



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

CASE Urban School Challenge Awards with support from Travelers

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

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

Middle School

Danbury Westside Middle School Academy Jonathan Neuhausel

2005 L7 Study of Various Starch-based Biopolymers

Award 1 **Student(s)** Lasya Josyula **Grade** 7 **Town** Danbury

- * Pfizer Life Sciences Awards --- 1st Place- Life Sciences 7th grade- \$200 & trophy and Invitation to Compete Broadcom MASTERS
- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- MS Life Sciences- \$200 / plaque
- * CASE Urban School Challenge Awards with Travelers --- 1st Place Middle School - \$300 and Trophy, Medallion
- * Sustainable Resources and Practices Awards --- 2nd Place Middle School - \$300 Cash and Trophy
- * Connecticut Academy of Science and Engineering Middle School Urban School Challenge Award --- Urban School Challenge 1st MS- \$250 Cash Award, Invite to attend CASE's Annual Mtg & \$500 to School Science Department for Equipment/Supplies
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 7th grade- \$300 & trophy
- * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp
- * **The Karen J. Howell Middle School Award for "Learning and Serving"**
--- The Karen J. Howell Middle School Award for "Learning and Serving" - \$1000 Life Science

Danbury Westside Middle School Academy Mr. Neuhausel

5530 P8 Harvesting Wind From Street Canyons Using A Double Helix Wind Turbine

Award 2 **Student(s)** Jeffrey Osborne **Grade** 8 **Town** Danbury

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
- * CASE Urban School Challenge Awards with Travelers --- 2nd Place Middle School - \$200 and Trophy, Medallion
- * Sustainable Resources and Practices Awards --- 3rd Place Middle School - \$200 Cash and Trophy
- * Urban School Challenge 1st Place Middle School Awards --- Highest Placing 8th grader- GENIUS-Olympiad- \$500 travel stipend
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

Hartford Environmental Sciences Magnet at Mary Hooker Mr Clark

5016 P7 Corked?

Award 3 **Student(s)** Kevin Braunwart **Grade** 7 **Town** Hebron

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion & Acrylic Award
- * CASE Urban School Challenge Awards with Travelers --- 3rd Place Middle School - \$100 and Trophy, Medallion
- * Fred Bailey Memorial Award --- \$250 for innovative research- Hartford Urban Middle School Project



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Hartford Sport and Medical Sciences Academy Marianne Vitali

5005 P7 Natural Plastic

Award 4 **Student(s)** Madison Lee **Grade 7** **Town** Rocky Hill

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 5th Place- Physical Sciences 7th Grade Individual - trophy
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- MS Phys. Sciences- \$300 / plaque
- * CASE Urban School Challenge Awards with Travelers --- 4th Place Middle School - Trophy, Medallion
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * 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
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & trophy
- * ASM Materials Education Foundation --- Certificate & \$50 gift card to Amazon given by CSEF
- * Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre
- * Stanley Lessoff Award for Excellence In Analytical Technique --- \$100 Cash and Plaque
- * Fred Bailey Memorial Award --- \$250 for innovative research- Hartford Urban Middle School Project
- * 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. Jonathan Neuhausel

2049 L7 Effect of Watering Green Vegetable Plants With Chlorophyll-Rich Solutions to Increase Overall Chlorophyll Content

Award 5 **Student(s)** Benjamin Laham **Grade 7** **Town** Danbury

- * CASE Urban School Challenge Awards with Travelers --- 5th Place Middle School - Trophy, Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion & Acrylic Award

Bridgeport Park City Prep Charter School Jonathan Jaekle

5557 P8 Saltifying Shock

Award m **Student(s)** Willow Marks **Grade 8** **Town** Bridgeport

- * CASE Urban School Challenge Awards with Travelers --- Middle School Finalist - Medallion and acrylic award

Danbury Westside Middle School Academy Jonathon Neuhausel

5561 P8 The effect that different ingredient ratios have on the mechanical strength of bioplastics.

Award m **Student(s)** Sanjana Shriram **Grade 8** **Town** Danbury

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- MS Phys. Sciences- \$200 / plaque
- * CASE Urban School Challenge Awards with Travelers --- Middle School Finalist - Medallion and acrylic award
- * ASM Materials Education Foundation --- Certificate & \$50 gift card to Amazon given by CSEF
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related



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New Haven Worthington Hooker School Douglas Jones
 5017 P7 Hot Plop Fizz. Hotter Plop fizz. Hottest Plop Fizz
Award m **Student(s)** Catalina Homann **Grade 7** **Town** New Haven

* CASE Urban School Challenge Awards with Travelers --- Middle School Finalist - Medallion and acrylic award

New Haven Worthington Hooker School Douglas Jones
 4004 PT Salty Electrons
Award m **Student(s)** Juliette Ranelli **Grade 8** **Town** New Haven
 Mei Han **Grade 8** **Town** New Haven

* CASE Urban School Challenge Awards with Travelers --- Middle School Finalist - Medallion and acrylic award



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High School

New Haven Wilbur Cross High School Caroline Dahm

6038 PS Exploring conditions for Struvite precipitation and crystal growth.

Award 1 **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

Windsor Academy of Aerospace and Engineering Dr. Lili Aramli

3042 LS An Electronic Neural Model of the Patellar Reflex Arc

Award 2 **Student(s)** Joshua Snyder **Grade** 11 **Town** Ivoryton

- * CASE Urban School Challenge Awards with Travelers --- 2nd Place High School - \$400 and Plaque, Medallion
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology Senior High- \$200 & plaque
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * John B. Trevor Award in Electrical Engineering --- \$500 cash award for an innovative electronic or electrical project

New Haven Engineering Science University Magnet School Mr. Roger Rushworth

6022 PS An Approach to Converting Pollutant CO2 Emissions into Methanol Fuels to Reduce Environmental Harm from Greenhouse Gases

Award 3 **Student(s)** Prastik Mohanraj **Grade** 9 **Town** Ansonia

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- * CASE Urban School Challenge Awards with Travelers --- 3rd Place High School - \$ 300 and Plaque, Medallion
- * Alternative/Renewable Energy Awards --- 3rd Place High School - \$200 Cash and Plaque
- * Environmental/ Energy Award- Urban Public School Award --- \$100 Award for top environmental or alternative energy project from a New Haven public school

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3114 LS Analyzing the use of Moon Jellyfish, Aurelia aurita, Collagen as a Viable Alternative in Medical Applications

Award 4 **Student(s)** Kylie Fawcett **Grade** 12 **Town** Fairfield

- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- HS Life Sciences- \$250 / plaque
- * CASE Urban School Challenge Awards with Travelers --- 4th Place High School - Plaque, Medallion



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New Haven Engineering Science University Magnet School Roger Rushworth
 3084 LS How do varying kinds of enzymes effect the efficiency of enzymatic hydrolysis on lignocellulic material to produce cellulosic ethanol through fermentation

Award 5 Student(s) Sumanth Kondapalli Grade 9 Town Milford

- * CASE Urban School Challenge Awards with Travelers --- 5th Place High School - Plaque, Medallion
- * Energize CT/eesmarts Future Sustainability Awards --- 2nd Place High School - \$500 Cash and Plaque, Trip to Compete at GENIUS Olympiad, Oswego, NY

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
 6039 PS Triboelectric Series and its relation concerning power generation in Triboelectric Nano generators

Award m Student(s) Randy Kaufman Grade 12 Town Stratford

- * CASE Urban School Challenge Awards with Travelers --- Senior High Finalist - Medallion and acrylic award
- * Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report

New Haven Engineering Science University Magnet School Heather Toothaker
 3016 LS An Evaluation of the Accuracy of an Advanced Nanoribbon Microfluidic System to Measure Cytokine Concentration

Award m Student(s) Lauren Low Grade 11 Town Hamden

- * CASE Urban School Challenge Awards with Travelers --- Senior High Finalist - Medallion and acrylic award
- * Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash

New London Science and Technology Magnet HS Charles Mulligan
 6513 PST Electromagnetism as an alternate source of power?

Award m Student(s) Nathaniel Bland Grade 10 Town New London
 Ethan Barnes Grade 10 Town New London

- * CASE Urban School Challenge Awards with Travelers --- Senior High Finalist - Medallion and acrylic award

New London Science and Technology Magnet HS Mr. Mulligan
 6506 PST Using Heat Sinks In Integrated Photovoltaic Systems To Enhance Hydrogen Production Through Electrolysis

Award m Student(s) John Burnett Grade 10 Town Ledyard
 Austin Huang Grade 10 Town Uncasville

- * CASE Urban School Challenge Awards with Travelers --- Senior High Finalist - Medallion and acrylic award
- * Alternative/Renewable Energy Awards --- 2nd Place High School - \$500 Cash and Plaque, Trip to Compete GENIUS Olympiad, Oswego, NY
- * Constellation, an Exelon Company --- 2nd: \$100.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy



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Windsor Academy of Aerospace and Engineering Dr. Lili Aramli
 3067 LS Improvements in Chemotherapy: The Implementation of HSP90 Inhibitors in the Suppression of Chemoresistance
Award m **Student(s)** Leon Novak **Grade** 12 **Town** Rocky Hill

* CASE Urban School Challenge Awards with Travelers --- Senior High Finalist - Medallion and acrylic award
 * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate