



Connecticut Science & Engineering Fair

Quinnipiac University

March 14 - 18, 2017

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

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

Middle School

Wilton Middlebrook Middle School Jessica Garcia

2504 L8 A Novel Method for Oil Spill Cleanup Using Biomass

Award 1 Student(s) **Anika Bhagavatula** Grade 8 Town Wilton

- * Pfizer Life Sciences Awards --- 1st Place- Life Sciences 8th grade- \$300 & trophy and Invite to Compete Broadcom MASTERS
- * 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
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Life Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * 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 CSEFF
- * 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

5025 P7 A study on soil product following bio degradation of Styrofoam by tenebrio

Award 2 Student(s) **Cassandra Plank Pinho** Grade 7 Town Danbury

- * Pepsico Physical Sciences Awards --- 4th Place- Physical Sciences 7th Grade Ind. - trophy
- * CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- 3rd Place Middle School - \$100 and Trophy, Medallion
- * Environmental Sciences Awards with CACIWC --- 2nd Place MS- \$200, Trophy, CACIWC gifts
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion
- * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp

Plantsville J.F. Kennedy Middle School Mrs. Pepin

1017 LT Oil Effect On Aquatic Plants

Award 3 Student(s) **Caleigh McDougall** Grade 8 Town Southington
Madison Johnston Grade 8 Town Southington

- * Environmental Sciences Awards with CACIWC --- 3rd Place MS- \$100, Trophy, CACIWC gifts

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean

4025 PT The Clean Drain

Award m Student(s) **William Livesay** Grade 8 Town Woodbridge
Joshua Feuerstein Grade 8 Town Woodbridge
Arnav Paliwal Grade 8 Town Woodbridge

- * Pepsico Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion
- * Barnes Aerospace Applied Technology Awards --- 1st Place Middle School - \$300 and Trophy, Medallion
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- * UTC Aerospace Systems Awards for Excellence in Engineering --- 4th Place- Engineering 8th grade- trophy
- * TurnKey Compliance Solutions Environmental Awards --- \$200 Cash Award Middle School- For excellence in environmental sciences



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Environmental Sciences Awards with CACIWC

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Bethany Amity Reg Middle School - Bethany Campus Kevin Berean
 4001 PT Using Flocculation to Extract Chromium 6 From Water

Award m **Student(s)** Wendy Zhang **Grade 8** **Town** Woodbridge
 Claire Yuan **Grade 8** **Town** Woodbridge

- * Barnes Aerospace Applied Technology Awards --- 2nd Place Middle School - \$200 and Trophy, Medallion
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion

Cheshire St. Bridget School Michelle Carroll
 2014 L7 Which Bioplastic is more Elastic

Award m **Student(s)** Kavin Kathir **Grade 7** **Town** Cheshire

- * Pfizer Life Sciences Awards --- 5rd Place- Life Sciences 7th grade- trophy
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report

Danbury St. Gregory the Great School Mrs. Christine Fahey
 4015 PT The Effect of Temperature on Solar Cells

Award m **Student(s)** Thomas Fahey **Grade 8** **Town** Danbury
 Eric McNamara **Grade 8** **Town** Danbury

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

Danbury Westside Middle School Academy Jonathan Neuhausel
 5531 P8 The Effects of Different Flours on the Breaking Point and Decomposition Rate of an Edible Spoon.

Award m **Student(s)** Sahana Chinthak **Grade 8** **Town** Danbury

- * Pepsico Physical Sciences Awards --- 4th Place- Physical Sciences 8th Grade Ind. - trophy
- * CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- 2nd Place Middle School - \$200 and Trophy, Medallion
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre

New Haven Engineering Science University Magnet School Roger Rushworth
 2510 L8 How do Different Types of Street Lights Impact Our Environment and What is the Safest Way to Illuminate Our Streets?

Award m **Student(s)** Eva Heaphy **Grade 8** **Town** New Haven

- * Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- * Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum
- * Environmental/ Energy Award- Urban Public School Award --- \$100 Award for top environmental or alternative energy project from a New Haven public school



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Stamford Bi-Cultural Day School Christopher Graseck

2025 L7 An Analysis of Nitrogen and Phosphate Fertilizer on Algae Growth

Award m **Student(s)** Anna Lichtenberg **Grade 7** **Town** Stamford

- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- * Project Oceanology --- Junior-Identification guide, t-shirt, 1 week residential summer camp
- * Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash

High School

Waterford Waterford High School Michael O'Connor

3016 LS The Use of Copepods as a Mosquito Control System

Award 1 **Student(s)** Sophie Wang **Grade 11** **Town** Waterford

- * Environmental Sciences Awards with CACIWC --- 1st Place HS- \$500, Plaque, CACIWC gifts
- * University of Connecticut Academic Excellence Scholarship --- Academic Excellence Scholarship - \$6,500 a year for four academic years- (\$26,000 total)
- * Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Life Sciences
- * University of Connecticut Academic Excellence Scholarship --- Academic Excellence Scholarship - \$6,500 a year for four academic years- (\$26,000 total)
- * Fox Pest Control Award for Environmental Management --- \$150 Cash for Excellence in Environmental management

Greenwich Greenwich High School Andrew Bramante

3074 LS Remediation of Beryllium Heavy Metal via Phaseolus vulgaris Hyperaccumulation

Award 2 **Student(s)** Manuel Carballo **Grade 12** **Town** Greenwich

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- 2nd Place HS- \$200, Plaque, CACIWC gifts
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 2nd Place HS Environmental Project

Danbury Danbury High School Karen Lamb

3007 LS Prevention of Zika Virus Infection and Other Mosquito-Borne Diseases Using Environmentally Sound Control Methods

Award 3 **Student(s)** Bradley Kerr **Grade 9** **Town** Danbury

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- Senior High Finalist - Medallion
- * Environmental Sciences Awards with CACIWC --- 3rd Place HS- \$100, Plaque, CACIWC gifts
- * Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3098 LS Developing a Spatial Model of Invasive Spread in Response to Climate Change

Award m **Student(s)** Tomas Koeck **Grade 12** **Town** Fairfield

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



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Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
 3137 LS The Use of a Hydroxybenzene Group Variant, Grapefruit Seed Extract, as an Alternative Natural Pesticide for Contemporary Chemicals in Modern Agriculture

Award m **Student(s)** Kyle Rosenfeld **Grade** 12 **Town** Fairfield

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
 3129 LS Utilizing a Freshwater Bioreactor as an Effective Carbon Dioxide Sequestration Technique

Award m **Student(s)** Daniel Schaefer **Grade** 12 **Town** Stratford

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, air pollution related

Darien Darien High School Mr. Pratt
 6072 PS Finding An Efficient Scalable Gray Water Bioremediation Treatment System

Award m **Student(s)** Courtney Lowe **Grade** 12 **Town** Darien

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Physical Sciences
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Environmental Science

Fairfield Fairfield College Preparatory School Ms. Kiel
 3126 LS An investigation into the use of fruit peel filters to reduce the level of water contamination.

Award m **Student(s)** Jonathan Siveyer **Grade** 12 **Town** Monroe

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * Energize CT/eesmarts Future Sustainability Awards --- 2nd Place High School - \$300 Cash and Plaque
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 2nd Place HS Future Sustainability

Greenwich Brunswick School Dana Montanez
 6083 PS Flow Rate vs. Hydroelectric Kilowatts Produced: A novel approach using Pelton wheels and land-based turbines in an effort to preserve surrounding ecosystems

Award m **Student(s)** Edward Camel **Grade** 11 **Town** Greenwich

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * Yale Science & Engineering Association, Inc. --- Certificate, \$25 gift card to Amazon given by CSEF



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Environmental Sciences Awards with CACIWC

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 [Proj#] [FCat] [Project Title]

Greenwich Brunswick School Dana Montanez
 3525 LST Methylmercury concentrations in Fish Tissue: A comparative analysis of Long Island Sound v. the Atlantic Ocean
Award m **Student(s)** Alberto Delgado **Grade** 10 **Town** Riverside
 Ryan Mulshine **Grade** 10 **Town** Greenwich

- * Pfizer Life Sciences Awards --- 3rd Place - Life Sciences Senior High Team - Plaque
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion

Greenwich Brunswick School Dana Montanez
 3015 LS An Investigation of Natural Alternatives to Chlorine When Treating Microbial-Contaminated Water
Award m **Student(s)** Asher Porphy **Grade** 10 **Town** Harrison

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * Stockholm Junior Water Prize --- Certificate, \$25 gift card to Amazon given by CSEF, possible advance to further competition

Greenwich Greenwich High School Andrew Bramante
 6010 PS Novel Low-Temperature Carbon Capture Using Aqueous Ammonia and Organic Solvents
Award m **Student(s)** Ethan Novek **Grade** 12 **Town** Greenwich

- * Pepsico Physical Sciences Awards --- 1st Place - Physical Sciences Senior High Individual - \$500 & Plaque, trip to compete at Intel ISEF
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * Energize CT/eesmarks Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Plaque, compete at GENIUS Olympiad
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, 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
- * ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
- * 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 Andrew Bramante
 6015 PS Development of a CNT/ZnO/TiO2 membrane for visible-light induced photocatalytic filtration of water-borne organic and bacterial pollutants
Award m **Student(s)** Michelle Xiong **Grade** 11 **Town** Riverside

- * Pepsico Physical Sciences Awards --- 5th Place- Physical Sciences Senior High Individual - Plaque
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * UTC Aerospace Systems Awards for Excellence in Engineering --- Finalist - Engineering Senior High - CSF Medallion
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology Senior High- Trip to compete at Intel ISEF, \$1000 & 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 given by CSEF, possible advance to further competition
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Coherent, Inc. Richard Hart Award for Excellence in Photonics --- \$300 cash, plaque, invitation to lunch and tour Coherent factory



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New Haven Engineering Science University Magnet School Roger Rushworth

3533 LST A Novel Approach Using Biochar in Sand Reactors to Accelerate Biodegradation of Naphthenic Acids in the Process of Bitumen Extraction via Oil Sands

Award **m** Student(s) **Sumanth Kondapalli** Grade 10 Town Milford
Tirth Patel Grade 11 Town New Haven

- * Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High Team- \$300 (split) & Plaque
- * CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- Senior High Finalist - Medallion
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion

Redding CT STEM Fair Deborah Day

3061 LS The Influence of Wildebeest Carcass Inputs on the Diet of Fish in the Mara River

Award **m** Student(s) **Katherine Handler** Grade 12 Town Woodbridge

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion

Redding Joel Barlow High School Dr. Nuzzo

3021 LS The Effect of Different Species of Coprophagous Arthropods on the Reduction of Methane Production from Feces

Award **m** Student(s) **Daniel Brey** Grade 11 Town Redding

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

Trumbull Trumbull High School Steffanie Elkins

3089 LS The Effect of Added External Chemicals on Inhibiting Population Growth of Cyanobacteria Within a Fertilizer-Runoff Environment

Award **m** Student(s) **Arnav Srivastava** Grade 10 Town Trumbull

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