



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

CASE Urban School Challenge Awards with support from Aetna & IBM

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

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

Middle School

Hartford Sport and Medical Sciences Academy Christine Demusz

5508 P8 Natural Plastic: Milk Plastic Biodegradation vs. Commercial Plastic Degradation

Award 1 **Student(s)** Madison Lee **Grade** 8 **Town** Rocky Hill

- * Pepsico Physical Sciences Awards --- 5th Place- Physical Sciences 8th Grade Ind. - trophy
- * CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- 1st Place Middle School - \$300 and Trophy, Medallion
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion
- * UTC Aerospace Systems Awards for Excellence in Engineering --- 1st Place- Engineering 8th grade- \$500 & trophy and Invitation Compete in Broadcom MASTERS
- * 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 --- 2nd Place- Biotechnology 8th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS
- * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related
- * Urban School Challenge 1st Place Middle School Awards --- Highest Placing 8th grader- GENIUS-Olympiad Competition -\$500 travel stipend
- * GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project

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 2 **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

Danbury Westside Middle School Academy Mr. Neuhausel

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

Award 3 **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



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Hartford Environmental Sciences Magnet School at Mary Rebecca Hays

2534 L8 The Effects of Food on Breeding Xiphophorus Herrerii

Award 4 **Student(s)** Natalie Reeves **Grade** 8 **Town** Southington

- * Pfizer Life Sciences Awards --- 5th Place- Life Sciences 8th grade- trophy
- * CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- 4th Place Middle School - Trophy, Medallion
- * Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum

Hamden Hamden Middle School Michelle DeLucia

5545 P8 Constructing a CoreXY Dual Extrusion Fused Filament Fabrication Apparatus

Award 5 **Student(s)** Conner Larocque **Grade** 8 **Town** Hamden

- * Pepsico Physical Sciences Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
- * CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- 5th Place Middle School - Trophy, Medallion
- * Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion
- * UTC Aerospace Systems Awards for Excellence in Engineering --- 2nd Place- Engineering 8th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate
- * IEEE, Connecticut Section --- \$100 Honorable Mention

Bridgeport High Horizons Magnet School Portia Scott-Thiam

2513 L8 Hydroponics vs. Fogponics

Award m **Student(s)** Rebecca Abirached **Grade** 8 **Town** Bridgeport

- * CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner
- * Southeastern New England Marine Educators --- Outstanding project in aquatic Science \$100 award and membership in SENEME - 1st place Junior and t-shirt

Bridgeport Park City Prep Charter School Mr. Jonathan Jaekle

2542 L8 Larva -B-Gone: A Safer Way To Eliminate The Threat of Zika and Other Mosquito Borne Diseases

Award m **Student(s)** Antonios Boudreau **Grade** 8 **Town** Ansonia

- * Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion
- * CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- Middle School Finalist - Medallion
- * Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Life Science

Danbury Westside Middle School Academy Jonathan Neuhausel

5568 P8 Optimizing Fin Design For Compressed Air Water Rockets

Award m **Student(s)** Gryffin Syme **Grade** 8 **Town** Danbury

- * Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- * CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- Middle School Finalist - Medallion



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Hartford Environmental Sciences Magnet School at Mary Rebecca Pearson Hays

2020 L7 pH Filtered Mussels

Award **m** Student(s) **Nathan Hockley** Grade 7 Town Burlington

* CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- Middle School Finalist - Medallion

Meriden ACES Thomas Edison Middle School Todd Solli

5554 P8 The Relationship Between Aerodynamic Shape and Wind Drag

Award **m** Student(s) **Kaya Cook** Grade 8 Town Middletown

* CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- Middle School Finalist - Medallion

* Constellation, an Exelon Company --- 2nd: \$50.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy

* Connecticut College-Physics, Astronomy, & Geophysics Dept. --- \$150 and certificate, Junior Physics & teeshirt

High School

New Haven Wilbur Cross High School Prof. Joshua Gendron

3151 LS A study of circadian genetics and abiotic stress towards sustainable agriculture

Award **1** Student(s) **Maya Geradi** Grade 11 Town New Haven

* Pfizer Life Sciences Awards --- 3rd Place- Life Sciences Senior High- \$200 & Plaque

* CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- 1st Place High School - \$500 and Plaque, Medallion and trip to compete at Intel Int. Sci. & Eng. Fair

* 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 Microbiology

* Connecticut Nurserymen's Foundation, Inc. --- \$200 Cash Award & paid registration to the CT Nursery and Landscape Summer Meeting

Bridgeport Fairchild Wheeler Magnet High School Ms, Warner

6003 PS AN INVESTIGATION INTO THE CAPABILITY OF GRAPHENE TO PRODUCE ELECTRICITY DURING RAINSTORMS AS AN ADDITION TO A TRADITIONAL SOLAR PANEL

Award **2** Student(s) **Steven Siveyer** Grade 10 Town Monroe

* CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- 2nd Place High School - \$400 and Plaque, Medallion

* Energize CT/eesmarts Future Sustainability Awards --- 1st Place High School - \$500 Cash, Plaque, and Trip to Compete I-SWEEEEEP, Houston

* UTC Aerospace Systems Awards for Excellence in Engineering --- Finalist - Engineering Senior High - CSF Medallion

Hamden Hamden High School Sophia Michalatos

3149 LS Permanent Inactivation of the HIV Provirus via CRISPR Gene-Editing

Award **3** Student(s) **Aakshi Agarwal** Grade 12 Town Hamden

* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion

* CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- 3rd Place High School - \$ 300 and Plaque, Medallion



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New Haven Wilbur Cross High School Charlene Woodland

3013 LS Formulation of Gelatin-Hyaluronic Acid Blend Cross-Linked Gels for Potential Tissue Applications: Cost-Effective, Patient Specific, Alternative Treatment of Labral Tears of the Hip

Award 4 **Student(s)** Sophie Edelstein **Grade** 10 **Town** New Haven

- * Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High- \$300 & Plaque, Trip to compete at Intel ISEF
- * CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- 4th Place High School - Plaque, Medallion
- * UTC Aerospace Systems Awards for Excellence in Engineering --- 1st Place- Engineering Senior High- Trip to compete at Intel ISEF, \$500 & plaque,
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology Senior High- \$500 & plaque
- * Otero Family Award --- The Otero Family Award; \$200 cash
- * Lunch with a Patent Attorney --- Lunch with a Patent Attorney
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Biochemistry

New Haven Engineering Science University Magnet School Roger Rushworth

3114 LS A Novel Study on the Membrane Interactions of Bovine Alpha-Lactalbumin and Oleic Acid Complex on Tumor Cells to Induce Lysosomal Cell Apoptosis

Award 5 **Student(s)** Prastik Mohanraj **Grade** 10 **Town** Ansonia

- * CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- 5th Place High School - Plaque, Medallion

Danbury Danbury High School Karen Lamb

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

Award m **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

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



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New Haven Engineering Science University Magnet School Heather Toothaker

6005 PS A Novel Rapid Diagnostic Test for Zika Virus NS1 Protein using Nanoribbon Microfluidics

Award m **Student(s)** Lauren Low **Grade** 12 **Town** Hamden

- * Pepsico Physical Sciences Awards --- 4th Place- Physical Sciences Senior High Individual - Plaque
- * CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- Senior High Finalist - Medallion
- * Barnes Aerospace Applied Technology Awards --- 1st Place High School - \$500 and Plaque, Medallion
- * UTC Aerospace Systems Awards for Excellence in Engineering --- 2nd Place- Engineering Senior High- \$500 & plaque
- * Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * Arthur Mensing Award --- \$1000 cash award for excellence in the physical sciences

Windsor Academy of Aerospace and Engineering Michelle Bellinger

6098 PS Effects of Concentration and Cooling Rate on Microstructural and Macroscopic Properties of Tin-Zinc Binary Alloys

Award m **Student(s)** Jay Aindow **Grade** 12 **Town** Tolland

- * Pepsico Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- Senior High Finalist - Medallion
- * ASM Materials Education Foundation --- Certificate & \$25 gift card to Amazon given by CSEF
- * American Society for Metals - Hartford Chapter --- \$100 Check

Windsor Academy of Aerospace and Engineering Dr. Bellinger

6523 PST Effect of Aerodynamic Leaf Design on Electrical Power Generation via a Network of Vertically Aligned Micro Wind Turbines.

Award m **Student(s)** Chris Rinaldi **Grade** 10 **Town** Enfield
 Vishakh Talanki **Grade** 10 **Town** south windsor
 Jean Pasato **Grade** 10 **Town** Middletown

- * Pepsico Physical Sciences Awards --- 1st Place- Physical Sciences Senior High Team- \$500 (split) & Plaque
- * People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion
- * CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- Senior High Finalist - Medallion
- * Energize CT/eesmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion