



Connecticut Science & Engineering Fair

Quinnipiac University

March 12 - 17, 2018

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

5547 P8 Image Recognition to Diagnose Lyme Disease

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

5027 P7 How Do Variables Impact The Amount of Energy Collected by a Wind Turbine

Award 2 Student(s) Alanna Brady Grade 7 Town Bozrah

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS
- * People's United Bank Mathematics Awards - with ATOMIC --- 3rd Place Middle School - Trophy , \$100 from People's United Bank
- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- Middle School- \$200 / trophy
- * Energize CT/eesmarts Alternative/Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy
- * Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Association for Women Geoscientists --- Certificate & \$25 gift card to Amazon given by CSEF
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, middle school, \$100 cash award
- * Stanley Lessoff Award for Excellence In Analytical Technique --- \$100 Cash and Plaque



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5024 P7 Cure For The Blues: A green, low cost adsorbent for removal of dye from aqueous solutions
Award **3** Student(s) **Anika Ahilan** Grade 7 Town Glastonbury

- * Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS
- * Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- Middle Schools- \$100 / trophy
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- * Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt, First Place Junior
- * Connecticut Science Supervisors Association --- \$125 for a middle school project
- * Jon Stone Memorial Award --- \$150 cash for Innovative Engineering

2506 L8 New Creature in the Sea.
Award **m** Student(s) **Magdalena Swierczek** Grade 8 Town Danbury

- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate

5535 P8 Using Robotics for Investigating Underwater Habitats
Award **m** Student(s) **Morgan Tainter** Grade 8 Town Gilman

- * People's United Bank Mathematics Awards - with ATOMIC --- Middle School Finalist - Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * Computer Science Awards --- Middle School Finalist - Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash
- * Barker Mohandas Awards for Transportation Research --- \$100 Cash & Plaque for Excellence in Transportation Related Research- Middle School
- * Leask/Francoeur Family Awards --- 1st Place Middle School- For innovation electrical engineering or computer science - \$200 cash
- * Dreams Unlimited Award --- \$100 Cash Award + Certificate

2514 L8 Bloom of Doom
Award **m** Student(s) **Melanie Seaman** Grade 8 Town New Fairfield

- * Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- * Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash



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5527 P8 Stormwater Pollution: The Effectiveness of Zeolites in Decreasing Levels of Nitrate in Runoff
Award m 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

2517 L8 Music Therapy APPLIED
Award m Student(s) Ella Ann Woei Grade 8 Town Greenwich

- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * Connecticut Association for the Gifted --- Leonardo Davinci 7-8 Grade \$50 Gift Certificate

2010 L7 Underwater Battle:The Effect of Pollution on Brine Shrimp
Award m 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

2538 L8 The Impact of Antibacterial Soap on Daphnia Magna: Implications for the Environment
Award m Student(s) Anna Lichtenberg Grade 8 Town Stamford

- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion



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High School

6098 PS Cost-Effective and Fully Recycled Filtration of Heavy Metals from Drinking Water Using Used Coffee Grounds Embedded in Discarded Polyurethane Sponges

Award 1 Student(s) Verna Yin 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 --- 1st Place- High School \$500 / plaque
- * Environmental Sciences Awards with CACIWC --- 3rd Place HS- \$100, Plaque, CACIWC gifts
- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash
- * ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
- * Stockholm Junior Water Prize --- Certificate, \$25 gift card to Amazon by CSEF, possible advance to further competition
- * Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to dinner
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Southeastern New England Marine Educators --- \$100 award and membership in SENEME - 1st Place Senior & T-Shirt
- * University of Connecticut Academic Excellence Scholarship --- Academic Excellence Scholarship - \$6,500 a year for four academic years- (\$26,000 total)

3057 LS Detection of Early-Stage Alzheimer's Disease via Hierarchical Classification of Proteomic and Clinical Profiles

Award 2 Student(s) Shobhita Sundaram Grade 12 Town Greenwich

- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place High School \$250 / plaque
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology Senior High- Trip to compete at Intel ISEF, \$1000 & plaque,

3102 LS Echinacea's Effect on Stress Induced Immunodeficiency in Crickets

Award 3 Student(s) Olivia Wallon Grade 12 Town Shelton

- * Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- High School- \$150 / plaque

3009 LS Comparing Biofilm Formation on Naturally Occurring Antimicrobial Nanostructures from *Squalus acanthias*, *Cicadidae* sp., and *Nelumbo nucifera*

Award m Student(s) Mariam Dobosz Grade 12 Town Shelton

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



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6101 PS A natural cooling system for the last mile of vaccine delivery
 Award m Student(s) Tina Ma Grade 11 Town Ellington

- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * University of Hartford --- University of Hartford Scholarship- For Excellence in Engineering, Science or Mathematics \$26,000
- * The Connecticut Technology Council Young Woman Innovation Award --- \$150 Cash Award for Technological Innovation
- * Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a High School student, \$200 cash
- * John S. Kendall Memorial Awards --- \$500 John S. Kendall Award for Excellence In Mechanical Engineering - High School

6051 PS Magnetically-induced, Visual Detection of Trace Arsenic Contaminants in Water Using Fe3O4 Photonic Crystal Structures
 Award m Student(s) Raina Jain Grade 10 Town Greenwich

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & Plaque, trip to compete at Intel ISEF
- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Environmental Sciences Awards with CACIWC --- 1st Place HS- \$500, Plaque, CACIWC gifts
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Environmental Project

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

3029 LS How Water Chemistry Varies Spatially Across Congamond Lake
 Award m Student(s) Brooke Tillotson Grade 11 Town Windsor Locks

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