



Connecticut Science & Engineering Fair

Quinnipiac University

March 12 - 17, 2018

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Final Judging Results

Award Legend

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

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

Middle School

5523 P8 Effect of Spiral Spacing on Conversion Efficiency of Horizontal Axis Spiral Wind Turbine

Award 1 Student(s) Timothy Chen Grade 8 Town Danbury

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
- * UTC Aerospace Systems Engineering Awards --- 1st Place- Engineering Middle School- \$400 & trophy and Invitation Compete in Broadcom MASTERS

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

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

2516 L8 Got Your Back

Award 3 Student(s) Emma Ruccio Grade 8 Town Southington

- * UTC Aerospace Systems Engineering Awards --- 3rd Place- Engineering MS \$100 & trophy and Invitation Compete in Broadcom MASTERS
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology 8th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS
- * Henderson Award --- Certificate and \$25 Amazon Gift Card given by CSF
- * Robotics And Beyond Award for Excellence in Physics- High School and Engineering Design- Middle School --- Middle School- For Excellence in Engineering Design- \$200 for for Robotics And Beyond STEM Design Academy in July

5534 P8 The Rolling Cane

Award m Student(s) Michael Coyne Grade 8 Town Woodbridge

- * Barnes Aerospace Applied Technology Awards --- 3rd Place Middle School - \$100 and Trophy, Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * American Society of Safety Engineers, CT Valley Chapter --- \$100 grade 7-8 project



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UTC Aerospace Systems Awards for Excellence in Engineering

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2030 L7 Hot and Hard Headband
Award m Student(s) Anna Kopec Grade 7 Town Bethel

- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate

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

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

5008 P7 Battery Life
Award m Student(s) Isabella Thomas Grade 7 Town Oxford

- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion



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5531 P8 D.I.Y. Hovercraft: Lift and Propulsion
Award m **Student(s)** Maxwell Barbagallo **Grade** 8 **Town** Sandy Hook

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * John S. Kendall Memorial Awards --- \$300 John S. Kendall Award for Excellence In Mechanical Engineering - Middle School

5512 P8 Slip Hazard Alarm Robot H2OhNoBot
Award m **Student(s)** Theodore Zhang **Grade** 8 **Town** West Hartford

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * IEEE, Connecticut Section --- \$100 Honorable Mention

2009 L7 An Easy and Economic Way of Filtering Salt Water
Award m **Student(s)** Abdulmalik Ajdinowski **Grade** 7 **Town** Windsor Locks

- * Pfizer Life Sciences Awards --- 5rd Place- Life Sciences 7th grade- trophy
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology 7th grade- trophy

High School

6066 PS Undulated Leading-Edge Airfoils in Low to Medium Reynolds Number Regime
Award 1 **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



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6079 PS Ambient Carbon Dioxide Capture and Purified Gas Release Using Asphalt-Waste Derived, Porous Carbon Filtration

Award 2 **Student(s)** Melissa Woo **Grade** 10 **Town** Riverside

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- * UTC Aerospace Systems Engineering Awards --- 2nd Place- Engineering Senior High- \$400 & plaque
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, air pollution related

6516 PST The Effects of Positioning of Micro Vertical Axis Wind Turbines in a Network on Efficiency and Power Output

Award 3 **Student(s)** Chris Rinaldi **Grade** 11 **Town** Enfield
Jean Pasato **Grade** 11 **Town** Middletown
Vishakh Talanki **Grade** 11 **Town** South Windsor

- * Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences Senior High Team- \$500 (split) & Plaque
- * Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- 2nd Place High School - \$300 Cash and Plaque
- * UTC Aerospace Systems Engineering Awards --- 3rd Place- Engineering Senior High- \$200 & plaque
- * Ct Architecture Foundation Award - The William M. Mack, AIA Award --- \$250 Gift Certificate to Barnes and Noble from the Connecticut Architecture Foundation, William M. Mack, AIA Award.

6023 PS Development of a Portable, Kinetic Driven, Ozone Based Water Purification System for Application in Disaster Relief

Award m **Student(s)** Jamielyn Iquina **Grade** 12 **Town** Stratford

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Society of Women Engineers - Hartford Section --- Scientific Calculator

6025 PS Electronic Stethoscope System for Monitoring and Analyzing Bowel Sounds

Award m **Student(s)** Abhi Mohnani **Grade** 11 **Town** Glastonbury

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion
- * Computer Science Awards --- Senior High Finalist - Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Lunch with a Patent Attorney --- Lunch with a Patent Attorney
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Engineering: Electrical



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6082 PS Solar Geoengineering: The Capacity of Aerosols to Reflect Light and Reduce Temperature
 Award m Student(s) Ryan Glanville Grade 10 Town Greenwich

* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion

3040 LS A comparative analysis of the efficiencies of hydroponic and aeroponic systems
 Award m Student(s) William McLaren Grade 10 Town Greenwich

- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card

3064 LS Biomimetic Degradation of Persistent Pollutants Using Common Wax Worm Sakaiensis Bacteria
 Award m Student(s) Bennett Hawley Grade 11 Town Cos Cob

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- \$100 & plaque
- * 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
- * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- * Mystic Aquarium - Sea Research Foundation --- \$100 and 4 Admission Tickets to Mystic Aquarium
- * University of Hartford --- University of Hartford Scholarship- For Excellence in Engineering, Science or Mathematics \$26,000
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related
- * University of Connecticut - Physics Department --- UCONN Early College Experience Program: Life Sciences - Co-Op \$100 Gift Certificate
- * Yale Peabody Museum --- Family "six pack" of free passes to the Yale Peabody Museum

3087 LS Non-Invasive, Low Cost Diagnosis of Chronic Obstructive Pulmonary Disease (COPD) via Smartphone Breath Analysis
 Award m Student(s) Hiba Hussain Grade 10 Town Old Greenwich

- * Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High- \$300 & Plaque, Trip to compete at Intel ISEF
- * Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion



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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

6033 PS Open-source, In-field Smartphone Detection and Mapping of Waterborne Diseases via Time-Based Spectroscopic Sensing with a New 3D Printable Optical Interface

Award m **Student(s)** Nicholas Liu **Grade** 11 **Town** Greenwich

- * Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences Senior High Individual - \$200 & Plaque
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * 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
- * ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
- * The Goodwin-Niering Center for the Environment --- \$100 for "Excellence in Environmental Conservation Studies"
- * Robotics And Beyond Award for Excellence in Physics- High School and Engineering Design- Middle School --- High School- For Excellence in Physics- \$200 for for Robotics And Beyond STEM Design Academy in July
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2018 Invention Convention, April 28

3070 LS Honeybee Melittin Apitherapy for Targeted Cancer Suppression and Decimation

Award m **Student(s)** Dante Minichetti **Grade** 12 **Town** Greenwich

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

3075 LS Design and Fabrication of a Smart, Medicated Gel Bandage to Deliver Antibiotics to a Draining Wound

Award m **Student(s)** Romano Orlando **Grade** 12 **Town** Greenwich

- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- * Society for In Vitro Biology --- Certificate and \$25 Amazon gift card given by CSEF
- * Connecticut Association for the Gifted --- Leonardo Davinci Award 9-12 Grade \$50 Gift Certificate
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2018 Invention Convention, April 28



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6058 PS Remediation of Heavy Metal and Fertilizer-Runoff Contaminants using High Throughput, Silk Nanofiber Biomimetic Multilayer Membranes

Award **m** Student(s) **Nicholas Woo** Grade 11 Town Greenwich

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- * 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
- * Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt, First Place Senior

6017 PS Deep neural network based subspace learning of robotic manipulator workspace mapping

Award **m** Student(s) **Peiyuan Liao** Grade 10 Town Kent

- * Computer Science Awards --- Senior High Finalist - Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion

6522 PST Temperature-Viscosity Relationship in Predicting Seasonal Motor Function

Award **m** Student(s) **Zachary Bachofner** Grade 9 Town North Stonington
Zachary Stock Grade 9 Town North Stonington

- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion

6501 PST Effect of Experimental Parameters on Forming Prince Rupert's Drops for Maximum Strength and Toughness.

Award **m** 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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6533 PST Combinations of Polyethylene Glycol and Silica Nanoparticles as a Dilatant on Shock Absorption and Unequal Shear Transfer Rate

Award **m** Student(s) **Nicolas McMahon** Grade 10 Town Windsor
Emily Ngo Grade 10 Town South Windsor

* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 * Garg Consulting Services Award for Excellence in Transportation Engineering --- \$250 cash and plaque

6517 PST Effect of Adding Reclaimed Polylactic Acid (PLA) to Virgin PLA on the Mechanical Properties

Award **m** Student(s) **Michael Stefano** Grade 12 Town Wethersfield
Jacob Manente Grade 12 Town Southington

* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion

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

Award **m** 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

6523 PST Harnessing ocean wave kinetic energy in an eco-friendly way to generate electricity applying Faraday's law of induction

Award **m** Student(s) **Al-Yaman Zoghol** Grade 9 Town Enfield
Ahmed Zeinalabdin Grade 9 Town Windsor

* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 * ISA - International Society for Automation - Ct. Valley Section --- 2nd - \$75 award

6057 PS The Effectiveness of Ceramic Membranes with a Manganese Oxide Coating in Filtering Dyes from Industrial Wastewater

Award **m** Student(s) **Ella Marin** Grade 10 Town Woodbridge

* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Engineering: Mechanical
 * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Environmental Science