Electrolyte for Safe, Efficient Power Grid Na-Ion Batteries

Award **m** Student(s) **Alexander Kosyakov** Grade 12 Town Riverside

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & Plaque
- * Alternative/Renewable Energy Awards --- High School Finalist - 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



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6053 PS Designing an Efficient Roof-Mounted Wind Turbine System

Award **m** Student(s) **Mathew Chandy** Grade 10 Town Storrs

- * Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- * Constellation, an Exelon Company --- 2nd: \$100.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy
- * GENIUS Olympiad --- GENIUS Olympiad Competition for HS Environmental, Energy, Ecology, or Biodiversity Project
- * Tunxis Community College --- \$623 Course Tuition Voucher for HS Senior Sustainable Energy Project

6092 PS The Effect of Piezoelectric Cantilever Beam Design and Spatial Positioning in a Network on the Efficiency and Maximum Energy Output of a Vibro Wind Unit.

Award **m** Student(s) **Jean Pasato** Grade 12 Town Middletown

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Applied Technology Awards --- Senior High Finalist - Medallion
- * Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- * Constellation, an Exelon Company --- 1st: \$150.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy
- * Robotics And Beyond --- HS- For Excellence in Physics- \$200 for Robotics And Beyond STEM Design Camp or Academy