



Connecticut Science & Engineering Fair

Quinnipiac University

March 15 - 19, 2016

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

EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards

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

Middle School

Bozrah Fields Memorial School Evelyn Brown

5518 P8 Producing Renewable Energy Using Piezoelectric Walking Surfaces

Award 1 **Student(s)** Dravyn Okoney **Grade** 8 **Town** Bozrah

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & trophy, invite to compete Broadcom MASTERS
- * Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF
- * Ricoh Americans Corporation --- Certificate, \$50 gift card to Amazon given by CSEF
- * Constellation, an Exelon Company --- 2nd: \$75.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
- * Connecticut Association for the Gifted --- Leonardo Davinci 7-8 Grade \$50 Gift Certificate
- * Spirit of Invention Award --- \$100 Cash and Plaque for Inventive Concepts

Hebron Oei - Homeschool Ellen McHugh

5026 P7 Hydropower Tiles: A Novel Approach to Harvesting Energy from Human Locomotion

Award 2 **Student(s)** John Oei **Grade** 7 **Town** Hebron

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion & Acrylic Award
- * Alternative/Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- * Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre
- * IEEE, Connecticut Section --- \$250 Honors Award -Junior
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"
- * Bob Harris Fix It Award --- \$75 and Certificate for ingenuity in using material and tools

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean

4013 PT The Enermill

Award 3 **Student(s)** Laurella Marin **Grade** 8 **Town** Woodbridge
 Rhea Dey **Grade** 8 **Town** Woodbridge

- * Alternative/Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy



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Newtown St. Rose of Lima School Mrs. Marde Dimon

5007 P7 THE EFFECT OF REFLECTIVE LIGHT ON SOLAR ENERGY PRODUCTION

Award m **Student(s)** Peyton McKenzie **Grade** 7 **Town** Newtown

* Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award

West Hartford St. Timothy Middle School Mrs. Christina Simao-Breen

5550 P8 Sustainable Wireless Powered House

Award m **Student(s)** Steven Liu **Grade** 8 **Town** West Hartford

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
- * Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * Constellation, an Exelon Company --- 1st: \$125.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy



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High School

Tolland Stonewall Academy Donald Peck

6085 PS Designing an Airfoil Spinner to Improve the Efficiency of Horizontal Axis Wind Turbines

Award 1 Student(s) Amelia Peck Grade 10 Town Tolland

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- * People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion & Acrylic Award
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- HS Phys. Sciences- \$500 / plaque
- * Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Plaque, Trip to Compete I-SWEEEP, Houston
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- * Mu Alpha Theta --- Certificate, \$50 gift card to Amazon given by CSEF
- * Constellation, an Exelon Company --- 1st: \$200.00 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, \$100 cash award
- * Arthur Mensing Award --- \$1000 cash award for excellence in the physical sciences
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Energy & Transportation

New London Science and Technology Magnet HS Mr. Mulligan

6506 PST Using Heat Sinks In Integrated Photovoltaic Systems To Enhance Hydrogen Production Through Electrolysis

Award 2 Student(s) John Burnett Grade 10 Town Ledyard
 Austin Huang Grade 10 Town Uncasville

- * CASE Urban School Challenge Awards with Travelers --- Senior High Finalist - Medallion and acrylic award
- * Alternative/Renewable Energy Awards --- 2nd Place High School - \$500 Cash and Plaque, Trip to Compete GENIUS Olympiad, Oswego, NY
- * Constellation, an Exelon Company --- 2nd: \$100.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy

New Haven Engineering Science University Magnet School Mr. Roger Rushworth

6022 PS An Approach to Converting Pollutant CO2 Emissions into Methanol Fuels to Reduce Environmental Harm from Greenhouse Gases

Award 3 Student(s) Prastik Mohanraj Grade 9 Town Ansonia

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- * CASE Urban School Challenge Awards with Travelers --- 3rd Place High School - \$ 300 and Plaque, Medallion
- * Alternative/Renewable Energy Awards --- 3rd Place High School - \$200 Cash and Plaque
- * Environmental/ Energy Award- Urban Public School Award --- \$100 Award for top environmental or alternative energy project from a New Haven public school



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 [Proj#] [FCat] [Project Title]

Avon Avon High School Andrea Galuska
 6507 PST Renewable Hydrogen-Based Automotive Engine (HICEV): Using a Novel Electrolysis Apparatus to Improve Cost-Efficiency

Award m **Student(s)** Humza Zaidi **Grade** 10 **Town** Avon
 Chris Swetzes **Grade** 10 **Town** Avon

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

Bridgeport Bridgeport Military Academy Mrs. Andrade
 6044 PS Hydrogen, The Futures Fuel.

Award m **Student(s)** Facundo Cremel **Grade** 10 **Town** Bridgeport

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

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
 6039 PS Triboelectric Series and its relation concerning power generation in Triboelectric Nano generators

Award m **Student(s)** Randy Kaufman **Grade** 12 **Town** Stratford

* CASE Urban School Challenge Awards with Travelers --- Senior High Finalist - Medallion and acrylic award
 * Alternative/Renewable Energy Awards --- High School Finalist - Medallion
 * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report

Hamden Sacred Heart Academy Mrs. Pamela Brownell
 6076 PS A Practical Use of the MFC Partial Air Cathode: Improving Performance by Implementing a New Design for Applications in a Conventional Septic System

Award m **Student(s)** Elizabeth LoPreiato **Grade** 11 **Town** Berlin

* Alternative/Renewable Energy Awards --- High School Finalist - Medallion
 * Society of Women Engineers - Hartford Section --- Scientific Calculator

Redding Joel Barlow High School Dr. Katherine Nuzzo
 6505 PST A Novel Procedural Method for the Preparation of Photovoltaic Perovskite Solar Cells

Award m **Student(s)** Maxwell Matejka **Grade** 11 **Town** Easton
 Branden Fernandes **Grade** 11 **Town** Easton

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

Stamford Beacon School John Henderson
 6077 PS Providing a Design Suggesting the Viability of IHTP Thrusters for Commercial Use

Award m **Student(s)** Thomas Cortellesi **Grade** 11 **Town** Darien

* Alternative/Renewable Energy Awards --- High School Finalist - Medallion
 * Astronomical Society of Greater Hartford --- Senior Project-\$150, subscription to Sky and Telescope magazine and ASGH meeting invitation



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Westport Staples High School Nick Morgan
 6502 PST Synthesis, Characterization, and Application of Noble Metal and Noble Metal Alloy Nanoparticles to Proton Exchange Membrane Fuel Cells for Enhanced Catalytic Activity

Award m **Student(s)** Xiaotian Zhang **Grade** 12 **Town** Westport
 Arun Soni **Grade** 12 **Town** Westport

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 1st Place- Physical Sciences Senior High Team- \$500 (split) & Plaque
- * Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- * American Society for Metals - Hartford Chapter --- \$100 Check