



Connecticut Science & Engineering Fair

Quinnipiac University

March 10 - 14, 2015

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]

High School

Greenwich Greenwich High School Andrew Bramante

6101 PS Low Grade Waste Heat Recovery and Carbon Sequestration using an Innovative Reverse Electrodialysis (RED) and Pressure Retarded Osmosis (PRO) System

Award 1 **Student(s)** Ethan Novek **Grade** 10 **Town** Greenwich

- Connecticut Science & Engineering Fair Physical Sciences Awards --- 1st Place - Physical Sciences Senior High Individual - \$500 & Plaque, trip to compete at Intel ISEF
- Energize CT/eesmarts Future Sustainability Awards --- 1st Place High School - \$800 Cash, Plaque, and Trip to Compete I-SWEEEP, Houston
- UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Physical Sciences 1st HS \$1,000, Solid Silver Medal of Excellence, invite to CASE Annual Mtg
- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate
- MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, high school, \$100 cash award

Greenwich Greenwich High School Andy Bramante

3020 LS Effective Optimization of Biogas Production through Alpha-Amylase Utilization

Award 2 **Student(s)** Bryce Anderson **Grade** 11 **Town** Cos Cob

- Pfizer Life Sciences Awards --- 4th Place- Life Sciences Senior High- Plaque
- Energize CT/eesmarts Future Sustainability Awards --- 2nd Place High School - \$500 Cash and Plaque, Trip to Compete at GENIUS Olympiad, Oswego, NY
- Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related

Greenwich Brunswick School Dana Montanez

6051 PS Revolutionizing A 16th Century Product For The Modern World: A Thermoelectric Chair That Creates Energy From The Human Touch

Award 3 **Student(s)** Angus Fraser **Grade** 11 **Town** Darien

- Energize CT/eesmarts Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Plaque, Trip to Compete I-SWEEEP, Houston
- Energize CT/eesmarts Future Sustainability Awards --- 3rd Place High School - \$300 Cash and Trophy
- Yale Science & Engineering Association, Inc. --- Certificate, \$50 gift card to Amazon given by CSEF
- University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Energy & Transportation



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Glastonbury Glastonbury High School Ms. Pintavalle

6027 PS Financially Superior Energy Source for Subterranean Inhabitants

Award m **Student(s)** Ashley Gartland **Grade** 11 **Town** Glastonbury

- Energize CT/esmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- Energize CT/esmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2016 Sustainability Solutions Festival and \$50 Gift Card
- Connecticut Architecture Foundation --- \$250 Gift Certificate to Barnes and Noble from the Connecticut Architecture Foundation, William M. Mack, AIA Award.

Greenwich Brunswick School Dana Montanez

6023 PS A Comparative Analysis of Rotating Solar Cubes vs. Horizontal Solar Arrays

Award m **Student(s)** William Gorman **Grade** 10 **Town** Bedford

- Energize CT/esmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- U.S. Coast Guard Research and Development Center --- Summer internship to conduct research aboard ship or at a USCG base + \$50 Amazon Gift Card given by CSEF. ALTERNATE 2

Hamden Sacred Heart Academy Mrs. Nelson

3055 LS The Effects of Grey Water on the Germination Rate and Growth of a Variety of Grass Species.

Award m **Student(s)** Laura Moccioia **Grade** 9 **Town** Shelton

- Environmental Sciences Awards with CACIWC --- 2nd Place HS- \$200, Plaque, CACIWC gifts, Trip to Compete GENIUS Olympiad, Oswego, NY
- Energize CT/esmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Life Sciences
- Connecticut Nurserymen's Foundation, Inc. --- \$200 Cash Award & paid registration to the CT Nursery and Landscape Summer Meeting

Hebron RHAM High School Kristin Spinelli

3515 LST Manure to Methane

Award m **Student(s)** Taylor Brysgel **Grade** 9 **Town** Marlborough
 Darren Lin **Grade** 9 **Town** Marlborough

- Energize CT/esmarts Alternative/Renewable Energy Awards --- 3rd Place High School - \$200 Cash and Plaque
- Energize CT/esmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- NYUC Pony Club Equine Award --- \$50 Cash Award or excellence in equine studies

New Haven Engineering & Science University Magnet School Heather Toothaker

3124 LS The Optimization of Conditions for an Enzymatic Bio-Battery

Award m **Student(s)** Lauren Low **Grade** 10 **Town** Hamden

- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
- CASE Urban School Challenge Awards with Travelers --- Senior High Finalist - Medallion and acrylic award
- Energize CT/esmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award



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Suffield Suffield High School Mitchell Charkiewicz
 6081 PS Reverse Osmosis Water Desalination Via the Harnessing of Perpetual Wave Energy
Award m **Student(s)** Matthew Rogers **Grade** 11 **Town** Suffield

- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award
- Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- Stockholm Junior Water Prize --- Certificate, \$50 gift card to Amazon given by CSEF, possible advance to further competition
- Wisner Award --- \$250 cash and plaque
- University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Sustainability
- John S. Kendall Memorial Award --- \$500 John S. Kendall Award for Excellence In Mechanical Engineering - High School
- U.S. Coast Guard Research and Development Center --- Summer internship to conduct research aboard ship or at a USCG base + \$50 Amazon Gift Card given by CSEF. ALTERNATE 1

Tolland Stonewall Academy Don Peck
 6018 PS A Novel Approach to Increase the Power Efficiency of a Wind Turbine with a Shroud and Diffuser Design
Award m **Student(s)** Amelia Peck **Grade** 10 **Town** Tolland

- Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award