



# 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

## Environmental Sciences Awards with CACIWC

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

### Middle School

**Wilton** Middlebrook Middle School Paige Randall

2065 L7 Banana Peels: Second Life as a Water Purifier

**Award 1** Student(s) **Anika Bhagavatula** Grade 7 Town Wilton

- \* Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- \* Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- MS Life Sciences- \$300 / plaque
- \* Environmental Sciences Awards with CACIWC --- 1st Place MS - \$300, Trophy, CACIWC gifts
- \* Sustainable Resources and Practices Awards --- 1st Place Middle School - \$500 Cash and Trophy
- \* Alexion Biotechnology Awards --- 2nd Place- Biotechnology 7th grade- \$200 & trophy
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF
- \* Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner
- \* Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

**Danbury** St. Joseph School Jennifer Reilly

2538 L8 Influence of Climate Change on Lobster Population in Buzzards Bay Massachusetts: Implications for Long Island Sound

**Award 2** Student(s) **Bradley Kerr** Grade 8 Town Danbury

- \* Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 8th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- \* Environmental Sciences Awards with CACIWC --- 2nd Place MS- \$200, Trophy, CACIWC gifts
- \* Alexion Biotechnology Awards --- 5th Place- Biotechnology 8th grade- trophy
- \* American Meteorological Society --- Certificate & \$50 Amazon gift card given by CSEF
- \* Yale Peabody Museum --- One-Year Family Membership to the Yale Peabody Museum
- \* Southeastern New England Marine Educators --- \$100 award and membership in SENEME - 1st Place Junior & T-Shirt
- \* Project Oceanology --- Individual - Book + 2 tickets, First Place Junior, check for \$100, t-shirt
- \* Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, air pollution related
- \* Greenwich Shellfish Commission Marine Ecology Awards --- Middle School Award for Excellence in Marine Ecology Award- Ocean Camp at Project Oceanology

**Windsor** St. Gabriel School Margaret Rosa

4010 PT The Thermoelectric Trivet: A Device For Converting Waste Heat From Cooking Into DC Current

**Award 3** Student(s) **Benjamin Clark** Grade 8 Town Windsor  
**Alma Clark** Grade 8 Town Windsor

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- 3rd Place- Physical Sciences MS Team-trophy, invite to compete Broadcom MASTERS
- \* Environmental Sciences Awards with CACIWC --- 3rd Place MS- \$100, Trophy, CACIWC gifts



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**Bethel** St. Mary School Mrs. Kate McDonald  
 5510 P8 Water Wizard: Incorporating the Simplicity of Water Testing Strips with the Complexity and Sophistication of a Smartphone Application While Utilizing Mathematics

Award **m** Student(s) **Kevin Legnard** Grade 8 Town Bethel

- \* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- \* Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash

**Bridgeport** Park City Prep Charter School Mr. Jaekle  
 5036 P7 Water, Water Everywhere, But Not A Drop To Drink

Award **m** Student(s) **Antonios Boudreau** Grade 7 Town Ansonia

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- 4th Place- Physical Sciences 7th Grade Ind. - trophy, invite to compete Broadcom MASTERS
- \* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award

**Danbury** St. Joseph School Jennifer Reilly  
 5004 P7 Efficient Low Energy Salt Water Desalination

Award **m** Student(s) **Elias Haddad** Grade 7 Town Danbury

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion & Acrylic Award
- \* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- \* Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- \* MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, middle school, \$100 cash award
- \* Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

**Danbury** Westside Middle School Academy Mr. Neuhausel  
 2009 L7 Ground Level Ozone in Danbury

Award **m** Student(s) **Nicholas Raslavsky** Grade 7 Town Danbury

- \* Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion & Acrylic Award
- \* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- \* TurnKey Compliance Solutions Environmental Awards --- \$200 Cash Award Middle School- For excellence in environmental sciences

**Hartford** Environmental Sciences Magnet at Mary Hooker David Cappaert  
 2507 L8 Man Vs Wild:  
 A Study of Plant Biodiversity in Overgrown Ecosystems

Award **m** Student(s) **Austin Zemsta** Grade 8 Town New Britain

- \* Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion & Acrylic Award
- \* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- \* Ricoh Americans Corporation --- Certificate, \$50 gift card to Amazon given by CSEF
- \* Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum



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### Environmental Sciences Awards with CACIWC

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 [Proj#] [FCat] [Project Title]

**New Haven** Engineering Science University Magnet School Roger Rushworth  
 5552 P8 Is it Eco-Friendly?  
**Award** m **Student(s)** James Rodrigues **Grade 8** **Town** Milford

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

**Plantsville** J.F. Kennedy Middle School Mrs.Pepin  
 2513 L8 Less is More: A test of minimal amount of water to grow a crop  
**Award** m **Student(s)** Matthew Maciejewski **Grade 8** **Town** Southington

\* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award  
 \* Alexion Biotechnology Awards --- 4th Place- Biotechnology 8th grade- trophy and Invitation Compete in Broadcom MASTERS

**Southington** J.A. DePaolo Middle School Ms. Shea  
 2502 L8 Heavy Metal Adsorption Capability Of Pumice  
**Award** m **Student(s)** Betul Agirman **Grade 8** **Town** Southington

\* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist- Life Sciences - Medallion and Acrylic Award  
 \* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award

**Southington** J.A. DePaolo Middle School Ms.Shea  
 4034 PT Are Southington Ponds Safe? Or not Safe?  
**Award** m **Student(s)** Brianna Pearson **Grade 7** **Town** Southington  
 Morgan Perschy **Grade 7** **Town** Southington

\* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award  
 \* Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash

**Windsor** Madina Academy Muhammad Abubakar  
 4028 PT Investigating novel methods of generating electricity by using a Fibonacci wind-turbine with piezoelectric generators versus a regular wind-turbine with piezoelectric-generators  
**Award** m **Student(s)** Ibrahim Moghul **Grade 8** **Town** Bloomfield  
 Yaman Zoghol **Grade 7** **Town** Enfield  
 Ahmad Mohammed **Grade 7** **Town** Windsor

\* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award  
 \* Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy



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## High School

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle

3052 LS Using biochar and 8-methyl-N-vanillyl-trans-6- nonenamamide as a nontoxic agricultural pest inhibitor for glycine max

Award 1 Student(s) Skylynn Reyes Grade 12 Town Bridgeport

- \* 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

**Fishers Island** Fishers Island School Mrs. Carol Giles

3013 LS Assessing the Efficiency and Ecological Impact of Various Anti-fouling Methods

Award 2 Student(s) Elias Kane Grade 12 Town Groton

- \* Environmental Sciences Awards with CACIWC --- 2nd Place HS- \$500, Plaque, CACIWC gifts, Trip to Compete GENIUS Olympiad, Oswego, NY
- \* ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2016 Sustainability Solutions Festival and \$50 Gift Card
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate
- \* Project Oceanology --- Individual - Book + 2 tickets, First Place Senior, check for \$100, t-shirt

**Hamden** Sacred Heart Academy Mrs. Susan Nelson

3030 LS Using the Physiological Energetics Model to Study the Effects of Contaminating Microscopic Plastic Particles on Blue Mussel, Mytilus edulis

Award 3 Student(s) Catherine Herrick Grade 9 Town Sandy Hook

- \* Environmental Sciences Awards with CACIWC --- 3rd Place HS- \$100, Plaque, CACIWC gifts

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle

6029 PS Development of a biochar based, sorption material to regulate nitrogen compounds in aquatic and terrestrial environments.

Award m Student(s) Madeline Gill Grade 12 Town Fairfield

- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- \* Stockholm Junior Water Prize --- Certificate, \$50 gift card to Amazon given by CSEF, possible advance to further competition

**Greenwich** Brunswick School Dana Montanez

3524 LST Acropora and Anacropora Grafting: A Feasible Method to Reestablish Zooxanthellae Colonies following a Traumatic Bleaching Event

Award m Student(s) Thacher Scannell Grade 10 Town Stamford  
 Edward Camel Grade 10 Town Greenwich

- \* Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High Team- \$300 (split) & Plaque
- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award



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### Environmental Sciences Awards with CACIWC

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 [Proj#] [FCat] [Project Title]

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

6067 PS Is Oobleck the Key to Solving Beach Erosion?

**Award** m **Student(s)** Ashley Amarante **Grade** 10 **Town** Wallingford

- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- \* Connecticut Association for the Gifted --- Leonardo Davinci Award 9-12 Grade \$50 Gift Certificate

**Hamden** Sacred Heart Academy Dr. Elizabeth Christophy

6027 PS Examination of Different Wet Scrubber Sorbents in Reducing Acid Rain Production and Removing Solid Pollutants

**Award** m **Student(s)** Laura Mocchiola **Grade** 10 **Town** Shelton

- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- \* Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- \* U.S. Metric Association --- Certificate & \$50 gift card to Amazon given by CSEF
- \* TurnKey Compliance Solutions Environmental Awards --- \$300 Cash Award High School- For excellence in environmental sciences

**Hamden** Sacred Heart Academy Mrs. Brownell

6083 PS Is There Tin in My Fish?

**Award** m **Student(s)** Audrey Seyfried **Grade** 10 **Town** Milford

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

**Madison** Daniel Hand High School Madhuparna Roychoudhury

6053 PS A practical method for CO2 capture by recovering dissolved CO2 in ocean water.

**Award** m **Student(s)** Ankita Roychoudhury **Grade** 11 **Town** Madison

- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- \* Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- \* Yale Science & Engineering Association, Inc. --- Certificate, \$50 gift card to Amazon given by CSEF
- \* University of Connecticut - Physics Department --- UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificat
- \* Greenwich Shellfish Commission Marine Ecology Awards --- High School Award for Excellence in Marine Ecology Award- Ocean Camp at Project Oceanology



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**New Haven** Wilbur Cross High School Caroline Dahm

6038 PS Exploring conditions for Struvite precipitation and crystal growth.

**Award** m **Student(s)** Maya Geradi **Grade** 10 **Town** New Haven

- \* CASE Urban School Challenge Awards with Travelers --- 1st Place High School - \$500 and Plaque, Medallion and trip to compete at Intel Int. Sci. & Eng. Fair
- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- \* Energize CT/eesmarts Future Sustainability Awards --- 1st Place High School - \$800 Cash, Plaque, and Trip to Compete I-SWEEEP, Houston
- \* Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash
- \* H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Urban School Challenge 1st HS- \$1,000, Silver Medal of Excellence, Invite to CASE Annual Mtg & \$500 cash award to School Science Department for equipment/supplies
- \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Sustainability
- \* CSF Board of Directors Award --- certificate and \$50 Amazon gift card given by CSF

**New London** Science and Technology Magnet HS Chuck Mulligan

3027 LS Bioaccumulation of Total Mercury in the Poquonnock River System and its Implications for Local Fisheries

**Award** m **Student(s)** Kathryn Ashbey **Grade** 12 **Town** Waterford

- \* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- \* Mystic Aquarium --- \$100 and 4 Admission Tickets to Mystic Aquarium
- \* Southeastern New England Marine Educators --- \$100 award and membership in SENEME - 1st Place Senior & T-Shirt
- \* Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Life Sciences

**Redding** CT STEM FAIR Ms. Deborah Day

6014 PS Succession Variations in Kenyan Scavenger Communities and the Importance of Wildebeest Carcasses

**Award** m **Student(s)** Katherine Handler **Grade** 11 **Town** Woodbridge

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

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

3090 LS The Rate of Calcification of Crassostrea Virginica as Calcium Carbonate Levels are Increased

**Award** m **Student(s)** Tatiana Naclerio **Grade** 11 **Town** Easton

- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- \* Mu Alpha Theta --- Certificate, \$50 gift card to Amazon given by CSEF

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

6074 PS Novel Use of Carbonic Anhydrase for Sequestration of Soil Respiration

**Award** m **Student(s)** Grant Worthington **Grade** 11 **Town** Easton

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



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**Shelton** Shelton High School Pamela Petro

3511 LST Clean the Seas: The Effects of Pollutants on Aquatic Life

**Award** m **Student(s)** Courtney Litts **Grade** 10 **Town** Shelton  
 Lauren Pawlowski **Grade** 10 **Town** Shelton

\* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion & Acrylic Award  
 \* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award

**Trumbull** St. Joseph High School Patrick Pardee

6024 PS Quantification of Pollutants Produced by Combustion of Synthetic Versus Fossil Fuels

**Award** m **Student(s)** Kara Cloud **Grade** 11 **Town** Bridgeport

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

**Woodbridge** Amity Regional High School Deborah Day

3506 LST The Effect of Oniscus asellus Activity and Associated Decomposition on Soil Composition and Plant Growth

**Award** m **Student(s)** Haseeb Khan **Grade** 12 **Town** Orange  
 Barak Davidi **Grade** 12 **Town** Woodbridge

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