



Connecticut Science & Engineering Fair

Quinnipiac University

March 7 - 19, 2022

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

2509 L8 Copper Contamination of Freshwater sources which pollute and harm the ecosystem and its consumers (Phytoremediation)

Award 1 Student(s) Sophia Vash Grade 8 Town Fairfield CT

- * PepsiCo Life Sciences Awards --- 2nd Place- Life Sciences 8th grade - \$200 & Plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place - Middle School \$300 / Plaque
- * Environmental Sciences Awards with CACIWC --- 3rd Place MS- \$100 and Plaque
- * Fox Pest Control for Environmental Management --- \$150 Cash for Excellence in Environmental Management
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

5505 P8 Design and Testing of an Integrated 360 Degree Pi Camera System for Deep Well Rescue Mission

Award 2 Student(s) Sandhya Sudarsanam Grade 8 Town Danbury

- * Lockheed Martin Physical Sciences Awards --- 4th Place - Physical Sciences 8th Grade Ind. - Plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place - Middle School- \$200 / Plaque
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- 4th Place Middle School - Plaque, Medallion
- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * Computer Science Awards --- 1st Place Middle School - \$300, Plaque
- * Collins Aerospace Engineering Awards --- 2nd Place- Engineering MS- \$200 & Plaque
- * Raytheon Corporation Awards --- \$500, Plaque
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- * IEEE, Connecticut Section --- \$250 Honors Award -Junior
- * Jon Chapis Memorial Award --- John Chapis Spirit of Innovation Award - MS \$100
- * Zepke Awards --- \$100 - For the Best Use of Electronic Circuitry- Middle School
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

5509 P8 A Domestic Violence Alerting Device Comprised of an Analog Sound Level Meter OLED Display and iOS Mobile App built using Swift

Award 3 Student(s) Suchita Srinivasan Grade 8 Town Cheshire

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place - Middle Schools- \$100 / Plaque
- * Collins Aerospace Engineering Awards --- 1st Place- Engineering Middle School- \$400 & Plaque
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Connecticut Academy of Audiology --- \$200 Award MS- For Excellence in Audiology and Acoustics, oport. to shadow an audiologist
- * Robert Francoeur Memorial Award --- Creative or innovative project in engineering or computer science by female students - \$100
- * Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School Student
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS



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4002 PT Measurement Techniques and Mathematical Analysis of Gum Bubbles
 Award m Student(s) Reagan Reid Grade 7 Town Bozrah
 Leah Kozerefski Grade 7 Town Gilman

- * Mathematics Awards --- 1st Place Middle School - \$300 and Plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion

5011 P7 Coding an Affordable Goat Identification System for All Farmers
 Award m Student(s) Avery Fowler Grade 7 Town Cheshire

- * Lockheed Martin Physical Sciences Awards --- 1st Place - Physical Sciences 7th Grade Ind. - \$200 & Plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * EnergizeCT Future Sustainability Awards --- Middle School Finalist - Medallion
- * National Center for Inquiry Learning --- Danielle & Maggie Award for Imagination - MS \$100
- * Dreams Unlimited Award --- \$100 Cash Award + Certificate to each student
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

5514 P8 Model System Design For Technology-Assisted Insulin Regulation
 Award m Student(s) Sydney Borst Grade 8 Town Danbury

- * 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
- * Pfizer Computational Biology and Bioinformatics Awards --- 1st Place Middle School - \$300, Plaque
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- 2nd Place Middle School - \$200 and Plaque, Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology 8th grade - \$200 & Plaque
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project with \$700 stipend
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS

1003 LT Comparing Kale Growth In Hydroponics Versus Potting Soil In Winter
 Award m Student(s) Carys Wilson Grade 7 Town Somers
 Delphine Lamattina Grade 7 Town West Hartford

- * PepsiCo Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * EnergizeCT Future Sustainability Awards --- 2nd Place Middle School - \$200 and Plaque
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 7th grade - \$300 & Plaque
- * Broadcom MASTERS --- Invitation to compete in Broadcom MASTERS



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2012 L7 American Juvenile Horseshoe Crab Aquaculture
 Award m Student(s) **Gianna Giovanelli** Grade 7 Town Westerly

- * PepsiCo Life Sciences Awards --- 3rd Place- Life Sciences 7th grade - \$100 & Plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology 7th grade - Plaque
- * Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF
- * Southeastern New England Marine Educators (SENEME) --- \$100 award and membership in SENEME - 1st Place Junior & T-Shirt
- * Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt & cap, First Place Junior

High School

3005 LS The Effects of Green Tea on β -Amyloid-Induced Alzheimer's Disease in Lymnaea Stagnalis
 Award 1 Student(s) **Avery Woodworth** Grade 12 Town Fairfield

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

6003 PS Flexibility with Flying: Replicable and Attachable Aerial Robot with Multi-Degree-of-Freedom
 Award 2 Student(s) **Siyi Lu** Grade 11 Town Kent

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place - High School \$250 / Plaque
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$96,000 (\$24,000 per year)

6091 PS Designing and Testing an Activated Carbon Cloth Storm Drain Filter to Reduce the Prevalence of Phosphates and Nitrates in the Long Island Sound
 Award 3 Student(s) **Abby Barnett** Grade 12 Town Darien

- * Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place - High School- \$150 / Plaque
- * American Meteorological Society --- Certificate & \$25 gift card given by CSEF
- * Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition
- * Connecticut College-Physics, Astronomy, & Geophysics Dept. --- Senior Award: Certificate, & teeshirt & \$25 Amazon Card from CSEF



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3002 LS Quantifying the interspecific impacts of the native relationships of the Long Island Sound

Award m Student(s) Sarah Davis Grade 12 Town Trumbull

- * PepsiCo Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * CASE • The Jackson Laboratory Urban School Challenge Awards --- 2nd Place High School - \$400 and Plaque, Medallion
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion
- * Banning Family Life Science Award --- For excellence in invasive species research, \$100 cash
- * GENIUS Olympiad --- GENIUS Olympiad Competition for HS Environmental, Energy, Ecology, or Biodiversity Project with \$700 stipend

3008 LS The Effect of Azospirillum lipoferum on the Microbial Recovery of Corn Soil after a Moderate-Intensity Fire

Award m Student(s) Alexandra Hamza Grade 12 Town Manchester

- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CSF Medallion

3041 LS Determining Position Preference of Different Species of Insect Galls in Relation to Each Other on the Solidago altissima

Award m Student(s) Sophia Liu Grade 11 Town Orange

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

6011 PS Application of Soft Robots in Building Collapse Rescues

Award m Student(s) Ann Song Grade 9 Town Farmington

- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * American Society of Safety Professionals, CT Valley Chapter --- \$200 grade 9-12 project
- * IEEE, Connecticut Section --- \$100 Honorable Mention

6081 PS Developing a Machine Learning Algorithm to Accurately Predict Geomagnetic Storms

Award m Student(s) Iris Yan Grade 10 Town Woodbridge

- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- * Westinghouse Electric Company/New England Chapter of North American Young Generation in Nuclear --- 1st place, Excellence in Energy Research, \$100 cash award