



*These judging results are unaudited by the fair's Database Committee. The CSEF reserves the right to correct the listings.*

**Regular Fair Awards - Finalists**

Sorted by:  
 - Fair Category  
 - Finalist standing in regular fair (1st, 2nd, etc)  
 - Project number

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

**Life Sciences - High School Individual**

**Stamford** King School Victoria Schulman

3048 Knockdown of the essential 23S rRNA methyltransferase, rv3579c, increases the susceptibility of Mycobacterium tuberculosis to macrolides

**Student(s)** Yuriy Sandmeier **Grade** 12 **Town** New Rochelle

- \* Life Science Awards with support from Boehringer Ingelheim --- 1st Place- Life Sciences Senior High- \$500 & Plaque
- \* H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering --- Life Sciences Senior 1st HS- \$1,000, Solid Silver Medal of Excellence, Invite to CASE Annual Mtg
- \* Alexion Biotechnology Awards --- 5th Place Biotechnology Senior High - plaque
- \* Regeneron Biomedical Science Award --- Certificate & \$375.00 cash
- \* Biophysical Society --- Biophysics Award- \$100

**Kent** Kent School Jesse Klingebiel

3045 Cell type-specific expression of the molecular players in mouse prefrontal cortex during cocaine addiction

**Student(s)** Eric Teng **Grade** 11 **Town** San Marino

- \* Life Science Awards with support from Boehringer Ingelheim --- 2nd Place- Life Sciences Senior High- \$300 & Plaque
- \* Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF

**Wallingford** Choate Rosemary Hall Yingxin Gao

3072 Using Machine Learning to Forecast Progression from Mild Cognitive Impairment to Alzheimer's Disease

**Student(s)** Ann Song **Grade** 10 **Town** Farmington

- \* Life Science Awards with support from Boehringer Ingelheim --- 3rd Place- Life Sciences Senior High- \$200 & Plaque

**Greenwich** Greenwich High School Andrew Bramante

3079 Footprint Reduction of PET Fiber Waste in Refuse-Environments via Non-Toxic Ideonella Sakaiensis Degradation

**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

**Greenwich** Greenwich High School Andrew Bramante

3010 Identification of Therapeutics for Neurological Disorders through Development of a Novel Machine Learning System for Predicting Drug-Gene Interactions in the Glymphatic System

**Student(s)** Ashley Malkin **Grade** 10 **Town** Greenwich

- \* Life Science Awards with support from Boehringer Ingelheim --- 5th Place- Life Sciences Senior High- Plaque
- \* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- \* Alexion Biotechnology Awards --- 3rd Place Biotechnology Senior High - \$200 & plaque

**Windsor** The Loomis Chaffee School Koby Osei-Mensah

3002 Classify Liver cancer using Uncertainty-aware CNN

**Student(s)** Qiwu Jiang **Grade** 11 **Town** Windsor

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- \* University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Science or Mathematics, grade 11 only \$28,000 (\$7,000/year)

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

**Wallingford** Choate Rosemary Hall Jan Cook

3007 Development of Buoyant, Lignin-Based Fulvic Acid Supply Device (FASD) to Prevent Ocean Desertification

**Student(s)** Yoon Ha Lee **Grade** 11 **Town** Seoul

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - 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
- \* Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF

**Fishers Island** Fishers Island School Michelle Zimmerlin

3018 Mytilus edulis ability to control harmful algae blooms from nitrogen rich fertilizer and phosphorus rich fertilizer.

**Student(s)** Madeleine Hatfield **Grade** 12 **Town** Mystic

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- High School \$500 / plaque
- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 2nd Place HS- \$300, Plaque
- \* Aquarion Water Company --- 2nd. \$100.00 Cash - Grade 9-12 For Excellence in Water Quality or Environmental Management

**Manchester** Manchester High School Jeffrey Labasi

3019 The Isolation And Identification Of Polystrene Degrading Bacteria From Zophobas Morio

**Student(s)** Paris Bazemore **Grade** 12 **Town** manchester

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* Alexion Biotechnology Awards --- 4th Place Biotechnology Senior High - plaque
- \* Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition

**Windsor** Academy of Aerospace and Engineering Michelle Bellinger

3024 Non-Invasive Pre-screening Approach for Early Detection of The Human Papillomavirus (HPV) to Aid in Cervical Cancer Prevention in Underrepresented Demographics

**Student(s)** Ana-Lois Davis **Grade** 11 **Town** Broad Brook

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* Pfizer Computational Biology and Bioinformatics Awards --- 1st Place High School - \$500, Plaque
- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 1st Place High School - \$500 and Plaque, Medallion
- \* H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering --- Urban School Challenge Senior Division, 1st - \$1,000, Award of Excellence, Invite to CASE Annual Mtg
- \* University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Science or Mathematics, grade 11 only \$28,000 (\$7,000/year)
- \* Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100

**Hamden** Hamden Hall Country Day School Dr. Patrick Fitzgerald

3029 Exfoliated graphite absorption of oil-based contaminants in water

**Student(s)** Ravindu Karunaratne **Grade** 9 **Town** Hamden

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

**Bridgeport** Bridgeport Aquaculture Center Kirk Shadle

3031 Disruption of quorum sensing processes in gram negative bacteria by blocking the AI-2 pathway.

**Student(s)** John Murray **Grade** 12 **Town** southport

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Senior High Finalist - Medallion

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

**Darien** Darien High School David Lewis

3038 Utilization of Decellularized Spinach as a Vascular Perfusion System for Organoid Development

**Student(s)** Avery Horn **Grade** 12 **Town** Darien

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* Alexion Biotechnology Awards --- 2nd Place Biotechnology Senior High - \$300 & plaque

**Wallingford** Choate Rosemary Hall Jan Cook

3040 TopoCan: A Novel Histopathological System for Clinical Prediction with Topology- and Spatial Genome-Informed Deep Learning

**Student(s)** Isabella Wu **Grade** 11 **Town** Wallingford

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* Pfizer Computational Biology and Bioinformatics Awards --- 3rd Place High School - \$200, Plaque
- \* Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF

**Pomfret** Pomfret School Joshua Lake

3049 Detection and Remediation of War Polluted Soil Using Deep Learning Robot and Soil Remediating Bioplastic (BioCore)

**Student(s)** Yuree Oh **Grade** 11 **Town** Seoul

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* Infosys Foundation Computer Science Awards --- 1st Place High School - \$500, Plaque
- \* National Geographic That's Geography! - Cultivating Empathy for the Earth Award --- Certificate & \$100 Cash from Society for Science

**Guilford** Guilford High School Kristie Whitcomb

3066 Sounds of Change: Music Therapy's Effect on Apathy in Parkinson's Disease Patients

**Student(s)** Zachary Neiss **Grade** 12 **Town** Guilford

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- \* Bushnell Center for Performing Arts --- Pair of Tickets to Broadway Show - Tina Turner Musical for top project that is behavioral or social sciences related

**Woodbridge** Amity Regional High School Catherine Piscitelli

3069 Determining the Impact of Certain DNA Repair Function Loss on the Antibiotic Resistance and Persistence Development of E.coli Following Treatment With DNA Topoisomerase Inhibitors

**Student(s)** Annie Zhan **Grade** 12 **Town** Bethany

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

**Woodbridge** Amity Regional High School Catherine Piscitelli

3074 In Vivo Imaging of Structural Connectivity and Synaptic Density in Alzheimer's Disease

**Student(s)** Melinda Lu **Grade** 12 **Town** Woodbridge

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

**Stamford** King School Victoria Schulman

3075 High G/C Content at the 3' End of the Spacer of Prime Editing Guide RNAs Results in Increased Editing Efficiencies

**Student(s)** Benjamin Persily **Grade** 12 **Town** Scarsdale

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

**Hamden** Hamden Hall Country Day School Chris Buckley

3080 MiMe- Mindly Meditation

**Student(s)** Neev Makin **Grade** 9 **Town** Hamden

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

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

**Guilford** Guilford High School Yanjiao Zhou

3088 The impact of gut microbiome on COVID-19 vaccination

**Student(s)** Catherine ZHOU **Grade** 10 **Town** GUILFORD

\* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

**Cheshire** Cheshire High School Julie Barker

3091 Prioritizing candidate disease genes for de novo variants by integrating phenotype information with protein-protein interaction networks

**Student(s)** Shangyu Xu **Grade** 12 **Town** Cheshire

\* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

**Newtown** Newtown High School Timothy DeJulio

3101 The Effect of Placebos and Nocebos on Pain Perception

**Student(s)** Anna White **Grade** 12 **Town** Sandy Hook

\* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

**Redding** CT STEM Fair Catherine Piscitelli

3110 Determining the Effects of Prolonged Starvation on the Survival, Growth, and Development of *Lymantria dispar*

**Student(s)** Sabrina Osowiecki **Grade** 10 **Town** Redding

\* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

\* Banning Family Life Science Award --- For excellence in invasive species research, \$100 cash

**Greenwich** Greenwich Country Day School Nathan Haag

3115 Music and the imagination: how compositional techniques used within film scores help shape the imagination

**Student(s)** Savanna Shettler **Grade** 12 **Town** Danbury

\* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

**Bridgeport** Bridgeport Aquaculture Center Kirk Shadle

3124 Utilizing the Nematocysts of *Cassiopea xamachana* as a Bioactive Antiproliferative Compound

**Student(s)** Grace Kistner **Grade** 12 **Town** Fairfield

\* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

\* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 2nd Place High School - \$300 and Plaque, Medallion

\* Otero Family Award --- The Otero Family Award; \$250 cash

**Darien** Darien High School David Lewis

3127 Analysis of Comprehension Scores of Middle School Students Using Different Forms of Reading (Assisted Reading and Digital Texts)

**Student(s)** Lindsey Darby **Grade** 12 **Town** Darien

\* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion

\* American Psychological Association --- Certificate, \$25 gift card given by CSEF

## Life Sciences - High School Teams

**Greenwich** Brunswick School Dana Montanez

3516 The effects of cable bacteria on reducing methane production in microbial methanogen populations

**Student(s)** Jack Degl **Grade** 10 **Town** Mahopac

Henry Johnson **Grade** 10 **Town** Greenwich

\* Life Science Awards with support from Boehringer Ingelheim --- 1st Place- Life Sciences Senior High Team- \$500 (split) & Plaque

\* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion

\* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF

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

**Greenwich** Brunswick School Dana Montanez

3513 Determining the relationship between sound frequencies and settlement rates in pediveliger oyster larvae to develop oyster-recruitment methods for the restoration of oyster reefs

**Student(s)** **Sebastian DeAngelis** **Grade 11** **Town** Darien

**John Morningstar** **Grade 11** **Town** Greenwich

- \* Life Science Awards with support from Boehringer Ingelheim --- 2nd Place- Life Sciences Senior High Team- \$300 (split) & Plaque
- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 3rd Place HS- \$200, Plaque
- \* Connecticut Academy of Audiology --- \$200 Award - For Excellence in Audiology and Acoustics, opport. to shadow an audiologist

**Greenwich** Brunswick School Dana Montañez

3519 The effects of Light Pollution on the growth and health of stone corals Montipora Capricornia and Oxypora Coral.

**Student(s)** **Grayson O'Hara** **Grade 10** **Town** Rye

**Tucker Spiess** **Grade 10** **Town** Old Greenwich

- \* Life Science Awards with support from Boehringer Ingelheim --- 3rd Place - Life Sciences Senior High Team - Plaque
- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- HS Finalist - CSF Medallion
- \* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion
- \* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF

**Hamden** Hamden Hall Country Day School Frank Gasparro

3515 A model system for the effect of ash produced by wildfire on glacier melting

**Student(s)** **Huiwen Zeng** **Grade 11** **Town** Cheshire

**Jiahui Chen** **Grade 10** **Town** New Haven

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High Team - CSF Medallion

**New Haven** Sound School Charles Mulligan

3520 Potential role of proximity to creek source water on population dynamics of Eastern Oyster (Crassostrea Virginica)

**Student(s)** **Emma Bigman** **Grade 10** **Town** Middlebury

**Sofia Roberts** **Grade 10** **Town** Branford

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High Team - CSF Medallion
- \* National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF

## Life Sciences - Middle School 7th Grade

**Stratford** St. Mark School Alexander Kennedy

2006 The Stroop Effect

**Student(s)** **Julianne Gonzalez** **Grade 7** **Town** Stratford

- \* Life Science Awards with support from Boehringer Ingelheim --- 1st Place- Life Sciences 7th grade- \$300 & trophy
- \* American Psychological 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

**Danbury** Saint Gregory the Great School Mrs. Fahey

2011 effects of inhaling Peppermint aroma on reaction time

**Student(s)** **Piper Twedt** **Grade 7** **Town** Norwalk

- \* Life Science Awards with support from Boehringer Ingelheim --- 2nd Place- Life Sciences 7th grade- \$200 & trophy
- \* Alexion Biotechnology Awards --- 4th Place Biotechnology 7th grade - trophy
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

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

**Avon** Talcott Mountain Academy Doctor Brigette Zacharczenko

2026 What Color Light Is A Cockroach's Favorite?

**Student(s)** Yveson Hsiao **Grade 7** **Town** Farmington

\* Life Science Awards with support from Boehringer Ingelheim --- 3rd Place- Life Sciences 7th grade- \$100 & trophy

**Shelton** Shelton Intermediate School Dr. Erica Napoli

2003 The Fingerprint Powder Experiment

**Student(s)** Gabriella Kuniej **Grade 7** **Town** Shelton

\* Life Science Awards with support from Boehringer Ingelheim --- 4th Place- Life Sciences 7th grade- trophy

**West Hartford** Renbrook School Howard Wright

2024 Is Your Bottled Water Really Worth It?

**Student(s)** Nicolas Waldron **Grade 7** **Town** West Hartford

\* Life Science Awards with support from Boehringer Ingelheim --- 5rd Place- Life Sciences 7th grade- trophy

**Wilton** Middlebrook School Paige Randall

2020 The Power of Your Produce!

**Student(s)** Nadia Khan **Grade 7** **Town** Wilton

\* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences 7th grade - CSF Medallion

\* Alexion Biotechnology Awards --- 3rd Place Biotechnology 7th grade - \$100 & trophy

## Life Sciences - Middle School 8th Grade

**Bethel** Bethel Middle School Jason Maxwell

2533 D.E.R.M.A. (Dermatologic Equipment for Rapid Medical Analysis)

**Student(s)** Toshan Bhattacharya **Grade 8** **Town** Bethel

\* Life Science Awards with support from Boehringer Ingelheim --- 1st Place- Life Sciences 8th grade- \$300 & trophy

\* Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Life Sciences 8th Grade - \$500 and invite to CSTA Award Banquet

\* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

\* National Center for Inquiry Learning --- Daniel & Maggie Award for Imagination - MS \$100

**Greenwich** Central Middle School Andrew Bramante

2521 Reducing Food Waste with Early, Visual Detection of Bread-Mold via BODIPY-Colorimetric Card Detection of 1-Octen-3-ol

**Student(s)** Amelia Foell **Grade 8** **Town** 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

**Greenwich** Eastern Middle School Andrew Bramante

2511 Simple, Rapid Detection of Early Maturity-Onset Diabetes of the Young (MODY) via Random-C-Peptide Biomarkers

**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



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

**Wilton** Middlebrook School Kelly DePiano

2525 Preventing Hypoxia using Magnetism

**Student(s)** Anshika Saagi **Grade 8** **Town** Wilton

- \* Life Science Awards with support from Boehringer Ingelheim --- 4th Place- Life Sciences 8th grade- trophy
- \* Alexion Biotechnology Awards --- 3rd Place Biotechnology 8th grade - \$100 & trophy
- \* Aquarion Water Company --- 2nd. \$50.00 Cash - Grade 7-8 For Excellence in Water Quality or Environmental Management

**New Haven** Engineering and Science University Magnet School Roger Rushworth

2509 Investigating The Effectiveness Of Biochar In Remediating Soil Contamination by Heavy Metals and Hydrocarbons.

**Student(s)** Sahithi Aliminate **Grade 8** **Town** Milford

- \* Life Science Awards with support from Boehringer Ingelheim --- 5th Place- Life Sciences 8th grade- trophy
- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 3rd Place Middle School - \$100 and Trophy, Medallion
- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 3rd Place MS- \$100, Trophy
- \* Alexion Biotechnology Awards --- 4th Place Biotechnology 8th grade- trophy

**Danbury** Saint Gregory the Great School Mrs. Fahey

2516 The effect of fertilizer on hydroponic gardening.

**Student(s)** Connor McMahon **Grade 8** **Town** Brookfield

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences 8th grade - CSF Medallion

**New Haven** Engineering and Science University Magnet School Roger Rushworth

2534 Design and Implementation of a Novel Machine-Learning-Based System Utilizing Feature Extraction for Precise Cervical Cancer Detection via Biopsy Sample

**Student(s)** Ethan Joseph **Grade 8** **Town** West Haven

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences 8th grade - CSF Medallion
- \* Pfizer Computational Biology and Bioinformatics Awards --- 1st Place Middle School - \$300, Trophy
- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 1st Place Middle School - \$300 and Trophy, Medallion
- \* Infosys Foundation Computer Science Awards --- 1st Place Middle School - \$300, Trophy
- \* 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
- \* Alexion Biotechnology Awards --- 2nd Place Biotechnology 8th grade - \$200 & trophy
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- \* The Community Foundation for Greater New Haven's Milton Fisher Awards for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash
- \* Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 8th grader - GENIUS Olympiad Competition with stipend (421)
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project
- \* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2023 Invention Convention, June 10

## Life Sciences - Middle School Teams

**Enfield** Chiaravalle Academy Tim Coleman

1021 Which plant is more efficient at reducing carbon dioxide from the air, through photosynthesis?

**Student(s)** Madeline Agrafojo **Grade 8** **Town** Suffield

Anna Burnham **Grade 8** **Town** Suffield

- \* Life Science Awards with support from Boehringer Ingelheim --- 1st Place- Life Sciences MS Team- \$150 each & trophy
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

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

**Danbury** Westside Middle School Academy Nancy Barlow

1019 The Benefit of the BioBroth Bubbler on Formaldehyde-Infected Air

**Student(s)** **Briti Kaur** **Grade 8** **Town** Danbury  
**Nashla Giron** **Grade 8** **Town** Danbury

- \* Life Science Awards with support from Boehringer Ingelheim --- 2nd Place- Life Sciences MS Team- \$100 each & trophy
- \* American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 7-8 project

**Danbury** Westside Middle School Academy Ms. Barlow

1002 Promoting Outdoors Safety By Altering Pregnancy Tests to Detect Urushiol

**Student(s)** **Alice Tran** **Grade 8** **Town** Danbury  
**Vianca Villacres** **Grade 8** **Town** Danbury  
**Thomas Lazo** **Grade 8** **Town** Danbury

- \* Life Science Awards with support from Boehringer Ingelheim --- 3rd Place- Life Sciences MS Team- trophy
- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 4th Place Middle School - Trophy, Medallion
- \* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- \* American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 7-8 project

**Fairfield** Tomlinson Middle School Ryan Gleason

1012 The effect of water from different sources in fairfield connecticut on the rate of plant growth

**Student(s)** **Calista Gleason** **Grade 8** **Town** Fairfield  
**Emma Speicher** **Grade 8** **Town** Fairfield

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences Middle School Team - CSF Medallion

**Enfield** Chiaravalle Academy Tim Coleman

1016 Recycling Greywater for Plant Growth

**Student(s)** **Delainey Pappas** **Grade 8** **Town** Enfield  
**Hadley Buttrey** **Grade 8** **Town** Windsor Locks  
**Caleb Quinby** **Grade 8** **Town** Windsor

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences Middle School Team - CSF Medallion
- \* EnergizeCT Future Sustainability Awards --- Middle School Finalist - Medallion
- \* Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF

**Waterbury** ACES at Chase Lisa Debany

1020 Strontium Aluminate Begonia

**Student(s)** **Isaiah Smith** **Grade 8** **Town** Meriden  
**Sharon Olabisi** **Grade 8** **Town** Meriden  
**Nevaeh Alfonso** **Grade 8** **Town** Prospect

- \* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences Middle School Team - CSF Medallion



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

## Physical Sciences - High School Individual

**Wallingford** Choate Rosemary Hall Jan Cook

6064 A Self-Stabilizing Haptic Accessibility Mouse for Parkinson's Disease Sufferers

**Student(s)** Jinyuan Zhang **Grade** 10 **Town** Wallingford

- \* Connecticut Science Fair Association Physical Science Awards --- 1st Place - Physical Sciences Senior High Individual - \$500 & Plaque
- \* Pepsico Engineering Awards --- 3rd Place- Engineering Senior High- \$200 & plaque
- \* Quinnipiac University Scholarships --- \$30,000, 4 year scholarship (\$7,500 per year) to Quinnipiac University for HS Student
- \* H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering --- Physical Sciences 1st HS \$1,000, Solid Silver Medal of Excellence, Invite to CASE Annual Mtg
- \* Alexion Biotechnology Awards --- 1st Place Biotechnology Senior High - \$500 & plaque
- \* MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Applied Principles Award - \$250
- \* IEEE, Connecticut Section --- \$250 Honors Award – Senior
- \* Zepke Awards --- \$125 - For the Best Use of Electronic Circuitry- Senior High

**Greenwich** Brunswick School Mrs. Montanez

6011 Development of Eco-Navigation System for Reducing Greenhouse Gas Emissions of Ships using Wind-Assisted Flettner Rotors

**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

**Greenwich** Greenwich High School Mr. Andrew Bramante

6008 Concurrent Removal of Rising Soluble Ocean Carbon Dioxide and Oil-in-Water Contaminants via Multi-Functional Remediation Framework.

**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

**Windsor** Madina Academy Mrs.Sana Farooqi

6063 Investigating the effect of dimpled and tubercled geometries in conjunction on the drag and lift of airfoils.

**Student(s)** Tasneem Zoghoh **Grade** 10 **Town** Enfield

- \* Connecticut Science Fair Association Physical Science Awards --- 4th Place- Physical Sciences Senior High Individual - Plaque
- \* Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place High School \$300 / plaque
- \* U.S. Air Force --- Certificate & USAF Merchandise Paskage
- \* American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate
- \* Vanderbilt Chemicals, LLC --- \$150 Vanderbilt Chemicals Award for Excellence in Tribology and Sustainable Lubrication
- \* University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Frontiers in Science - Co-Op \$100 Gift Certificate
- \* Arthur & Ruth Mensing Award --- Mensing Award Excellence in the High School Physical Sciences - \$500

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

**Stamford** Westhill High School Mr Chandan Sarkar

6066 Investigating the application of statistical word analysis to automatically select controls from the NIST Risk Management Framework

**Student(s)** Rohan Sahu **Grade** 11 **Town** Stamford

- \* Connecticut Science Fair Association Physical Science Awards --- 5th Place- Physical Sciences Senior High Individual - Plaque
- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 3rd Place High School - \$ 200 and Plaque, Medallion

**Windsor** The Loomis Chaffee School Koby Osei-Mensah

6003 Improving Photoelectric Conversion Efficiency of the Solar Cell with Silica-Based-Aerogel-Coated Surface

**Student(s)** Yan Che **Grade** 11 **Town** Shanghai

- \* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* Susan and Stanley Lessoff Memorial --- Susan and StanleyLessoff Memorial Award - \$250 Cash and Plaque HS

**Hamden** Hamden Hall Country Day School Frank Gasparro

6005 Photometry and DNA-psoralen Photochemistry with a Novel LED Source

**Student(s)** Andrei Balas **Grade** 9 **Town** Cheshire

- \* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion

**Bridgeport** Bridgeport Aquaculture Center Kirk Shadle

6009 Spiral Redirect of Heat Exchange Flow Through a Unique Centrifugal Baffle Coupling

**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 Hew 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

**Stamford** King School Victoria Schulman

6036 Environmental Remediation via Photocatalysis for Partial Methane Oxidation and Oil Photodegradation

**Student(s)** Antonia Kolb **Grade** 11 **Town** New Canaan

- \* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* Freeman Family Excellence in Chemistry Awards --- For Excellence in Chemistry or Chemical Engineering by a High School student, \$200 cash

**Litchfield** Wamogo Regional High School Fred Jaquin

6041 Measuring Our Place in the Solar System:

**Student(s)** Ryan Emanuel **Grade** 10 **Town** Morris

- \* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* M&T Bank Mathematics Awards --- 2nd Place High School- \$300 and Plaque
- \* Astronomical Society of Greater Hartford - The Charles Hammond Award for Excellence in Astronomy --- Senior Project-\$150, subscription to Sky and Telescope, ASGH membership and meeting invitation

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

**Bridgeport** Bridgeport Aquaculture Center Kirk Shadle

6052 Using Magnetic Fields to Direct Crystallization of Calcium Carbonate to Emulate the Growth of Trabeculae Post Bone Fracture

**Student(s)** **Jonah Rosenbaum** **Grade** 12 **Town** Fairfield

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

**New Haven** Engineering and Science University Magnet School Roger Rushworth

6079 An Analysis of the Efficient Blockage of RFID Readers Based on the Thickness, Distance, and Density of Each RFID Reader Obstruction Material

**Student(s)** **Nivriith Ananth Iyer** **Grade** 9 **Town** West Haven

- \* 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 --- Senior High Finalist - Medallion
- \* Connecticut College-Physics, Astronomy, & Geophysics Dept. --- Senior Award: Certificate, & teeshirt & \$25 Amazon Card from CSEF

**Woodbridge** Amity Regional High School Catherine Piscitelli

6085 Refining a Novel Pediatric Bionic Ankle Through Empirical Testing and Integration of an Intelligent Fluidic Joint Control Architecture

**Student(s)** **Aditi Bhattamishra** **Grade** 11 **Town** Orange

- \* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* Yale Science & Engineering Association, Inc. --- 1 Certificate, Medallion and 1- \$25 gift card given by CSEF
- \* IEEE, Connecticut Section --- \$100 Honorable Mention

**South Windsor** South Windsor High School Independent

6088 Predicting Solar Storms and Coronal Mass Ejections (CMEs) using novel Attention based Deep Learning algorithms

**Student(s)** **Pragyan Yadav** **Grade** 11 **Town** South Windsor

- \* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$96,000 (\$24,000 per year)

## Physical Sciences - High School Teams

**Brookfield** Brookfield High School Jonathan Neuhausel

6513 ParkBD: A Novel Multi-Modal Deep Learning Framework for Biomarker Identification and Drug Repurposing in Parkinson's Disease

**Student(s)** **Shriya Jonnalagadda** **Grade** 11 **Town** Brookfield

**Diya Girish Kumar** **Grade** 11 **Town** Brookfield

- \* Connecticut Science Fair Association Physical Science Awards --- 1st Place- Physical Sciences Senior High Team- \$500 (split) & Plaque
- \* Infosys Foundation Computer Science Awards --- 2nd Place High School - \$300, Plaque
- \* Lunch with a Patent Attorney --- Lunch with a Patent Attorney

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

**Windsor** Academy of Aerospace and Engineering Michelle Bellinger

6512 Harvesting Energy from the Wind by Combining Piezoelectrics and Turbines.

**Student(s)** **Ronak Ramesh** **Grade** 11 **Town** Middletown  
**Aarush Singh** **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 --- 3rd Place High School - \$200 Cash and Plaque
- \* Constellation Energy --- 2nd: \$100.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy
- \* Connecticut Association of Physics Teachers --- \$100 Senior project
- \* Jon Chapis Memorial Award --- John Chapis Spirit of Innovation Award - HS \$200

**South Windsor** South Windsor High School Patti Stamper

6519 Using organic dyes for a more economical approach to a Dye Sensitized Solar Cell

**Student(s)** **Pranay Kakkar** **Grade** 10 **Town** South Windsor  
**Adithya Anand** **Grade** 10 **Town** South Windsor

- \* Connecticut Science Fair Association Physical Science Awards --- 3rd Place - Physical Sciences Senior High Team - Plaque
- \* MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, high school, \$100 cash award
- \* Frank J. Link Family Award for Energy Related Research --- Frank J. Link Award for Energy Related Research - \$50

**Greenwich** Brunswick School Dana Montanez

6506 Comparative analysis of the most efficient, accessible, and useful gasifiable biomatter

**Student(s)** **Thomas Armstrong** **Grade** 10 **Town** Greenwich  
**Eric Lorenz** **Grade** 10 **Town** Greenwich

- \* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion
- \* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* J.A. Augustine and H. Glista Awards --- \$100 for excellence in physical sciences

**Bridgeport** Fairchild Wheeler Aerospace Mr. Koekkoek

6518 Cerebral Palsy Accessible Keyboard

**Student(s)** **Paul Zint** **Grade** 11 **Town** Shelton  
**Giovanni Gumbs** **Grade** 11 **Town** West Haven

- \* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion

## Physical Sciences - Middle School 7th Grade

**Waterbury** ACES at Chase Anne Pember

5001 Streaky Windows Experiment

**Student(s)** **Andrew Daukas** **Grade** 7 **Town** Middlebury

- \* Connecticut Science Fair Association Physical Science Awards --- 1st Place- Physical Sciences 7th Grade Ind. - \$300 & trophy
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

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

**Manchester** St. James School Ellen Oei

5005 Which Rock is more Porous?

**Student(s)** Nick Grace **Grade 7** **Town** Manchester

- \* Connecticut Science Fair Association Physical Science Awards --- 2nd Place- Physical Sciences 7th Grade Ind. - \$200 & trophy
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- \* Geology/Historic Project of Merit Award --- \$50 - Earth Science - Field work with Geologic or historic value MS

**Pawcatuck** St. Michael School Mrs Grossomanides

5003 Four Fab Fats

**Student(s)** Connor Anderson **Grade 7** **Town** Pawcatuck

- \* Connecticut Science Fair Association Physical Science Awards --- 3rd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy

## Physical Sciences - Middle School 8th Grade

**Greenwich** Central Middle School Andrew Bramante

5507 Demonstrating the Persistence of Long Island Sound Polyaromatic Hydrocarbon (PAH) Contamination

**Student(s)** Bridget Hadden **Grade 8** **Town** Greenwich

- \* Connecticut Science Fair Association Physical Science Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & trophy
- \* Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- Middle School- \$200 / trophy
- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- MS Finalist - CSF Medallion
- \* Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- \* Society of Women Engineers - Hartford Section --- Scientific Calculator

**Cheshire** St. Bridget School Michelle Carroll

5506 Improving a Homemade Livestock Identification System for all Farmers

**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

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

**Avon** Talcott Mountain Academy Hannah Marye

5511 Mitigating the Threat of Microplastics in Drinking Water: The Potential of Coconut Fiber and Activated Coconut Charcoal as Sustainable Filtration Materials

**Student(s)** Rhea Doshi **Grade 8** **Town** Farmington

- \* Connecticut Science Fair Association Physical Science Awards --- 3rd Place- Physical Sciences 8th Grade Ind, - \$100 & trophy
- \* Pepsico Engineering Awards --- 1st Place- Engineering Middle School- \$300 & trophy
- \* Quinnipiac University Scholarships --- \$30,000, 4 year scholarship (\$7,500 per year) to Quinnipiac University for MS Student
- \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- \* Society of Women Engineers - Hartford Section --- Scientific Calculator
- \* Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100

**Bozrah** Fields Memorial School Joshua Fish

5505 Porosity, Permeability Rates, and Water Movement Through Various Commercial Crushed Rock Sizes as it Relates to Drainage Rock in the Excavation Trade

**Student(s)** Leah Kozerefski **Grade 8** **Town** Gilman

- \* Connecticut Science Fair Association Physical Science Awards --- 4th Place- Physical Sciences 8th Grade Ind. - trophy
- \* M&T Bank Mathematics Awards --- 1st Place Middle School- \$300 and Trophy
- \* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- \* Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF
- \* Connecticut College-Physics, Astronomy, & Geophysics Dept. --- Junior Award: Certificate, & teeshirt & \$25 Amazon Card from CSEF
- \* Society of Women Engineers - Hartford Section --- Scientific Calculator

**Ellington** Ellington Middle School Krista Brogle

5504 Developing and Quantifying the Strength and Reliability of Soft Robotics Tubing Attachment Methods

**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

**Trumbull** Christian Heritage School Nicole Blaskewicz

5502 How Ice vs. No Ice Affects a Stirling Engine

**Student(s)** Charles Orban **Grade 8** **Town** Norwalk

- \* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- \* Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- \* IEEE, Connecticut Section --- \$100 Honorable Mention
- \* John S. Kendall Memorial --- \$300 John S. Kendall Award for Excellence In Mechanical Engineering - Second Place
- \* Susan and Stanley Lessoff Memorial --- Susan and StanleyLessoff Memorial Award - \$250 Cash and Plaque MS



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

### Physical Sciences - Middle School Teams

**Bridgeport** High Horizons Magnet School Daria Collins

4006 Horror of Waves

**Student(s)** **Kelci Keddo** **Grade 8** **Town** Bridgeport  
**Benardette Kudaisi** **Grade 8** **Town** Bridgeport

- \* Connecticut Science Fair Association Physical Science Awards --- 1st Place- Physical Sciences MS Team- \$150 each & trophy
- \* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge 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

**Danbury** Westside Middle School Academy Nancy Barlow

4001 Testing the Absorbency of Different Hydrophobic Fibers with Different Oil Samples

**Student(s)** **Jasmine De Sousa** **Grade 8** **Town** Danbury  
**Juliana Watson** **Grade 8** **Town** Danbury  
**Ellie Moore** **Grade 8** **Town** Danbury

- \* Connecticut Science Fair Association Physical Science Awards --- 2nd Place- Physical Sciences MS Team- \$100 each & trophy
- \* Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- MS Finalist - CSF Medallion

**Danbury** Westside Middle School Academy Nancy Barlow

4007 Fueling a Stirling Engine From a Cold Energy Source (Ice Cubes)

**Student(s)** **Aaliyah Taft** **Grade 7** **Town** Danbury  
**Jessica McDermott** **Grade 7** **Town** Danbury

- \* Connecticut Science Fair Association Physical Science Awards --- 3rd Place- Physical Sciences MS Team- trophy
- \* EnergizeCT Alternative & Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy

**Bridgeport** Black Rock School Tejas Godbole

4003 Solar Powered Charger

**Student(s)** **Nilah DeJesus** **Grade 8** **Town** Bridgeport  
**Karina Conde** **Grade 8** **Town** Bridgeport

- \* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion
- \* EnergizeCT Alternative & Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy
- \* Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- \* Constellation Energy --- 1st: \$100.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy

**Danbury** Westside Middle School Academy Ms. Barlow

4004 What is the Effect of Grass Height on Flammability?

**Student(s)** **Adriana Dickinson** **Grade 8** **Town** Danbury  
**Emma Reda** **Grade 8** **Town** Danbury  
**Hailey Sanchez** **Grade 8** **Town** 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

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

**Danbury** Westside Middle School Academy Nancy Barlow

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