



Connecticut Science & Engineering Fair

Quinnipiac University

March 11 - 16, 2019

These judging results are unaudited by the fair's Database Committee. The CSEF reserves the right to correct the listings.

Final Judging Results

CASE - PepsiCo Urban School Challenge Awards with IBM

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

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

Middle School

5509 P8 The Study of Effectiveness of Different Separation Methods in Removing Suspended Microplastics from Water

Award 1 Student(s) **Srishti Ramakrishnan** Grade 8 Town Danbury

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- Middle School \$300 / trophy
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 1st Place Middle School - \$300 and Trophy, Medallion
- * Environmental Sciences Awards with CACIWC --- 3rd Place MS- \$100, Trophy, CACIWC gifts
- * 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 Meeting
- * National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEFF
- * Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Phys Science
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related
- * Urban School Challenge 1st Place Middle School Awards --- Highest Placing 8th grader- GENIUS-Olympiad Competition -\$500 travel stipend (See Sponsor 421)
- * GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project

2531 L8 Improving Fuel Economy

Award 2 Student(s) **David Boudreau Jr** Grade 8 Town Ansonia

- * The Jackson Laboratory Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 2nd Place Middle School - \$200 and Trophy, Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion

5027 P7 DIY WiFi Booster

Award 3 Student(s) **Chase Tomaino** Grade 7 Town Danbury

- * Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 3rd Place Middle School - \$100 and Trophy, Medallion
- * U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate
- * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp

2008 L7 Salty Plants

Award 4 Student(s) **Julia Murphy** Grade 7 Town Stratford

- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 4th Place Middle School - Trophy, Medallion
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology 7th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS



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5540 P8 Saving The Ocean: 700,000 Microplastics at a Time
 Award 5 Student(s) Athena Brown Grade 8 Town New Haven

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 5th Place Middle School - Trophy, Medallion
- * Applied Technology Awards --- 2nd Place Middle School - \$200 and Trophy, Medallion
- * Society of Women Engineers - Hartford Section --- Scientific Calculator

2512 L8 Turmeric as an Antioxidant
 Award m Student(s) Laniyah Schultz Grade 8 Town Bridgeport

- * CASE • PepsiCo Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion
- * U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate

2020 L7 Design, testing, and optimization of Kombucha scoby-based biofilms.
 Award m Student(s) Gabriella Brown Grade 7 Town Danbury

- * The Jackson Laboratory Life Sciences Awards --- 1st Place- Life Sciences 7th grade- \$200 & trophy and Invitation to Compete Broadcom MASTERS
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion
- * Peer-to-Peer Awards --- 7th Grade Life Sciences - \$300 Amazon Gift Card

2523 L8 Impact of Microwave-irradiated Plastic on Microbiological Health Indices
 Award m Student(s) Sharva Karthikeyan Grade 8 Town Danbury

- * CASE • PepsiCo Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion

2024 L7 Molecular Health Indices of the Kalmia Latifolia
 Award m Student(s) Maria Eduarda Sousa Lopes Grade 7 Town Danbury

- * The Jackson Laboratory Life Sciences Awards --- 4th Place- Life Sciences 7th grade- trophy and Invitation Compete in Broadcom MASTERS
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- * Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Life Science
- * Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash



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4028	PT	Do Contaminants Effect the Strength of Concrete at Construction Sites?
Award	m	Student(s) Justin Ho Nicholas Sattan
		Grade 8 Town Suffield
		Grade 8 Town Suffield

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology 8th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS
- * ASM Materials Education Foundation --- Certificate & \$25 gift card given by CSEF
- * Garg Consulting Services Award for Excellence in Construction Engineering --- \$250 cash and plaque

High School

6521	PST	Development of In-situ Fabrication Methods of Martian Construction Material
Award	1	Student(s) Cristian Rodriguez Srikar Godilla
		Grade 12 Town East Hartford
		Grade 12 Town Newington

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 1st Place High School - \$500 and Plaque, Medallion
- * H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering in partnership with CCAT --- \$500 to 1st HS Urban School Challenge Science Department for Equipment/Supplies
- * Arthur Mensing Award --- \$1000 cash award for Excellence in the Physical Sciences

3052	LS	Developing a Functional Tracheal Replacement Graft: Studying the Effects of Graft Stiffness on Host Response
Award	2	Student(s) Sophie Edelstein
		Grade 12 Town New Haven

- * The Jackson Laboratory Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 2nd Place High School - \$400 and Plaque, Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- \$100 & plaque
- * Otero Family Award --- The Otero Family Award; \$200 cash
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Biochemistry
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2019 Invention Convention, May 4



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6074 PS Sorption of Hydrogen Sulfide Contaminates Through Methyl Diethanolamine Doped Ceramic Beads Coupled With a Piperazine Catalyst

Award 3 **Student(s)** Erica Carpenter **Grade** 12 **Town** Trumbull

- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 3rd Place High School - \$ 300 and Plaque, Medallion
- * Future Sustainability Awards --- 1st Place High School - \$500 Cash, Plaque
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Future Sustainability
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Sustainability

6530 PST Optimizing Archimedian screw geometry to increase the energy conversion efficiency of a micro hydropower plant.

Award 4 **Student(s)** Devesh Kakkar **Grade** 11 **Town** South Windsor
 Johnathan Bell **Grade** 11 **Town** Glastonbury

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Team- \$300(split) & Plaque
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 4th Place High School - Plaque, Medallion
- * Collins Aerospace Engineering Awards --- 3rd Place- Engineering Senior High- \$200 & plaque
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * Connecticut Association of Physics Teachers --- \$100 Senior project
- * Environmental / Energy Award- New Haven Public School Award --- \$100 Award for top environmental or alternative energy project from a New Haven public school
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Engineering: Mechanical

3070 LS The Correlation Between Nitrogenous Species and the Aboveground and Belowground Biomass of Spartina alterniflora (common cordgrass) in a restored Salt Marsh, Barn Island, CT

Award 5 **Student(s)** Sara Bouchard **Grade** 11 **Town** Waterford

- * The Jackson Laboratory Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 5th Place High School - Plaque, Medallion
- * Environmental Sciences Awards with CACIWC --- 2nd Place HS- \$200, Plaque, CACIWC gifts
- * Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash
- * Yale Peabody Museum --- One-Year Family Membership to the Yale Peabody Museum
- * Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt & cap, First Place Senior
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 2nd Place HS Environmental Project
- * NYUC Pony Club Equine Award --- \$100 Cash Award or excellence in equine studies
- * Fox Pest Control Award for Environmental Management --- \$150 Cash for Excellence in Environmental Management

3054 LS Molecular Modeling and Analysis of Peptides Derived From the Centipede Scolopendra Subspinipes Mutilans (as a Potential Leukemia Targeted Therapy)

Award m **Student(s)** Sarah Johnson **Grade** 11 **Town** Danbury

- * CASE • PepsiCo Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion



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6063 PS Engineering a Polylectic Biomimetic Micro Aerial Vehicle to Pollinate Flowers
Award m Student(s) Khushi Parikh Grade 9 Town Danbury

- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place High School \$250 / plaque
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion
- * Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Physical Sciences

6004 PS Diagnosing Parkinson's Disease with Artificial Intelligence
Award m Student(s) Akshar Agarwal Grade 12 Town Hamden

- * CASE • PepsiCo Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion
- * Computer Science Awards --- Senior High Finalist - Medallion
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * Biophysical Society --- Biophysics Award- \$100

3020 LS Association of Music Perception and Memory
Award m Student(s) Alexandra Northrup Grade 10 Town New Haven

- * The Jackson Laboratory Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion
- * American Psychological Association --- Certificate, \$25 gift card given by CSEF

6058 PS The Effect of Design Parameters and Operating Conditions on Optimal Energy Conversion and Force Generation in a Magnetohydrodynamic Drive
Award m Student(s) Vishakh Talanki Grade 12 Town South Windsor

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion
- * Applied Technology Awards --- Senior High Finalist - Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR