



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

Petit Family Foundation Women in Science & Engineering Awards

[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

2019 L7 Does Dog Saliva Kill Germs & What Else Might?
Award 2 Student(s) Lorraine Hillgen-Santa Grade 7 Town Stratford

- * The Jackson Laboratory Life Sciences Awards --- 3rd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- Middle School- \$200 / trophy
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology 7th grade- trophy
- * Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School Life Sciences

5518 P8 #SAVETHESIP
Award 3 Student(s) Kerry Tuccinardi Grade 8 Town Bethel

- * Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- Middle Schools- \$100 / trophy
- * Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School, Physical Sciences



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4025	PT	Artificial Pancreas to Regulate Blood Sugar Levels		
Award	m	Student(s) Anchal Bahel	Grade 8	Town Woodbridge
		Nina Carmeli	Grade 8	Town Woodbridge

- * Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * ISA - International Society for Automation - Ct. Valley Section --- 1st - \$125 award

5530	P8	Facial Recognition using Raspberry Pi and Python		
Award	m	Student(s) Leah Manke	Grade 8	Town Bozrah

- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * Robert Francoeur Memorial Award --- Creative or innovative project in electrical engineering or computer science by female students - \$200

5523	P8	Building a Better Hearing Aid Using Noise Cancellation		
Award	m	Student(s) Payton Noe	Grade 8	Town East Lyme

- * 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
- * Applied Technology Awards --- 1st Place Middle School - \$300 and Trophy, Medallion
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology 8th grade- trophy and Invitation Compete in Broadcom MASTERS
- * American Society of Safety Professionals, CT Valley Chapter --- \$100 grade 7-8 project
- * IEEE, Connecticut Section --- \$250 Honors Award -Junior
- * Connecticut Academy of Audiology --- \$200 Award HS- For Excellence in Audiology and Acoustics, oport. to shadow an audiologist
- * Broadcom MASTERS --- The Lemelson Early Inventor Prize
- * Zepke Awards --- \$100 - For the Best Use of Electronic Circuitry- Middle School

1002	LT	I'm Dyeing to Find Out		
Award	m	Student(s) Marion Patsalides	Grade 7	Town Manchester
		Shreya Senthil	Grade 7	Town South Windsor

- * The Jackson Laboratory Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion



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High School

3101 LS INVESTIGATING THE EFFICACY OF ALPHA-LIPOIC ACID FOR REDUCING SKIN CANCER
Award 1 Student(s) Athulya Narayanan Grade 12 Town GLASTONBURY

* Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- High School \$500 / plaque

6063 PS Engineering a Polylectic Biomimetic Micro Aerial Vehicle to Pollinate Flowers
Award 2 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

6506 PST Effect of varying shape memory alloys on the folding mechanism of a pollination device and the efficiency of the collection and dispersion using electrostatic forces.
Award 3 Student(s) Gianna Guzzo Grade 11 Town Suffield
Andrea Lacunza Grade 11 Town Avon

* Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- High School- \$150 / plaque
* Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
* ASM Materials Education Foundation --- Certificate & \$25 gift card given by CSEF

6001 PS Enhancing Dye Sensitized Solar Cell Efficiency Through the Application of a Silica Structure Microfilm Layer
Award m Student(s) Camryn Mazerolle Grade 12 Town Shelton

* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
* Alternative/Renewable Energy Awards --- 2nd Place High School - \$300 Cash and Plaque
* GENIUS Olympiad --- GENIUS Olympiad Competition for 2nd Place HS Alternative/Renewable Energy Project
* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Energy & Transportation



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6089 PS Single-Use, Insulative Tableware Made from Cornstarch and a Hydrophobic Edible Thin Film, as a Biodegradable Replacement for Styrofoam

Award **m** Student(s) **Tyler Fox** Grade 11 Town Cos Cob

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Applied Technology Awards --- Senior High Finalist - Medallion
- * Future Sustainability Awards --- High School Finalist - Medallion
- * Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash
- * Connecticut Science Supervisors Association --- \$125 for a high school project
- * Robotics And Beyond --- HS- For Excellence in Material Science- \$200 for Robotics And Beyond STEM Design Camp or Academy

3007 LS Control of Varroa Destructor Infestation with a Dual-function, Thymol-Emitting Honey Bee Hive

Award **m** Student(s) **Raina Jain** Grade 11 Town Riverside

- * The Jackson Laboratory Life Sciences Awards --- 1st Place- Life Sciences Senior High- \$500 & Plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Environmental Sciences Awards with CACIWC --- 1st Place HS- \$500, Plaque, CACIWC gifts
- * Collins Aerospace Engineering Awards --- 1st Place- Engineering Senior High- \$500 & plaque,
- * H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering in partnership with CCAT --- Life Sciences Senior 1st HS- \$1,000, Solid Silver Medal of Excellence, Invite to CASE Annual Mtg
- * Fuss & O'Neill, Inc. --- \$200 Award for Excellence in Alternative/Renewable Energy
- * University of Hartford --- University of Hartford Scholarship- For Excellence in Engineering, Science or Mathematics \$26,000
- * TurnKey Compliance Solutions Environmental Awards --- \$300 Cash Award High School- For excellence in environmental sciences
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Environmental Science
- * University of Connecticut Academic Excellence Scholarship --- Academic Excellence Scholarship - \$6,500 a year for four academic years- (\$26,000 total)
- * Lunch with a Patent Attorney --- Lunch with a Patent Attorney

6017 PS Development of Highly-Efficient, Earth-Abundant Crystalline Perovskite - Carbon Film Solar Cells

Award **m** Student(s) **Anne-Emilie Rouffiac** Grade 11 Town Greenwich

- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Future Sustainability Awards --- High School Finalist - Medallion
- * POWER Engineers --- \$200 for "Excellence in Electrical Engineering- emphasis on Power Electronics" - High School
- * Jon Stone Memorial Award --- \$100 cash for Innovative Engineering



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3061 LS The effect of Deuterium oxide (D2O) on the viability of Coliphage bacteriophages under Low temperatures as a model for stability in live attenuated viral vaccines

Award m Student(s) Annika Morgan Grade 12 Town Redding

- * The Jackson Laboratory Life Sciences Awards --- 4th Place- Life Sciences Senior High- Plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Life Sciences
- * Peer-to-Peer Awards --- High School Life Sciences - \$300 Amazon Gift Card

6040 PS Degree Centrality and Betweenness Centrality: Predicting Viral Videos Based on Social Connectedness

Award m Student(s) Kayla Morgan Grade 11 Town Woodbridge

- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion