



Connecticut Science & Engineering Fair

Quinnipiac University

March 11 - 15, 2014

These judging results are unaudited by the fair's Database Committee. The CSEF reserves the right to correct the listings.

Final Judging Results

Barnes Aerospace Applied Technology Awards

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

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

Middle School

Stratford St. Mark School Mr. McMahon

2044 L7 Growing Our Future: Using LED Hydroponics to Cultivate Fresh Produce: A Solution for Urban Food Deserts

Award 1 Student(s) Kristen Robertson Grade 7 Town Stratford

- Pfizer Life Sciences Awards --- 1st Place- Life Sciences 7th grade- \$200 & trophy and Invitation to Compete Broadcom MASTERS
- Barnes Aerospace Applied Technology Awards --- 1st Place Middle School - \$300 and Trophy, Medallion
- Environmental Sciences Awards with CACIWC --- 3rd Place MS- \$100, Trophy, CACIWC gifts
- EnergizeCT/CL&P/eesmarts Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- Alexion Biotechnology Awards --- 4th Place- Biotechnology 7th grade- trophy
- Talcott Mountain Science Center --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Life Science
- Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner

Bethany Amity Regional Middle School Kevin Berean

4026 PT WriteBot

Award 2 Student(s) Sophie Baum Grade 8 Town Woodbridge
 Ananya Kachru Grade 8 Town Woodbridge

- Dominion Nuclear Connecticut Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion & Acrylic Award
- Barnes Aerospace Applied Technology Awards --- 2nd Place Middle School - \$200 and Trophy, Medallion
- Xerox Computer Science Awards --- Middle School Finalist - Medallion, Acrylic Award
- Leask/Francoeur Family Awards --- 1st Place Middle School- For innovation electrical engineering or computer science - \$200 cash

Windsor Madina Academy Iman AlNaggar

4030 PT Novel Methods for Water Desalination by Harnessing Solar Energy using a Solar Oven With Flat Mirrors, Fresnel Lens and a Parabolic Mirror

Award 3 Student(s) Nader Kasem Grade 8 Town Glastonbury
 Khaleel Rahman Grade 8 Town Windsor
 Ayman ElSherbini Grade 8 Town Windsor

- Dominion Nuclear Connecticut Physical Sciences Awards --- 2nd Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
- Barnes Aerospace Applied Technology Awards --- 3rd Place Middle School - \$100 and Trophy, Medallion
- Environmental Sciences Awards with CACIWC --- 2nd Place MS- \$200, Trophy, CACIWC gifts
- EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
- EnergizeCT/CL&P/eesmarts Sustainable Resources and Practices Awards --- 3rd Place Middle School - \$200 Cash and Trophy
- CSF Board of Directors Award --- certificate and \$50 Amazon gift card given by CSF



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Bethany Amity Regional Middle School Kevin Berean
 4014 PT Printed Prosthetics
 Award **m** Student(s) Elizabeth Frieden Grade 8 Town Bethany
 Sally Thach Grade 8 Town Woodbridge

- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- 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

New Britain Pope John Paul II School Jennifer Nypert

5556 P8 Drawing Robot
 Award **m** Student(s) Kamila Krawczuk Grade 8 Town New Britain

- Dominion Nuclear Connecticut Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
- People's United Bank Mathematics Awards - with ATOMIC --- 1st Place Middle School- \$150 from ATOMIC, and Trophy, \$300 from People's United Bank
- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- Xerox Computer Science Awards --- 1st Place Middle School - \$300, Trophy and Medallion
- IEEE, Connecticut Section --- \$100 Honorable Mention

Stamford Rippowam Middle School Mark Goldsmith

5563 P8 Hypoallergenic Lawn Care Device
 Award **m** Student(s) Kiran Jagtiani Grade 8 Town Stamford

- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- Association for Women Geoscientists --- Certificate & \$50 gift card to Amazon given by CSEF
- Talcott Mountain Science Center --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Phys Science
- Bob Harris Fix It Award --- \$100 and Certificate for ingenuity in using material and tools
- Connecticut Invention Convention --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

Wilton Middlebrook School Mrs. Garcia

1010 LT Use of a Microbial Fuel Cell to Generate Electricity from Compost
 Award **m** Student(s) Emilie McCann Grade 8 Town Wilton
 Nora Hoch Grade 8 Town Wilton

- Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion & Acrylic Award
- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award Souvenir
- U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate



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High School

Greenwich Greenwich High School Andrew Bramante

6074 PS Creation of Tidal Power from Infiltrating Coastal Ground Water via a Novel Tidal Barrage System

Award **1** Student(s) **Ethan Novek** Grade **9** Town **Greenwich**

- Dominion Nuclear Connecticut Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- Barnes Aerospace Applied Technology Awards --- 1st Place High School - \$500 and Plaque, Medallion
- EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Plaque, 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
- Connecticut Association of Physics Teachers --- \$100 Senior project
- Long Island Sound Foundation, Inc. --- \$500 Life Science/Environmental Science/Physical science
- Connecticut Invention Convention --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

Washington The Gunnery Steven Bailey

6034 PS Evaluating the Performance of a Model Solar Concentrating System Using Thermoelectric Generating Technology

Award **2** Student(s) **Grace Herrick** Grade **9** Town **Sandy Hook**

- Dominion Nuclear Connecticut Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- People's United Bank Mathematics Awards - with ATOMIC --- 3rd Place High School - Plaque, \$200 from People's United Bank
- Barnes Aerospace Applied Technology Awards --- 2nd Place High School - \$300 and Plaque Medallion
- EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards --- 2nd Place High School - \$300 Cash and Plaque, Trip to Compete GENIUS Olympiad, Oswego, NY
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Physical Sciences
- GENIUS Olympiad --- GGENIUS Olympiad Competition for HS student (s) and advisor

Hamden Sacred Heart Academy Dr. Sibani Sengupta

3137 LS Investigating the Phytoremediation of Lead: The Type of Plant Species Versus the Rate of Lead Extraction in Hydroponic Media

Award **3** Student(s) **Elizabeth LoPreiato** Grade **9** Town **New Britain**

- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
- Barnes Aerospace Applied Technology Awards --- 3rd Place High School - \$ 200 and Plaque, Medallion
- EnergizeCT/CL&P/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- American Society of Safety Engineers, CT Valley Chapter --- \$150 grade 9-12 project
- Connecticut Architecture Foundation --- \$200 Gift Certificate to Barnes and Nobles
- Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related



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Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

6039 PS The Construction and Calculation of an Atmospheric Geothermal Airlift Pump Condenser

Award m **Student(s)** Matthew Raymond **Grade** 12 **Town** Fairfield

- CASE Urban School Challenge Awards with Bristol-Myers Squibb & Travelers --- 4th Place High School - Plaque, Medallion
- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award

Greenwich Greenwich High School Andrew Bramante

6116 PS Inclusion of Thermoelectric Generators in Glass Building Materials to Produce Useful Energy in New England Homes

Award m **Student(s)** Bryce Anderson **Grade** 10 **Town** Greenwich

- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award

Hamden Sacred Heart Academy Mrs. Pam Brownell

3041 LS Exothermic Reactions: Can They Be Used to Make More Efficient/Environmentally Safe Deicers?

Award m **Student(s)** Elizabeth Smith **Grade** 10 **Town** Madison

- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award
- Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award

Oxford Oxford High School Nicole Granucci

6125 PS Investigating Alternative Methods Using Magnetism to Power a Four-Stroke Engine

Award m **Student(s)** Zachary Geffert **Grade** 11 **Town** Oxford

- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award

Putnam Putnam Science Academy Caron Quantick

6502 PST Black Ice Road Sensors

Award m **Student(s)** Ahmet Arslan **Grade** 12 **Town** Putnam
 Berkan Tuylu **Grade** 12 **Town** Putnam

- Dominion Nuclear Connecticut Physical Sciences Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion & Acrylic Award
- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award

Suffield Suffield High School Mitch Charkiewicz

6096 PS New Invention to Efficiently Harness Wave Power

Award m **Student(s)** Matthew Rogers **Grade** 10 **Town** Suffield

- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award
- EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards --- 3rd Place High School - \$200 Cash and Plaque
- Education Connection- Center for 21st Century Skills Awards --- \$100 For innovative use of technology to advance science or engineering