



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

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

EnergizeCT/CL&P/eesmarts Future Sustainability Awards

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

Middle School

5034 P7 The Efficiency of Different Types of Algae in Creating Self-Sustaining Microbial Fuel Cells

Award 1 Student(s) Max Coisman Grade 7 Town Danbury

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion
- * Energize CT/eesmarts Alternative/Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- * Future Sustainability Awards - Eversource /energizeCT --- 1st Place Middle School - \$300 Cash and Trophy
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & trophy and Invitation Compete in Broadcom MASTERS
- * The Children's Museum --- 1 family 4-Pack of Admission Passes to the Children's Museum

2537 L8 Transforming Trash Into Treasure: A Sustainable Approach To Oil Spill Cleanup

Award 2 Student(s) Kavin Kathir Grade 8 Town Cheshire

- * Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 8th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- 2nd Place Middle School - \$200 Cash and Trophy
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- * Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF
- * National Oceanic and Atmospheric Administration --- Certificate and medallion, ,and \$25 Amazon gift card given by CSEF
- * Southeastern New England Marine Educators --- \$100 award and membership in SENEME - 1st Place Junior & T-Shirt
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related
- * TurnKey Compliance Solutions Environmental Awards --- \$200 Cash Award Middle School- For excellence in environmental sciences

5011 P7 From Biomass To Biogas

Award 3 Student(s) Matilda Petrnick Grade 7 Town Stratford

- * Lockheed Martin Physical Sciences Awards --- 5th Place- Physical Sciences 7th Grade Individual - trophy
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 4th Place Middle School - Trophy, Medallion
- * Environmental Sciences Awards with CACIWC --- 3rd Place MS- \$100, Trophy, CACIWC gifts
- * Energize CT/eesmarts Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
- * Future Sustainability Awards - Eversource /energizeCT --- 3rd Place Middle School - \$100 Cash and Trophy
- * Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF
- * Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School, Physical Sciences
- * Frank J. Link Family Award for Energy Related Research --- Frank J. Link Award for Energy Related Research - \$50



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5027 P7 How Do Variables Impact The Amount of Energy Collected by a Wind Turbine

Award **m** Student(s) **Alanna Brady** Grade 7 Town **Bozrah**

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS
- * People's United Bank Mathematics Awards - with ATOMIC --- 3rd Place Middle School - Trophy , \$100 from People's United Bank
- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- Middle School- \$200 / trophy
- * Energize CT/eesmarts Alternative/Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy
- * Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Association for Women Geoscientists --- Certificate & \$25 gift card to Amazon given by CSEF
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, middle school, \$100 cash award
- * Stanley Lessoff Award for Excellence In Analytical Technique --- \$100 Cash and Plaque

2511 L8 Organisms in an Ecosystem

Award **m** Student(s) **April Almeida** Grade 8 Town **Bridgeport**

- * Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion

4025 PT Wind vs Water

Award **m** Student(s) **Anna Flaherty** Grade 8 Town **New Fairfield**
Arshei Flores Grade 8 Town **New Milford**

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion
- * Energize CT/eesmarts Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion
- * Association for Women Geoscientists --- Certificate & \$25 gift card to Amazon given by CSEF
- * 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

4014 PT Desalination: A Clean Water Alternative

Award **m** Student(s) **Andrew Cimmino** Grade 7 Town **Fairfield**
Joshua Dixon Grade 7 Town **Bridgeport**

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion
- * National Oceanic and Atmospheric Administration --- Certificate and medallion, ,and \$25 Amazon gift card given by CSEF



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2527 L8 How Distance from Compost Affects Soil Nutrient Levels
Award m **Student(s)** Avery Tripp **Grade 8** **Town** Falls Village

* Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion
 * Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion

4027 PT C-9: Project Solar Drone Project XD3
Award m **Student(s)** Anthony Lessor **Grade 7** **Town** Bloomfeild
 Raphael Burgos **Grade 7** **Town** Hartford
 Alano Oquendo **Grade 7** **Town** Hartford

* Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion

2538 L8 The Impact of Antibacterial Soap on Daphnia Magna: Implications for the Environment
Award m **Student(s)** Anna Lichtenberg **Grade 8** **Town** Stamford

* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
 * Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion

4001 PT Creating Electricity using Gravity
Award m **Student(s)** John-Henry Burke **Grade 8** **Town** Suffield
 Alexander Litvak **Grade 8** **Town** Suffield

* Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion

4019 PT Converting Sound Energy into an Electrical Energy
Award m **Student(s)** Ayush Mehta **Grade 8** **Town** Suffield
 Cole Cutler **Grade 8** **Town** Suffield
 Jack Shanks **Grade 8** **Town** Suffield

* Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion



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 [Proj#] [FCat] [Project Title]

High School

6515	PST	Domestic Water Reuse System			
Award	1	Student(s)	Christian Haupt	Grade 11	Town West Haven
			Taylor Krieder	Grade 11	Town Stratford
			Christian Ramos	Grade 11	Town Stratford

- * Future Sustainability Awards - Eversource /energizeCT --- 1st Place High School - \$500 Cash, Plaque
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Future Sustainability

6516	PST	The Effects of Positioning of Micro Vertical Axis Wind Turbines in a Network on Efficiency and Power Output			
Award	2	Student(s)	Chris Rinaldi	Grade 11	Town Enfield
			Jean Pasato	Grade 11	Town Middletown
			Vishakh Talanki	Grade 11	Town South Windsor

- * Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences Senior High Team- \$500 (split) & Plaque
- * Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- 2nd Place High School - \$300 Cash and Plaque
- * UTC Aerospace Systems Engineering Awards --- 3rd Place- Engineering Senior High- \$200 & plaque
- * Ct Architecture Foundation Award - The William M. Mack, AIA Award --- \$250 Gift Certificate to Barnes and Noble from the Connecticut Architecture Foundation, William M. Mack, AIA Award.

6091	PS	Prototype Cotton Based Poly(N-isopropylacrylamide) Smart Hydrogel that Undergoes Hydrophilic-to-Hydrophobic Transition to Capture and Release Fresh Water from Humid Air			
Award	3	Student(s)	John Oei	Grade 9	Town Hebron

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- 3rd Place High School - \$200 Cash and Plaque
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Chemistry

6004	PS	Investigation of Recycled Concrete Aggregate as a low-cost CO2 sequestration vehicle through Indirect Mineral Carbonation			
Award	m	Student(s)	Jinkuk Hong	Grade 12	Town Shelton

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion



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6008 PS Effective Catalytic Conversion of Plastic Waste into Fuel

Award **m** Student(s) **Elias Haddad** Grade 9 Town Danbury

- * Energize CT/eesmarts Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Plaque
- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, high school, \$100 cash award
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Alternative/Renewable Energy Project

3530 LST Heated Soil: Does Soil Temperature Effect Plant Growth?
 A Solar Greenhouse with Radiant Heat

Award **m** Student(s) **Colby Loiselle** Grade 10 Town Pomfret
Macory Merrill Grade 10 Town Danielson
Matthew Bellavance Grade 10 Town Moosup

- * Energize CT/eesmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion

6532 PST Examination of the Magnetic Levitation Wind Turbine and its Conventional Counterpart

Award **m** Student(s) **Peter Lehrman** Grade 10 Town Greenwich
Alexander Morgan Grade 10 Town Greenwich

- * Barnes Aerospace Applied Technology Awards --- 3rd Place High School - \$ 200 and Plaque, Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion

3040 LS A comparative analysis of the efficiencies of hydroponic and aeroponic systems

Award **m** Student(s) **William McLaren** Grade 10 Town Greenwich

- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card



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3049 LS Use of Regression Analysis to Predict Future Outbreaks of Malaria
Award m Student(s) Jamison Meindl Grade 10 Town Riverside

- * People's United Bank Mathematics Awards - with ATOMIC --- 3rd Place High School - Plaque, \$200 from People's United Bank
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * Computer Science Awards --- Senior High Finalist - Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- * Mu Alpha Theta --- Certificate, \$25 Amazon gift card given by CSEF
- * American Society for Quality - Thames Valley Section --- \$250 Cash Award
- * Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum

3106 LS Magnesium Micromotor-Enabled Delivery of Oral, All-Natural Antibacterials for the Effective Targeting and Treatment of Urinary Tract Infection Causality in Infant Mortality
Award m Student(s) Charlotte Hallisey Grade 10 Town Greenwich

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion

3064 LS Biomimetic Degradation of Persistent Pollutants Using Common Wax Worm Sakaiensis Bacteria
Award m Student(s) Bennett Hawley Grade 11 Town Cos Cob

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- \$100 & plaque
- * 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
- * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- * Mystic Aquarium - Sea Research Foundation --- \$100 and 4 Admission Tickets to Mystic Aquarium
- * University of Hartford --- University of Hartford Scholarship- For Excellence in Engineering, Science or Mathematics \$26,000
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related
- * University of Connecticut - Physics Department --- UCONN Early College Experience Program: Life Sciences - Co-Op \$100 Gift Certificate
- * Yale Peabody Museum --- Family "six pack" of free passes to the Yale Peabody Museum



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

6079 PS Ambient Carbon Dioxide Capture and Purified Gas Release Using Asphalt-Waste Derived, Porous Carbon Filtration
Award m Student(s) Melissa Woo Grade 10 Town Riverside

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- * UTC Aerospace Systems Engineering Awards --- 2nd Place- Engineering Senior High- \$400 & plaque
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, air pollution related

6098 PS Cost-Effective and Fully Recycled Filtration of Heavy Metals from Drinking Water Using Used Coffee Grounds Embedded in Discarded Polyurethane Sponges
Award m 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)



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6040 PS Relation between different types of water turbine and the level of hydroelectric power produced
 Award m Student(s) Madison Lee Grade 9 Town Rocky Hill

* Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion

6054 PS Carbon Emission-Free Power Generation Using Wave Energy and a Robust Generator
 Award m Student(s) Ranita Muriel Grade 11 Town Shelton

* Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
 * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Sustainability
 * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2018 Invention Convention, April 28

3096 LS Development of a Novel Copepod-Based Mosquito Ovitrap
 Award m Student(s) Sophie Wang Grade 12 Town Waterford

* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 * Environmental Sciences Awards with CACIWC --- 2nd Place HS- \$200, Plaque, CACIWC gifts
 * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
 * J.A. Augustine Award --- \$100 for excellence in biology
 * Fox Pest Control Award for Environmental Management --- \$150 Cash for Excellence in Environmental Management
 * Yale Peabody Museum --- Family "six pack" of free passes to the Yale Peabody Museum

3005 LS Combating Food Deserts with Bean Urban Agriculture
 Award m Student(s) Julianna Lee Grade 11 Town Windsor

* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
 * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
 * ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
 * Connecticut Nurserymen's Foundation, Inc. --- \$200 Cash Award & paid registration to the CT Nursery and Landscape Summer Meeting