



Connecticut Science & Engineering Fair

Quinnipiac University

March 4 - 16, 2024

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Final Judging Results

Award Legend

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

Engineering Awards

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

Middle School

Greenwich Eastern Middle School Andrew Bramante

5502 P8 Shedding Light on the Prevalence of Harmful Butylated Hydroxytoluene Preservative in Artificially Formulated Dog Foods.

Award 1 **Student(s)** Mackensy Wilson **Grade** 8 **Town** Old Greenwich

- * Pepsico Engineering Awards --- 1st Place- Engineering Middle School- \$300 & trophy
- * Alexion Biotechnology Awards --- 3rd Place Biotechnology 8th grade - \$100 & trophy
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * Wisner Chairman's Award --- \$500 cash & Plaque MS

Bristol St. Matthew School Danielle Persichetti

2002 L7 Which Moisturizer is Best?

Award 2 **Student(s)** Lauren Gillis **Grade** 7 **Town** Bristol

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences 7th grade - CSF Medallion
- * Pepsico Engineering Awards --- 2nd Place- Engineering MS- \$200 & trophy
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

Fairfield Fairfield Woods Middle School Michael Sgoutas

4021 PT Automotive CO2 Emissions Bio-Filtration System

Award 3 **Student(s)** Alexander Majewski **Grade** 7 **Town** Fairfield
Parshwa Shah **Grade** 7 **Town** Fairfield

- * Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion
- * Pepsico Engineering Awards --- 3rd Place- Engineering MS \$100 & trophy

Avon Talcott Mountain Academy John Pellino

5009 P7 The Aura Project: Landing Rockets at a Model Scale

Award m **Student(s)** Kwabena Addai - Boateng **Grade** 8 **Town** East Hartford

- * Connecticut Science Fair Association Physical Science Awards --- 3rd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy
- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * U.S. Air Force --- Certificate & USAF Merchandise Package
- * Christopher T. Borowiec Excellence in Innovation Awards --- \$100 Cash for Excellence in Planetary Science

Stonington St. Michael School Anna-Helene Grossomanides

5008 P7 Expensive Fails or, Long Lasting Nails

Award m **Student(s)** Maeve Nicholas **Grade** 7 **Town** Stonington

- * Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Talcott Mountain Science Center & Academy --- TMSC Founder's Award - Middle School Physical Science - Scholarship to one Summer or Saturday Program at TMSC - Value \$435



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Westport Greens Farms Academy Mathieu Freeman

5014 P7 Novel Radiation Shielding for Radiation Therapy and Arabidopsis on Mars

Award m **Student(s)** Dylan Karpf **Grade** 7 **Town** Westport

- * Connecticut Science Fair Association Physical Science Awards --- 1st Place- Physical Sciences 7th Grade Ind. - \$300 & trophy
- * Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Alexion Biotechnology Awards --- 1st Place Biotechnology 7th grade - \$300 & trophy
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * Astronomical Society of Greater Hartford - The Charles Hammond Award for Excellence in Astronomy --- Junior Project-\$150, subscription to Sky and Telescope, ASGH membership and meeting invitation
- * Electric Boat Management Association Science and Engineering Research Awards --- Top Prize in Nuclear Energy - \$100 Cash for top project that has innovative nuclear applications
- * Demos R Us Awards --- \$150 Cash Award-- Clear Execution of Research- 7th Grade

High School

Windsor The Loomis Chaffee School Koby Osei-Mensah

6044 PS A Deep Semi-Supervised Domain Generalization Approach for Epileptic Seizure Prediction using Electro Encephalography (EEG)

Award 1 **Student(s)** Sunwoo An **Grade** 9 **Town** Seoul

- * Connecticut Science Fair Association Physical Science Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & Plaque
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * Pepsico Engineering Awards --- 1st Place- Engineering Senior High- \$500 & plaque,
- * Alexion Biotechnology Awards --- 2nd Place Biotechnology Senior High - \$300 & plaque
- * MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Innovative Concept Award - \$250

Wallingford Choate Rosemary Hall Andrew Murgio

6525 PST AgriBotanical: An Intelligent Continuum-Maneuver Robot for Monitoring and Managing Arboreal Wild Bee Colonies

Award 2 **Student(s)** Jingyuan Zhang **Grade** 11 **Town** Wallingford
 Xiyin Yang **Grade** 11 **Town** Wallingford

- * Connecticut Science Fair Association Physical Science Awards --- 1st Place- Physical Sciences Senior High Team- \$500 (split) & Plaque
- * Stanley Black & Decker Applied Technology Awards --- 1st Place High School - \$500 and Plaque, Medallion
- * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- * Pepsico Engineering Awards --- 2nd Place- Engineering Senior High- \$300 & plaque
- * MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Applied Principles Award - \$250
- * IEEE, Connecticut Section --- \$250 Honors Award -Senior
- * Arthur & Ruth Mensing Awards --- Mensing Award Excellence in the High School Physical Sciences - \$500



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Wallingford Choate Rosemary Hall Jan Cook

6051 PS Properties of Certain Quadrilaterals of Triangle Centers

Award **3** Student(s) **Kay Yeon Lee** Grade 11 Town Wallingford

- * M&T Bank Mathematics Awards --- High School Finalist - Medallion
- * Pepsico Engineering Awards --- 3rd Place- Engineering Senior High- \$200 & plaque
- * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software, , gift packs, & T-shirt - For Excellence in Mathematics
- * Susan and Stanley Lessoff Memorial --- Susan and Stanley Lessoff Memorial Award - \$250 Cash and Plaque HS

Darien Darien High School Guy Pratt

6064 PS An Investigation of Stone Reusual Construction Techniques Used in the Anasazi Community From 800-1200 AD In Southwestern United States Based on Stone Length-Width Ratios

Award **m** Student(s) **Evelyn Trudel** Grade 12 Town Darien

- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * CT Architecture Foundation - The William M. Mack, AIA Award --- \$250 Amazon Gift Ccard from the Connecticut Architecture Foundation, William M. Mack, AIA Award for Innovation in Building Sustainability.

Greenwich Brunswick School Dana Montanez

3085 LS Chlorophyll's Reflection of Infrared Light as a Method to Determine Overall Health of Phaseolus vulgaris and Solanum lycopersicum

Award **m** Student(s) **Max Lanson** Grade 10 Town New Canaan

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion

Greenwich Greenwich High School Andrew Bramante

6058 PS Detection of Nanoplastics within Complex Environmental and Food Resource Matrices via Machine Learning

Award **m** Student(s) **Henry Jin** Grade 10 Town Greenwich

- * Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Aquarion Water Company --- 1st, \$250.00 Cash - Grade 9-12 For Excellence in Water Quality or Environmental Management

New Haven Engineering and Science University Magnet School Alyssa Anderson

3078 LS Investigating the Relationship Between the Size of Blood Clots, Blood Flow Rate, and Anticoagulants in the Cardiovascular System for the Implementation in Ischemic Stroke Patients

Award **m** Student(s) **Temiladeoluwa Adeniran** Grade 11 Town Seymour

- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion



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New Haven Engineering and Science University Magnet School Alyssa Anderson
 6052 PS Synthesis of Porous Polymer Sponge Matrix using Modified Sodium Alginate Clay Compound for Adsorptive Removal of Microplastics and Oil from Contaminated Water

Award m **Student(s)** Snigtha Mohanraj **Grade** 11 **Town** Ansonia

- * Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 5th Place High School - Plaque, Medallion
- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * U.S. Metric Association --- Certificate & \$25 gift card given by CSEF
- * Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition
- * The Community Foundation for Greater New Haven Ecology, Environmental, and Alternative Energy Research Prize --- Urban Public School Environmental / Energy Award - \$250

Newtown Newtown High School Timothy Dejulio
 3083 LS Using Sunscreen as a way to distribute Beneficial Microorganisms for Corals (BMCs)

Award m **Student(s)** Lydia Cox **Grade** 11 **Town** newtown

- * Pepsico 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) for exemplary 11th grade project

Norwich Norwich Technical High School Aleatha Pelloni
 3129 LS The Application of Amygdalin as an Early Stage Medicinal Cancer Therapy to act as an Accessible Option on a National Scale

Award m **Student(s)** Emerson Alexy **Grade** 12 **Town** Old Saybrook

- * EnergizeCT Technical High School Science & Technology Awards --- Technical High School Finalist - medallion
- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion

South Windsor South Windsor High School Danel Eitel
 6501 PST The Use of Piezoelectric Technology for a more Efficient and Cost-Effective Approach to Electronics Cooling

Award m **Student(s)** Adithya Anand **Grade** 11 **Town** South Windsor
 Jason Thokchom **Grade** 11 **Town** South Windsor

- * Connecticut Science Fair Association Physical Science Awards --- 2nd Place- Physical Sciences Senior High Team- \$300(split) & Plaque
- * EnergizeCT Alternative & Renewable Energy Awards --- High School Finalist - Medallion
- * EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion
- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100



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South Windsor South Windsor High School Danel Eitel
 3534 LST Elements of Ecology, the Institution for Innovation and Environmentally Beneficial Invasive Plant Removal Projects
 Award m Student(s) Srinidhi Karthik Grade 10 Town South Windsor
 Nishigandha Bhambure Grade 10 Town South Windsor

- * EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion
- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion

Trumbull Christian Heritage School Daniel Cote
 6102 PS Vision Through AI: Assisting the Visually Impaired By Building AI Smart Glasses
 Award m Student(s) Daylin Jerome Grade 11 Town Bridgeport

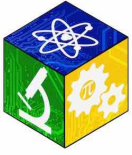
- * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- HS School- Certificate, \$75.00 gift card given by ONR
- * University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Science or mathematics, Grade 11 only - \$30,000 (\$7,500/year)
- * Wisner Chairman's Award --- \$500 cash & Plaque HS
- * Susan and Stanley Lessoff Memorial --- Susan and Stanley Lessoff Memorial Award - \$250 Cash and Plaque HS

Westport Staples High School Amy Parent
 3098 LS The Effect of Diet Composition on the Growth and Development of Colorectal Cancer Tumors in the Drosophila Midgut
 Award m Student(s) William Boberski Grade 11 Town Westport

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion

Windsor Academy of Aerospace and Engineering Michelle Bellinger
 6009 PS Reinforcing the Cybersecurity of Medical Data via Software Countermeasures against Malware in Heart Monitoring Technology
 Award m Student(s) Sujay Chava Grade 11 Town Ellington

- * Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Stanley Black & Decker Applied Technology Awards --- 3rd Place High School - \$ 200 and Plaque, Medallion
- * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Frontiers in Science - Co-Op \$100 Gift Certificate
- * Zepke Awards --- \$125 - For the Best Use of Electronic Circuitry- Senior High



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Woodbridge Amity Regional High School Catherine Piscitelli

6010 PS Creation of an Environment-Adaptive Reaction Algorithm Implemented on a Novel Smart Fluidic Servo Actuator to Provide a Sense of Pseudo-Exproprioception and Exteroception

Award m **Student(s)** Aditi Bhattamishra **Grade** 12 **Town** Orange

- * Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Wisner Memorial Award --- \$ 1000 cash + Silver Bowl (\$2000 cash if a team) High School