



Connecticut Science & Engineering Fair

Quinnipiac University

March 8 - 20, 2021

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

Final Judging Results

Award Legend

Plaque Winners = 1, 2, ...
Medalists = m
Winners = w

Petit Family Foundation Women in Science & Engineering Awards

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

Middle School

2510 L8 COVID-19's Impact on Water Quality in Recreational Areas Along the Long Island Sound Coastline

Award 1 Student(s) Isabella D'Agostino Grade 8 Town New Brittan

- * PepsiCo / Pfizer Life Sciences Awards --- 5th Place- Life Sciences 8th grade- plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- Middle School \$300 / plaque
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- Middle School Finalist - Medallion
- * Environmental Sciences Awards with CACIWC --- 2nd Place MS- \$200, plaque
- * Southeastern New England Marine Educators (SENEME) --- \$100 award and membership in SENEME - 1st Place Junior & T-Shirt
- * Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash

2004 L7 How efficient is aquaponics compared to traditional soil-based farming?

Award 2 Student(s) Sarah Martin Grade 7 Town Bozrah

- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- Middle School- \$200 / plaque
- * Future Sustainability Awards --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- * American Meteorological Society --- Certificate & \$25 gift card given by CSEF
- * U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF
- * National Center for Inquiry Learning --- Danielle & Maggie Award for Imagination - MS \$100

5002 P7 A Covid-19 Social Distancing Device Using a PIR Motion Sensor and a US-100 Ultrasonic Distance Sensor

Award 3 Student(s) Suchita Srinivasan Grade 7 Town Cheshire, CT

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences 7th Grade Ind. - \$100 & plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- Middle Schools- \$100 / plaque
- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * Computer Science Awards --- 1st Place Middle School - \$300, plaque
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- * American Society of Safety Professionals, CT Valley Chapter --- \$100 grade 7-8 project
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * Robert Francoeur Memorial Award --- Creative or innovative project in engineering or computer science by female students - \$200
- * Zepke Awards --- \$100 - For the Best Use of Electronic Circuitry- Middle School
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

2504 L8 Does personality type correlate to types of emotional responses to the Covid-19 pandemic?

Award m Student(s) Kali Kapilotis Grade 8 Town Bozrah

- * PepsiCo / Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 8th grade- \$100 & plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * American Psychological Association --- Certificate, \$25 gift card given by CSEF



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5508 P8 Crystal Current
Award m Student(s) Arden Mauborgne Grade 8 Town Easton

- * Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences 8th Grade Ind. - \$100 & plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * Alternative/Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and plaque
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

2514 L8 Light 'Em Up
Award m Student(s) Maris Chirayil Grade 8 Town Danbury

- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology 8th grade- plaque

5513 P8 Can Diodes Be Used to Reduce the Negative Impacts of Road Salt on Streams?
Award m Student(s) Abigail Quinby Grade 8 Town Windsor

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * Demos R Us Award --- \$200 Cash Award- Clear Execution of Research- 8th Grade
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

5501 P8 Implementation of Metal-Oxide-Induced Agglomeration and Electromagnetic Filtration for Removal of Microplastics
Award m Student(s) Snigtha Mohanraj Grade 8 Town Ansonia

- * Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & plaque, invitation to compete in Broadcom Masters
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- 1st Place Middle School - \$300 and plaque, Medallion
- * Stanley Black & Decker Applied Technology Awards --- 1st Place Middle School - \$300 and Plaque, Medallion
- * Environmental Sciences Awards with CACIWC --- 1st Place MS - \$300, plaque
- * Future Sustainability Awards --- 3rd Place Middle School - \$100 Cash and plaque
- * 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
- * Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 8th grader- Project Oceanology's Ocean Camp
- * TurnKey Compliance Solutions Environmental Awards --- \$200 Cash Award Middle School- For excellence in environmental sciences
- * GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project
- * Environmental / Energy Award- Urban Public School Award --- Environmental / Energy Award- Urban Public School Award - \$431.40



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High School

6087 PS The Hat and the Mouse: A Practical Hands-Free Method to Control a Personal Computer

Award 1 Student(s) Payton Noe Grade 10 Town East Lyme

- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- High School \$500 / plaque
- * Computer Science Awards --- 1st Place High School - \$400, Plaque
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Raytheon Corporation Awards --- \$500, Plaque
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR
- * Dreams Unlimited Award --- \$100 Cash Award + Certificate to each student

3099 LS The Study of Demodex Folliculorum and Demodex Brevis Mite Population and Bacteria Growth in Relation to Wearing a Face Mask

Award 2 Student(s) Ana-Lois Davis Grade 9 Town Broad Brook

- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place High School \$250 / plaque

6033 PS Lego Prosthetic Arm

Award 3 Student(s) Hina Naeem Grade 12 Town Manchester

- * Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- High School- \$150 / plaque
- * Robert Francoeur Memorial Award --- Creative or innovative project in engineering or computer science by female students - \$200

6064 PS VISTA: a device that measures temperature and humidity levels, by using a complex set of algorithms to calculate the temperature variance and heat index of its environment.

Award m Student(s) Sagarika Srinivasan Grade 10 Town Cheshire

- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2

3009 LS Exploring Earthworm Ecotypes: Carbon Source or Sink?

Award m Student(s) Lillian Kane Grade 12 Town Groton

- * PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Future Sustainability Awards --- High School Finalist - Medallion
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology Senior High- \$300 & plaque
- * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- * University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Life Sciences - Co-Op \$100 Gift Certificate



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3018 LS Linking Continued Exposure to E-cigarette Vapor Constituents with Chronic Obstructive Pulmonary Disease
Award m Student(s) Hannah Goldenberg Grade 12 Town Old Greenwich

- * PepsiCo / Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High- \$300 & Plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- plaque

6041 PS Testing an Activated Carbon Cloth Filter to Reduce the Prevalence of Phosphates and Nitrates in the Long Island Sound
Award m Student(s) Abby Barnett Grade 11 Town Darien

- * Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences Senior High Individual - Plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition
- * University of Hartford Scholarships --- University of Hartford Scholarship- For Excellence in Engineering, or Technology, \$27,000
- * Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt & cap, First Place Senior

3086 LS Examining the energy efficiency of variations of Synechocystis nigrescens and Shewanella oneidensis bioinks in biophotovoltaic cells
Award m Student(s) Youngju Jang Grade 11 Town Holbrook

- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF

3004 LS The Use of Pleurotus Ostreatus As Mycoremediation for Poly-Lactic Acid Plastic In Landfills.
Award m Student(s) Alexis Ogrinz Grade 11 Town Easton

- * PepsiCo / Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Future Sustainability Awards --- High School Finalist - Medallion
- * Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF

6007 PS Utilization of Self- Sanitizing Hydraulic Arm for Reduction of Illness Transmission
Award m Student(s) Haley Young Grade 12 Town West Suffield

- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2



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3096 LS The Impact of Essential Oils on Food Preservation Throughout the Fast Food Industry
 Award m Student(s) Zoe Koskinas Grade 12 Town Fairfield

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

6024 PS Development of a Low-Cost, Expandable Boot Aimed to Adjust to Multiple Sizes and Last Multiple Years.
 Award m Student(s) Aditi Chalasani Grade 11 Town Orange

- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * ASM Materials Education Foundation --- Certificate & \$25 gift card given by CSEF
- * University of Connecticut Academic Excellence Scholarship --- Academic Excellence Physical Sci. scholarship - \$7,500 /year, four academic years- (\$30,000 total)
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2020 Invention Convention, May 2