



Connecticut Science & Engineering Fair

Quinnipiac University

March 9 - 14, 2020

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Final Judging Results

CASE - PepsiCo Urban School Challenge Awards with IBM

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

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

Middle School

2007 L7 Effectiveness of the Organic Polymers for Removing Microplastic in an Aqueous Solution

Award 1 Student(s) Snigtha Mohanraj Grade 7 Town Ansonia

- * PepsiCo / Pfizer Life Sciences Awards --- 1st Place- Life Sciences 7th grade- \$200 & trophy and Invitation to Compete Broadcom MASTERS
- * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- 1st Place Middle School - \$300 and Trophy, Medallion
- * Environmental Sciences Awards with CACIWC --- 1st Place MS - \$300, 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 Meeting
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 7th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- * Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF
- * Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to Awards Night Dinner with guest
- * J.A. Augustine Award --- \$100 for excellence in biology
- * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp
- * TurnKey Compliance Solutions Environmental Awards --- \$200 Cash Award Middle School- For excellence in environmental sciences
- * Broadcom MASTERS --- The Lemelson Early Inventor Prize

5549 P8 Making an Affordable Ozone Sensor and Proofing its Accuracy

Award 2 Student(s) Richard Parker Grade 8 Town danbury

- * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- 2nd Place Middle School - \$200 and Trophy, Medallion
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * Urban School Challenge 1st Place Middle School Awards --- Highest Placing 8th grader- GENIUS-Olympiad Competition -\$800 travel stipend (See Sponsor 421)
- * GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project
- * Dreams Unlimited Award --- \$100 Cash Award + Certificate to each student

2515 L8 The Effect of Habitat Loss on a Cockroaches Stress and Well Being

Award 3 Student(s) Kaitlyn Salvatore Grade 8 Town Danbury

- * PepsiCo / Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 8th grade- \$200 & trophy and Invite to Compete Broadcom MASTERS
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- Middle School \$300 / trophy
- * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- 3rd Place Middle School - \$100 and Trophy, Medallion
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS



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4001	PT	Transforming Ocean Wave Energy to Electrical Energy
Award	4	Student(s) Sujay Chava Atul Shreyas Konda
		Grade 7 Town Ellington Grade 7 Town Cromwell

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
- * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- 4th Place Middle School - Trophy, Medallion
- * Collins Aerospace Engineering Awards --- 1st Place- Engineering Middle School- \$400 & trophy and Invitation Compete in Broadcom MASTERS
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

5526	P8	Harvesting Energy From Rainwater With An Archimedean Screw.
Award	5	Student(s) Ronak Ramesh
		Grade 8 Town Middletown

- * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- 5th Place Middle School - Trophy, Medallion
- * Alternative/Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * Constellation, an Exelon Company --- 1st: \$100.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
- * Connecticut Science Supervisors Association --- \$125 for a middle school project
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

2504	L8	Cigarettes VS Vaping. My project is about how these two different ways of smoking affect your lungs
Award	m	Student(s) Nathan Belinski
		Grade 8 Town bridgeport

- * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion

2520	L8	Citric Acid Synthesis using Aspergillus Niger
Award	m	Student(s) Ava Amatulli
		Grade 8 Town Danbury

- * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion



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2527 L8 Kombucha SCOBY Infused Hydrogels as a Natural Bandaid Stopping the Growth of Escherichia coli
Award m **Student(s)** Ella Brown **Grade** 8 **Town** Danbury

- * PepsiCo / Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 8th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology 8th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS
- * Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School Life Sciences

2502 L8 Tumor Suppression of Agrobacterium tumefaciens in Daucus carota
Award m **Student(s)** Maria Eduarda Sousa **Grade** 8 **Town** Danbury

- * PepsiCo / Pfizer Life Sciences Awards --- 4th Place- Life Sciences 8th grade- trophy and Invitation Compete in Broadcom MASTERS
- * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology 8th grade- trophy

2521 L8 Effects of Magnesium Chloride on Water Quality
Award m **Student(s)** Aryan Pandalai **Grade** 8 **Town** Stamford

- * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion
- * Future Sustainability Awards --- 1st Place Middle School - \$300 Cash and Trophy

High School

6522 PST Effective Augmentation of Urban Wind Energy Harvesters to Increase Electric Power Generation and Environmental Protections
Award 1 **Student(s)** Johnathan Bell **Grade** 12 **Town** Windsor
 Devesh Kakar **Grade** 12 **Town** South Windsor

- * CASE • The Jackson Laboratory 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 --- \$500 to 1st HS Urban School Challenge Science Department for Equipment/Supplies



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6509	PST	Optimization of Energy Production through Active Augmentation of Hydro-Turbine Body and Blade Design.						
Award	2	<table> <tr> <td>Student(s) Avaneesh Sathish</td> <td>Grade 12</td> <td>Town South Windsor</td> </tr> <tr> <td>Nikhlesh Sivakumar</td> <td>Grade 12</td> <td>Town Rocky Hill</td> </tr> </table>	Student(s) Avaneesh Sathish	Grade 12	Town South Windsor	Nikhlesh Sivakumar	Grade 12	Town Rocky Hill
Student(s) Avaneesh Sathish	Grade 12	Town South Windsor						
Nikhlesh Sivakumar	Grade 12	Town Rocky Hill						

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Team- \$300(split) & Plaque
- * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- 2nd Place High School - \$400 and Plaque, Medallion
- * Applied Technology Awards --- 3rd Place High School - \$ 200 and Plaque, Medallion
- * GENIUS Olympiad --- GENIUS Olympiad Competition for HS Environmental, Energy, Ecology, or Biodiversity Project
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

6007	PS	Monitoring Infant Vital Signs Through a Car Seat Embedded Piezoelectric Sensor Network			
Award	3	<table> <tr> <td>Student(s) Gianna Guzzo</td> <td>Grade 12</td> <td>Town Suffield</td> </tr> </table>	Student(s) Gianna Guzzo	Grade 12	Town Suffield
Student(s) Gianna Guzzo	Grade 12	Town Suffield			

- * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- 3rd Place High School - \$ 300 and Plaque, Medallion
- * Applied Technology Awards --- 2nd Place High School - \$300 and Plaque Medallion
- * American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 9-12 project
- * IEEE, Connecticut Section --- \$250 Honors Award -Senior
- * Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

3030	LS	Allelopathic Effects of Invasive Red Macroalga (Grateloupia turuturu) for the Mitigation of Harmful Algal Blooms			
Award	4	<table> <tr> <td>Student(s) Lyle Given</td> <td>Grade 12</td> <td>Town Fairfield</td> </tr> </table>	Student(s) Lyle Given	Grade 12	Town Fairfield
Student(s) Lyle Given	Grade 12	Town Fairfield			

- * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- 4th Place High School - Plaque, Medallion
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion
- * Environmental / Energy Award- Urban Public School Award --- Environmental / Energy Award- Urban Public School Award - \$300

3502	LST	Potential of Ocean Acidification to Interfere with Predator Prey Relationships of Coastal Invertebrates (Carcinus maenas).						
Award	5	<table> <tr> <td>Student(s) Ruby Hoffman Blustajn</td> <td>Grade 9</td> <td>Town Hamden</td> </tr> <tr> <td>Gabriella Spata</td> <td>Grade 9</td> <td>Town New Haven</td> </tr> </table>	Student(s) Ruby Hoffman Blustajn	Grade 9	Town Hamden	Gabriella Spata	Grade 9	Town New Haven
Student(s) Ruby Hoffman Blustajn	Grade 9	Town Hamden						
Gabriella Spata	Grade 9	Town New Haven						

- * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- 5th Place High School - Plaque, Medallion
- * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF



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3011 LS Analysis of the Antimicrobial and Antiproliferative Effects of the Coelomic Fluid of Lumbricus terrestris on E. coli and Yeast.

Award m **Student(s)** Elizabeth Davis **Grade** 12 **Town** Trumbull

* CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion

3028 LS The Effect of Acid Solutions on the Abrasion Resistance, Percussion Resistance, and the weight of a Snail's Shell

Award m **Student(s)** Akheena Fariior-Parcak **Grade** 10 **Town** Quaker Hill

* CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion
 * U.S. Metric Association --- Certificate & \$25 gift card given by CSEF

6060 PS The Effect of Axial Tilt of Hyperboloidal Gears on Mechanical Efficiency

Award m **Student(s)** Aiman-Imran Anuar **Grade** 10 **Town** West Haven

* CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion
 * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
 * Connecticut Association of Physics Teachers --- \$100 Senior project

6016 PS Optimization of Energy Storage of Capacitors with Hydrogel Electrolyte

Award m **Student(s)** Emily Ngo **Grade** 12 **Town** South Windsor

* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
 * CASE • The Jackson Laboratory Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion
 * Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Physical Sciences