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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

2511 L8 Simple, Rapid Detection of Early Maturity-Onset Diabetes of the Young (MODY) via Random-C-Peptide Biomarkers
Award 1 Student(s) Lula Wang Grade 8 Town OLD GREENWICH

- * Life Science Awards with support from Boehringer Ingelheim --- 3rd Place- Life Sciences 8th grade- \$100 & trophy
- * Stanley Black & Decker Applied Technology Awards --- 1st Place Middle School - \$300 and Plaque, Medallion
- * Alexion Biotechnology Awards --- 1st Place Biotechnology 8th grade - \$300 & trophy
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

5506 P8 Improving a Homemade Livestock Identification System for all Farmers
Award 2 Student(s) Avery Fowler Grade 8 Town Cheshire

- * Connecticut Science Fair Association Physical Science Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & trophy
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- Middle School \$300 / trophy
- * Stanley Black & Decker Applied Technology Awards --- 2nd Place Middle School - \$200 and Plaque, Medallion
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * Lemelson Early Inventor Award --- Certificate & \$100 cash award from Lemelson Foundation
- * National Center for Inquiry Learning --- Daniel & Maggie Award for Imagination - MS \$100
- * Robert Francoeur Memorial Awards --- Creative or innovative project in engineering, computer science or mathematics by female students - \$100
- * NYUC Pony Club Equine or Animal Science Award --- \$100 Cash Award or excellence in equine studies

5504 P8 Developing and Quantifying the Strength and Reliability of Soft Robotics Tubing Attachment Methods
Award 3 Student(s) Thomas Gerlach Grade 8 Town Ellington

- * Connecticut Science Fair Association Physical Science Awards --- 5th Place- Physical Sciences 8th Grade Ind. - trophy
- * Stanley Black & Decker Applied Technology Awards --- 3rd Place Middle School - \$100 and Plaque, Medallion
- * Pepsico Engineering Awards --- 2nd Place- Engineering MS- \$200 & trophy
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * Otis Elevator Company --- MS Excellence Award - \$250

5006 P7 Water Works?
Award m Student(s) Shayleigh Barrett Grade 7 Town New Milford

- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * EnergizeCT Alternative & Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy



Connecticut Science & Engineering Fair

Quinnipiac University

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4010	PT	The Benefit of an Automatic Electricity Blocking Device on Preventing Waste of Electricity			
Award	m	Student(s)	Grade	Town	
		Lea Sanchez-Dubois	Grade 8	Danbury	
		Shatarupa Mandal	Grade 8	Danbury	
		Shezan Alladin	Grade 8	Danbury	

- * Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion
- * 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
- * EnergizeCT Future Sustainability Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- * IEEE, Connecticut Section --- \$250 Honors Award – Junior
- * Zepke Awards --- \$100 - For the Best Use of Electronic Circuitry- Middle School
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2023 Invention Convention, June 10

2521	L8	Reducing Food Waste with Early, Visual Detection of Bread-Mold via BODIPY-Colorimetric Card Detection of 1-Octen-3-ol			
Award	m	Student(s)	Grade	Town	
		Amelia Foell	Grade 8	Greenwich	

- * Life Science Awards with support from Boehringer Ingelheim --- 2nd Place- Life Sciences 8th grade- \$200 & trophy
- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * U.S. Metric Association --- Certificate & \$25 gift card given by CSEF
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

4012	PT	Technical and Economic Feasibility of Photovoltaic Window Shades			
Award	m	Student(s)	Grade	Town	
		Shaunak Ukidwe	Grade 8	Suffield	
		Arnav Ukidwe	Grade 8	Suffield	

- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * Constellation Energy --- 2nd: \$50.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
- * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, middle school, \$100 cash award
- * Frank J. Link Family Award for Energy Related Research --- Frank J. Link Award for Energy Related Research - \$50
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2023 Invention Convention, June 10

5002	P7	BlindSight			
Award	m	Student(s)	Grade	Town	
		Arav Gupta	Grade 7	Wilton	

- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- * IEEE, Connecticut Section --- \$100 Honorable Mention



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High School

6016 PS Synthesis and Investigation of Metal Organic Frameworks for the Purpose of Atmospheric Water Harvesting
Award 1 Student(s) Caitlin Tice Grade 10 Town Greenwich

- * Stanley Black & Decker Applied Technology Awards --- 1st Place High School - \$500 and Plaque, Medallion
- * GENIUS Olympiad --- GENIUS Olympiad Competition for HS Environmental, Energy, Ecology, or Biodiversity Project

6011 PS Development of Eco-Navigation System for Reducing Greenhouse Gas Emissions of Ships using Wind-Assisted Flettner Rotors
Award 2 Student(s) Thomas Ewald Grade 11 Town Greenwich

- * Connecticut Science Fair Association Physical Science Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & Plaque
- * Stanley Black & Decker Applied Technology Awards --- 2nd Place High School - \$300 and Plaque Medallion
- * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- * MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Innovative Concept Award - \$250
- * CSEF Board of Directors Award --- Certificate and \$100 given by CSF
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2023 Invention Convention, June 10

6008 PS Concurrent Removal of Rising Soluble Ocean Carbon Dioxide and Oil-in-Water Contaminants via Multi-Functional Remediation Framework.
Award 3 Student(s) Naomi Park Grade 11 Town Riverside

- * Connecticut Science Fair Association Physical Science Awards --- 3rd Place- Physical Sciences Senior High Individual - \$200 & Plaque
- * Stanley Black & Decker Applied Technology Awards --- 3rd Place High School - \$ 200 and Plaque, Medallion
- * EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion
- * Pepsico Engineering Awards --- 1st Place- Engineering Senior High- \$500 & plaque,
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR
- * Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition



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Quinnipiac University

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Applied Technology Awards

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6009 PS Spiral Redirect of Heat Exchange Flow Through a Unique Centrifugal Baffle Coupling
 Award m Student(s) Erika Pinto Grade 12 Town Bridgeport

- * 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
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR
- * Wisner Memorial Award --- \$ 1000 cash + Silver Bowl (\$2000 cash if a team) High School
- * The Community Foundation for Greater New Haven's Milton Fisher Awards for Innovation and Creativity --- For Excellence in Creativity and Innovation by a High School student, \$200 cash
- * Frederick Olender USC Award in Memory of G. Robert Wisner --- \$250 Cash Award for HS student in USC school

3079 LS Footprint Reduction of PET Fiber Waste in Refuse-Environments via Non-Toxic Ideonella Sakaiensis Degradation
 Award m Student(s) Lucy Li Grade 11 Town Greenwich

- * Life Science Awards with support from Boehringer Ingelheim --- 4th Place- Life Sciences Senior High- Plaque
- * 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

6026 PS Using Graphene to Create a Starch-Based 3D Printed Bioplastic that is Thermally and Electrically Conductive
 Award m Student(s) Olivia Ritossa Grade 11 Town Pelham

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

6049 PS Assisting Carbon Neutralization: Automated Energy-saving Controller for Household Appliances
 Award m Student(s) Da Zhuo (Alejandro) Zheng Zhou Grade 11 Town Lakeville

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

6070 PS Development of an Autonomous Device that uses Heart Rate and Vibrational Pulses to Reduce Stress
 Award m Student(s) Sheehan Munim Grade 12 Town Orange

- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * American Psychological Association --- Certificate, \$25 gift card given by CSEF



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6017 PS Optimizing Reinforcement Learning Using Dynamic Environment Manipulation to More Efficiently Train Autonomous Navigation AI

Award m **Student(s)** Aarav Patel **Grade** 11 **Town** Orange

- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$96,000 (\$24,000 per year)
- * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software, , gift packs, & T-shirt - For Excellence in Mathematics