



# Connecticut Science & Engineering Fair

## Quinnipiac University

March 12 - 17, 2018

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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

5547	P8	Image Recognition to Diagnose Lyme Disease
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**Award** 1      **Student(s)** Khushi Parikh      **Grade** 8      **Town** Danbury

- \* Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & trophy, invite to compete Broadcom MASTERS
- \* People's United Bank Mathematics Awards - with ATOMIC --- 1st Place Middle School- \$150 from ATOMIC, and Trophy, \$300 from People's United Bank
- \* 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
- \* Computer Science Awards --- 2nd Place Middle School - \$200, Trophy and Medallion
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- \* 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
- \* Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- \* 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
- \* Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

5527	P8	Stormwater Pollution: The Effectiveness of Zeolites in Decreasing Levels of Nitrate in Runoff
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**Award** 2      **Student(s)** Paloma Lenz      **Grade** 8      **Town** Danbury

- \* Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences 8th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS
- \* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- 2nd Place Middle School - \$200 and Trophy, Medallion
- \* Environmental Sciences Awards with CACIWC --- 2nd Place MS- \$200, Trophy, CACIWC gifts
- \* UTC Aerospace Systems Engineering Awards --- 2nd Place- Engineering MS- \$200 & trophy and Invitation Compete in Broadcom MASTERS
- \* Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$500 & trophy and Invitation Compete in Broadcom MASTERS
- \* Association for Women Geoscientists --- Certificate, \$25 gift card to Amazon given by CSEF, possible advance to further competition



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2010 L7 Underwater Battle:The Effect of Pollution on Brine Shrimp  
 Award 3 Student(s) Athena Brown Grade 7 Town New Haven

- \* 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 --- Middle School Finalist - Medallion
- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- 3rd Place Middle School - \$100 and Trophy, Medallion
- \* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- \* Alexion Biotechnology Awards --- 1st Place- Biotechnology 7th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS
- \* Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp
- \* Environmental / Energy Award- New Haven Public School Award --- \$100 Award for top environmental or alternative energy project from a New Haven public school

5011 P7 From Biomass To Biogas  
 Award 4 Student(s) Matilda Pethrick Grade 7 Town Stratford

- \* Lockheed Martin Physical Sciences Awards --- 5th Place- Physical Sciences 7th Grade Individual - trophy
- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- 4th Place Middle School - Trophy, Medallion
- \* Environmental Sciences Awards with CACIWC --- 3rd Place MS- \$100, Trophy, CACIWC gifts
- \* Energize CT/eesmarts Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
- \* Future Sustainability Awards - Eversource /energizeCT --- 3rd Place Middle School - \$100 Cash and Trophy
- \* Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF
- \* Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School, Physical Sciences
- \* Frank J. Link Family Award for Energy Related Research --- Frank J. Link Award for Energy Related Research - \$50

2504 L8 A Study on Angiosperm Xylem Based Sucrose Filtration Systems  
 Award 5 Student(s) Vincent Trombetta Grade 8 Town Danbury

- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- 5th Place Middle School - Trophy, Medallion
- \* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

5557 P8 The Novel Method Of Oil Spill clean up using biomasses  
 Award m Student(s) Alyssa Hall Grade 8 Town Bridgeport

- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion
- \* Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF



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2536 L8 Seed Germination With Different Liquid  
**Award** m **Student(s)** Isabelle Patrick-Oliveira **Grade** 8 **Town** Bridgeport

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

2029 L7 Informal Soldiers  
**Award** m **Student(s)** William Visalga **Grade** 7 **Town** Newington

\* Pfizer 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

2014 L7 Clean up your act  
**Award** m **Student(s)** Josiah Williamson **Grade** 7 **Town** New Haven

\* Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion  
 \* CASE • PepsiCo Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion

1015 LT Eins  
**Award** m **Student(s)** Evangeline Baez **Grade** 8 **Town** New London  
 Estefany Almanzar **Grade** 8 **Town** New London

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

### High School

6501 PST Effect of Experimental Parameters on Forming Prince Rupert's Drops for Maximum Strength and Toughness.  
**Award** 1 **Student(s)** Srikar Godilla **Grade** 11 **Town** Newington  
 Cristian Rodriguez **Grade** 11 **Town** East Hartford

\* Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Team- \$300(split) & Plaque  
 \* CASE • PepsiCo Urban School Challenge Awards with IBM --- 1st Place High School - \$500 and Plaque, Medallion and trip to compete at Intel Int. Sci. & Eng. Fair  
 \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion  
 \* H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering in partnership with CCAT --- Urban School Challenge 1st HS- \$1,000 (split for teams), Invite to CASE Annual Mtg  
 \* 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  
 \* University of Connecticut - Physics Department --- UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificat  
 \* Arthur Mensing Award --- \$1000 cash award for excellence in the physical sciences  
 \* American Society for Metals - Hartford Chapter --- \$100 Check



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6061 PS Synthesis and Separation Of a Chiral Compound In Preparation Of a Positron Emission Tomography (PET) Radiotracer

**Award** 2 **Student(s)** Maya Geradi **Grade** 12 **Town** New Haven

- \* Lockheed Martin Physical Sciences Awards --- 1st Place - Physical Sciences Senior High Individual - \$500 & Plaque, trip to compete at Intel ISEF
- \* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- 2nd Place High School - \$400 and Plaque, Medallion
- \* H. Joseph Gerber Award of Excellence presented by 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

6530 PST Effect of Increasing the Poly(ethylene) Oxide in Bombyx mori Silk Fibroin on Mechanical Properties of the Polymer Blend Systems

**Award** 3 **Student(s)** Alexa Wilson **Grade** 12 **Town** Rocky Hill  
Preksha Gupta **Grade** 12 **Town** Rocky Hill  
Sana Kasmani **Grade** 12 **Town** Rocky Hill

- \* Lockheed Martin Physical Sciences Awards --- 3rd Place - Physical Sciences Senior High Team - Plaque
- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- 3rd Place High School - \$ 300 and Plaque, Medallion
- \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion

6066 PS Undulated Leading-Edge Airfoils in Low to Medium Reynolds Number Regime

**Award** 4 **Student(s)** Keshav Vedula **Grade** 12 **Town** Windsor

- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- 4th Place High School - Plaque, Medallion
- \* UTC Aerospace Systems Engineering Awards --- 1st Place- Engineering Senior High- Trip to compete at Intel ISEF, \$500 & plaque,
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
- \* American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate
- \* Connecticut Association of Physics Teachers --- \$100 Senior project

6068 PS The Utilization of Light Amplification by Stimulated Emission of Radiation in Amalgamating Free-Space Optical Communication and Wireless Power Transmission

**Award** 5 **Student(s)** Julia LaPenna **Grade** 12 **Town** Milford

- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- 5th Place High School - Plaque, Medallion



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6030 PS The Analysis of a Biochar Containment Boom as a Mitigation Technique for Relic Pollutants after Marine Dredging  
Award m Student(s) Ethan Skuches Grade 12 Town Milford

- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion
- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- \* National Oceanic and Atmospheric Administration --- Certificate and medallion, ,and \$25 Amazon gift card given by CSEFF

3059 LS Do rewards affect neuro-electrical resistance?  
Award m Student(s) Carlin Eswarakumar Grade 11 Town New Haven

- \* Pfizer 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 to Amazon given by CSEF
- \* IEEE, Connecticut Section --- \$100 Honorable Mention

3092 LS Implications for Increased Acidity for Metabolic Function of Freshwater Microinvertebrates (Daphnia magna)  
Award m Student(s) Pedro Camacho-Leon Grade 11 Town Norwich

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

6039 PS Natural vs Synthetic Drinks Compared by Electrolyte Concentration  
Award m Student(s) Owen George Grade 10 Town Uncasville

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

3072 LS Seaweed Bio-extraction: Influence of Green Algae (Ulva spp) and Sugar Kelp (Saccharina spp) on Carbon Dioxide Levels in the Atmosphere  
Award m Student(s) Kiera McCord Grade 10 Town Norwich

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