



Connecticut Science & Engineering Fair

Quinnipiac University

March 4 - 16, 2024

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

Applied Technology Awards

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

Middle School

Enfield Chiaravalle Academy Tim Coleman

4022 PT Using Solar to Generate Electricity.

Award 1	Student(s) Keenan Cieslak	Grade 8	Town Monson
	Beau Dugas	Grade 8	Town Enfield
	Michael Bielanski	Grade 8	Town Enfield

- * Stanley Black & Decker Applied Technology Awards --- 1st Place Middle School - \$300 and Plaque, Medallion
- * EnergizeCT Alternative & Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
- * IEEE, Connecticut Section --- \$100 Honorable Mention

Windsor Academy of Aerospace and Engineering Michelle Bellinger

4004 PT Integrating Pelton Turbines Into Industrial Pipes to Harvest Energy

Award 2	Student(s) Aaditya Sadhvani	Grade 8	Town Ellington
	Roshan Kumar	Grade 8	Town Ellington

- * Stanley Black & Decker Applied Technology Awards --- 2nd Place Middle School - \$200 and Plaque, Medallion
- * EnergizeCT Alternative & Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- * EnergizeCT Future Sustainability Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- * Zepke Awards --- \$100 - For the Best Use of Electronic Circuitry- Middle School

Greenwich Eastern Middle School Andrew Bramante

2501 L8 Design of a Smart-Bandage to provide lasting Itch-Relief and Healing for an Insect Bite.

Award 3	Student(s) Lily Bittman	Grade 8	Town Greenwich
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- * Life Science Awards with support from Boehringer Ingelheim --- 2nd Place- Life Sciences 8th grade- \$200 & trophy
- * Stanley Black & Decker Applied Technology Awards --- 3rd Place Middle School - \$100 and Plaque, Medallion
- * Alexion Biotechnology Awards --- 2nd Place Biotechnology 8th grade - \$200 & trophy
- * Connecticut Science Supervisors Association --- \$125 for a middle school project

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
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- * 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



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Avon Talcott Mountain Academy John Pellino

2520 L8 The Boreabrush

Award m **Student(s)** Oliver Lind **Grade** 8 **Town** Harwinton

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences 8th grade - CSF Medallion
- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * Lemelson Early Inventor Award --- Certificate & \$100 cash award from Lemelson Foundation

Danbury Westside Middle School Academy Nancy Barlow

4023 PT How do Different Strength Magnets Affect a Phone's Charging Speed

Award m **Student(s)** **Kylie Wilson** **Grade** 8 **Town** Danbury
Caleb Lopes **Grade** 8 **Town** Danbury
Carmelo McCollough **Grade** 8 **Town** Danbury

- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Middle School Finalist - Medallion
- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion

Greenwich Eastern Middle School Andrew Bramante

2512 L8 Emotionless Negotiator Droid

Award m **Student(s)** Louw Otto **Grade** 8 **Town** Riverside

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences 8th grade - CSF Medallion
- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * Infosys Foundation Computer Science Awards --- 2nd Place Middle School - \$200, Trophy

Manchester Saint James School Ellen Oei

5017 P7 Crusty n' Rusty

Award m **Student(s)** Brendan Abbamonte **Grade** 7 **Town** Vernon

- * Connecticut Science Fair Association Physical Science Awards --- 2nd Place- Physical Sciences 7th Grade Ind. - \$200 & trophy
- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners



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High School

Wallingford Choate Rosemary Hall Andrew Murgio

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

Award 1 **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

Woodbridge Amity Regional High School Catherine Piscitelli

6098 PS Modeling Interactions Between the Neocortex and the Basal Ganglia During Temporal Sequential Learning Using a Hierarchical Temporal Memory Artificial Neural Network

Award 2 **Student(s)** Annika Yun **Grade** 12 **Town** Orange

- * Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Pfizer Computational Biology and Bioinformatics Awards --- 1st Place High School - \$500, Plaque
- * Stanley Black & Decker Applied Technology Awards --- 2nd Place High School - \$300 and Plaque Medallion
- * IEEE, Connecticut Section --- \$100 Honorable Mention

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 3 **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

Bethel Bethel High School Raymond Turek

3116 LS The Effect of Disinfecting UVC Light Exposure on Bacteria Content, Transparency and Flexibility of Soft Contact Lens vs. the use of Standard Multi-Purpose Cleansing Solution.

Award m **Student(s)** Zoe Demo **Grade** 12 **Town** Bethel

- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion



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Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
 3102 LS Engineering of a Soybean oil-based natural clothing dye
 Award m Student(s) Alana Reyes Grade 12 Town Trumbull

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
 3134 LS Acoustic Noise Pollution Affecting Reproduction, Communication, and Behavior of Brine Shrimp
 Award m Student(s) Anne Taylor Grade 12 Town Fairfield

- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion
- * Bushnell Center for Performing Arts --- Pair of Tickets to Illuminate Dance - for top project involving technology and lights for Arts Applications, if possible

Greenwich Greenwich High School Andrew Bramante
 3142 LS Development of Non-Invasive Diagnostic Tool for Lipedema Using Colorimetric Analysis of Skin Reflectance
 Award m Student(s) Hannah Dcruz Grade 9 Town Riverside

- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion

New Haven Engineering and Science University Magnet School Roger Rushworth
 3126 LS Advanced Hybrid Water Treatment Systems: A Comparative Study of Membrane Filtration, Adsorption, and Photocatalysis for Comprehensive Contaminant Removal
 Award m Student(s) Saket Aliminate Grade 10 Town Milford

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition

Ridgefield Ridgefield High School Ryan Gleason
 3120 LS The Effect of Plant Based Proteins vs Animal Based Proteins on Sleep Quantity (Soy vs. Beef)
 Award m Student(s) Emily Yee Grade 12 Town Ridgefield

- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion

South Windsor South Windsor High School Kevin Snyder
 6013 PS Scientific understanding of solar physics with image based neural networks
 Award m Student(s) Pragyan Yadav Grade 12 Town South Windsor

- * 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 --- 1st Place High School - \$500, Plaque
- * University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificate



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Wilton Wilton High School Nikolas D'Agnese
 6008 PS Fiscatch: A Phishing Detection Website
Award m **Student(s)** Rohil Jain **Grade** 12 **Town** Wilton

- * Connecticut Science Fair Association Physical Science Awards --- 5th Place- Physical Sciences Senior High Individual - Plaque
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion

Windsor Academy of Aerospace and Engineering Michelle Bellinger
 6002 PS Integrating Piezoelectric Sensors and Photovoltaic Material in an Artificial Energy-Harvesting Model Tree
Award m **Student(s)** Laasya Chintapalli **Grade** 11 **Town** Farmington

- * Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * EnergizeCT Alternative & Renewable Energy Awards --- 2nd Place High School - \$300 Cash and Plaque
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100

Windsor Academy of Aerospace and Engineering Michelle Bellinger
 6079 PS Using Biomimicry to Harvest Energy from the Sinusoidal Motion of an Eel
Award m **Student(s)** Vikram Haran **Grade** 11 **Town** Ellington

- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * EnergizeCT Alternative & Renewable Energy Awards --- 1st Place High School - \$500 Cash and Plaque
- * EnergizeCT Future Sustainability Awards --- 1st Place High School - Plaque & \$700 Stipend to Compete at GENIUS Olympiad
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Future Sustainability

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 m **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



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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

Woodbridge Amity Regional High School Catherine Piscitelli

6091 PS Determining Printed Circuit Board Surface Finish Effect on Signal Loss at High Frequency (5g/6g) Application

Award m **Student(s)** Luke Chang **Grade** 12 **Town** Orange

- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion