



# 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

## Environmental Sciences Awards with CACIWC

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

### Middle School

**Danbury** Westside Middle School Academy Mr. Neuhausel

5033 P7 Changing the pH of Soil to Generate Electricity in the Form of a Microbial Fuel Cell

Award 1 Student(s) Nila Narayan Grade 7 Town Danbury

- CASE Urban School Challenge Awards with Travelers --- Middle School Finalist - Medallion and acrylic award
- Environmental Sciences Awards with CACIWC --- 1st Place MS - \$300, Trophy, CACIWC gifts

**Windsor** Madina Academy Mahmood Mohammed

4025 PT Installing a Wind-gust Turbine to generate energy to power highway lighting or to see the Power Grids.

Award 2 Student(s) Adelisa Cecunjanin Grade 8 Town Windsor  
Alina Mohammed Grade 8 Town Windsor

- Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion & Acrylic Award
- Environmental Sciences Awards with CACIWC --- 2nd Place MS- \$200, Trophy, CACIWC gifts
- Energize CT/eesmarts Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy

**Windsor** Madina Academy Mr. Hassan

1005 LT The effect of organic and non-organic compost produced by vermicomposting with eisenia foetida on the growth of lycopersicon lycopersicum.

Award 3 Student(s) Ayesha Nazir Grade 7 Town Manchester  
Ruqayyah Paine Grade 7 Town Terryville

- Environmental Sciences Awards with CACIWC --- 3rd Place MS- \$100, Trophy, CACIWC gifts
- Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion & Acrylic Award Souvenir

**New Haven** Engineering & Science University Magnet School Roger Rushworth

2535 L8 Optimizing Methane Oxidation by Methanotrophs Through the Engineering Application of Different Environments

Award m Student(s) Jacob Feuerstein Grade 8 Town Woodbridge

- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award Souvenir
- Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related

**Orange** Southern CT Hebrew Academy Karen Howell

2516 L8 Effects of different levels of electromagnetic fields on a variety of grasses and their nutrient content

Award m Student(s) Ariella Snyder Grade 8 Town West Hartford

- Pfizer Life Sciences Awards --- 4th Place- Life Sciences 8th grade- trophy and Invite to Compete Broadcom MASTERS
- Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash



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**Stamford** Bi-Cultural Day School Mr. Chris Graseck  
 1014 LT To Hatch or Not to Hatch: Brine Shrimp & Pollution  
**Award** m **Student(s)** Gabriel Dweck **Grade 7** **Town** Armonk  
 Andrew Ukhanov **Grade 7** **Town** Stamford

- Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award

**Wilton** Middlebrook School Mrs. Debbie Mallozzi  
 1022 LT Acid Rain in Wilton, CT  
**Award** m **Student(s)** Elizabeth Yoon **Grade 8** **Town** Wilton  
 Anna Yoon **Grade 7** **Town** Wilton

- Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award

**Windsor** Madina Academy Esslam Hassan  
 4008 PT Investigating Novel Methods to Harvest Solar Energy for Generation of Solar Steam from Salt Water and Snow Using Graphene and Carbon Foam  
**Award** m **Student(s)** Maryam Moghul **Grade 8** **Town** Bloomfield  
 Ibrahim Moghul **Grade 7** **Town** Bloomfield

- Connecticut Science & Engineering Fair Physical Sciences Awards --- 1st Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
- Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- Energize CT/eesmarts Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy



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### High School

**Greenwich** Greenwich High School Andrew Bramante

6095 PS Novel Creation of a versatile, low-cost water purification system via a graphene oxide-TiO<sub>2</sub> composite membrane with incorporated electrified nanostructures

**Award** 1 **Student(s)** Sophie Bardos **Grade** 11 **Town** Riverside

- Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- Environmental Sciences Awards with CACIWC --- 1st Place HS- \$500, Plaque, CACIWC gifts, Trip to Compete I-SWEEEP, Houston
- University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Environmental Science
- Fox Pest Control Award for Environmental Management --- \$150 Cash for Excellence in Environmental Management
- Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre

**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** 2 **Student(s)** Laura Mocchiola **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/eesmarts 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

**Norwich** Norwich Free Academy Stephani Jones

6056 PS A Field Study Analysis of Carbon Fiber Electrode Weaves and Conductors in the Design of Sedimentary Microbial Fuel Cells

**Award** 3 **Student(s)** Katie Provost **Grade** 9 **Town** Bozrah

- Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- Environmental Sciences Awards with CACIWC --- 3rd Place HS- \$100, Plaque, CACIWC gifts
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report

**Bridgeport** Bridgeport Regional Aquaculture School Mr. Kirk Shadle

3073 LS Determining the Effect of Biofouling on a Restocking System for Homarus americanus

**Award** m **Student(s)** Shana Isidoro **Grade** 12 **Town** Monroe

- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
- CASE Urban School Challenge Awards with Travelers --- 2nd Place High School - \$400 and Plaque, Medallion
- Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- Mystic Aquarium --- \$100 and 4 Admission Tickets to Mystic Aquarium



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**Greenwich** Convent of the Sacred Heart Mary Musolino

3068 LS A Study of the Removal of Pollutants by Rain Gardens, a Type of Low-Impact Development Drainage System

Award m Student(s) Sarah Banker Grade 12 Town Greenwich

- Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award

**Greenwich** Greenwich High School Andrew Bramante

6026 PS Investigation of a Bacteriorhodopsin-Pt/TiO2 Hybrid System for Enhanced Nanophotocatalytic Production of Hydrogen

Award m Student(s) Mark Stich Grade 11 Town Greenwich

- Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- Yale Science & Engineering Association, Inc. --- Certificate,\$50 gift card to Amazon given by CSEF

**Hamden** Sacred Heart Academy Mrs. Pamela Brownell

3090 LS Analyzing Cathode Placement in a Simple Single Vessel Microbial Fuel Cell: Potential Implications for Efficiency and Practical Applications

Award m Student(s) Elizabeth LoPreiato Grade 10 Town New Britain

- Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award

**Redding** Joel Barlow High School Dr. Katherine Nuzzo

6046 PS Sequestration of Carbon Dioxide by Lithium Orthosilicate in a Clay Body in Ambient Air

Award m Student(s) Lia Bozzone Grade 11 Town West Redding

- Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award

**Westport** Staples High School Dr. Nick Morgan

3056 LS Analysis of Transport of Nitrogen Species through Right-of-way-Bioswales

Award m Student(s) Grant Schwabacher Grade 12 Town Westport

- Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award