



Connecticut Science & Engineering Fair

Quinnipiac University

March 15 - 19, 2016

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

Final Judging Results

Barnes Aerospace Applied Technology Awards

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

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

Middle School

Branford CT Experiential Learning Center (CELC) Melinda Alcosser

4039 PT BullyCheck - Designing Anti-Bullying Software

Award 1 **Student(s)** Sue Hemingway **Grade 8** **Town** Branford
Sophie Burdick **Grade 7** **Town** Deep River

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 2nd Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
- * Barnes Aerospace Applied Technology Awards --- 1st Place Middle School - \$300 and Trophy, Medallion
- * **The Karen J. Howell Middle School Award for "Learning and Serving"**
--- The Karen J. Howell Middle School Award for "Learning and Serving" - \$1000 Physical Science

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean

5567 P8 The Hand-Writer Helper

Award 2 **Student(s)** Michael Baitch **Grade 8** **Town** Woodbridge

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 3rd Place- Physical Sciences 8th Grade Ind, - \$100 & trophy, invite to compete Broadcom MASTERS
- * Barnes Aerospace Applied Technology Awards --- 2nd Place Middle School - \$200 and Trophy, Medallion
- * Talcott Mountain Science Center --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Phys Science
- * Lunch with a Patent Attorney --- Lunch with a Patent Attorney
- * Jon Stone Memorial Award --- \$150 cash for Innovative Engineering
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"
- * John S. Kendall Memorial Awards --- \$300 John S. Kendall Award for Excellence In Mechanical Engineering - Middle School

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean

4001 PT Emergency Oil Spill Robot

Award 3 **Student(s)** Victor You **Grade 8** **Town** Woodbridge
Benjamin Goldstein **Grade 8** **Town** Woodbridge
Ryan Kelley **Grade 8** **Town** Woodbridge

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion & Acrylic Award
- * Barnes Aerospace Applied Technology Awards --- 3rd Place Middle School - \$100 and Trophy, Medallion
- * National Oceanic and Atmospheric Administration --- Certificate and medallion, ,and \$50 gift card to Amazon given by CSEF



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Barnes Aerospace Applied Technology Awards

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

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean
 4009 PT The TempBot
Award m **Student(s)** Ana Boccanfuso **Grade 8** **Town** Woodbridge
 Saunder Saffran **Grade 8** **Town** Bethany

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 1st Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
- * Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- * Xerox Computer Science Awards --- Middle School Finalist - Medallion, Acrylic Award
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF
- * IEEE, Connecticut Section --- \$100 Honorable Mention

North Haven North Haven Middle School Susan Jasinski
 2033 L7 Developing a low-cost Green Algae Photobioreactor
Award m **Student(s)** Luke Barrett **Grade 7** **Town** North Haven

- * Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion & Acrylic Award
- * American Meteorological Society --- Certificate & \$50 Amazon gift card given by CSEF
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

Orange Amity Reg Middle School, Orange Campus Mr. Foley/Dahn
 5504 P8 Non-Newtonian Fluid Headgear to Prevent or Reduce Concussions
Award m **Student(s)** Henry Westgard **Grade 8** **Town** Orange

- * Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology 8th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS
- * American Society of Safety Engineers, CT Valley Chapter --- \$100 grade 7-8 project



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High School

Fairfield Fairfield College Preparatory School Deborah Kiel

6052 PS Application of Computer Vision in Pupil and Eye Center Tracking

Award 1 Student(s) Hanson Mo Grade 11 Town Fairfield

- * People's United Bank Mathematics Awards - with ATOMIC --- 1st Place High School- \$150 from ATOMIC, Plaque, \$500 from People's United Bank
- * Barnes Aerospace Applied Technology Awards --- 1st Place High School - \$500 and Plaque, Medallion
- * Xerox Computer Science Awards --- 1st Place High School - \$400, Plaque, Medallion
- * Intel Excellence in Computer Science Award --- \$200 & certificate
- * IEEE, Connecticut Section --- \$250 Honors Award -Senior
- * Skills21 at EDUCATION CONNECTION --- \$100 For innovative use of technology to advance science or engineering
- * Zepke Award --- \$200 - For the Best Use of Electronic Circuitry
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Mathematics
- * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

Middlebury Westover School Ben Hildebrand

6009 PS The Pick Me Up Stander Walker: Designing A Device to Assist with Sit to Stand Transfers and Ambulation

Award 2 Student(s) Caleigh Waskowicz Grade 12 Town Southington

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 3rd Place- Physical Sciences Senior High Individual - \$200 & Plaque
- * Barnes Aerospace Applied Technology Awards --- 2nd Place High School - \$300 and Plaque Medallion
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Engineering: Mechanical

Trumbull Christian Heritage School Daniel Cote

6047 PS Self-regulated LED Dimming System for Reduction of Eyestrain and Energy Consuming

Award 3 Student(s) Xuezheng Wu Grade 11 Town Orange

- * Barnes Aerospace Applied Technology Awards --- 3rd Place High School - \$ 200 and Plaque, Medallion
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Engineering: Electrical

Greenwich Brunswick School Dana Montanez

6511 PST Soil Remediation: Removing Contaminants by Means of Thermal Desorption Followed by Remineralization Through Addition of Organic Material

Award m Student(s) Andrew Mellert Grade 11 Town Greenwich
 William Gorman Grade 11 Town Bedford

- * Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award
- * Energize CT/eesmarts Future Sustainability Awards --- 3rd Place High School - \$300 Cash and Trophy



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

Greenwich Brunswick School Dana Montanez
 6529 PST The Future of the Prosthetic Limb: Sacrificing Visual Aesthetics and Individualized Movement to Yield Greater Strength and Utility

Award m **Student(s)** Matt Restieri **Grade** 10 **Town** Riverside
 Chris Burdick **Grade** 10 **Town** Riverside
 Greyson Wolfram **Grade** 10 **Town** Riverside

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion & Acrylic Award
- * Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award

Trumbull Christian Heritage School Daniel Cote
 6056 PS Object Detection for Autonomous Drone Navigation

Award m **Student(s)** Hannah Shipman **Grade** 11 **Town** Trumbull

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- * Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award
- * Skills21 at EDUCATION CONNECTION --- \$100 For innovative use of technology to advance science or engineering



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Alexion Biotechnology Awards

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

7th Grade

Danbury Westside Middle School Academy Jonathan Neuhausel

2005 L7 Study of Various Starch-based Biopolymers

Award 1 **Student(s)** Lasya Josyula **Grade** 7 **Town** Danbury

- * Pfizer Life Sciences Awards --- 1st Place- Life Sciences 7th grade- \$200 & trophy and Invitation to Compete Broadcom MASTERS
- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- MS Life Sciences- \$200 / plaque
- * CASE Urban School Challenge Awards with Travelers --- 1st Place Middle School - \$300 and Trophy, Medallion
- * Sustainable Resources and Practices Awards --- 2nd Place Middle School - \$300 Cash and 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 Mtg & \$500 to School Science Department for Equipment/Supplies
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 7th grade- \$300 & trophy
- * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp
- * **The Karen J. Howell Middle School Award for "Learning and Serving"**
 --- The Karen J. Howell Middle School Award for "Learning and Serving" - \$1000
 Life Science

Wilton Middlebrook Middle School Paige Randall

2065 L7 Banana Peels: Second Life as a Water Purifier

Award 2 **Student(s)** Anika Bhagavatula **Grade** 7 **Town** Wilton

- * Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- MS Life Sciences- \$300 / plaque
- * Environmental Sciences Awards with CACIWC --- 1st Place MS - \$300, Trophy, CACIWC gifts
- * Sustainable Resources and Practices Awards --- 1st Place Middle School - \$500 Cash and Trophy
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology 7th grade- \$200 & trophy
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF
- * Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"



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Alexion Biotechnology Awards

[SchTown] [School] [Teacher]

[Proj#] [FCat] [Project Title]

Hartford Sport and Medical Sciences Academy Marianne Vitali

5005 P7 Natural Plastic

Award 3 **Student(s)** Madison Lee **Grade** 7 **Town** Rocky Hill

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 5th Place- Physical Sciences 7th Grade Individual - trophy
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- MS Phys. Sciences- \$300 / plaque
- * CASE Urban School Challenge Awards with Travelers --- 4th Place Middle School - Trophy, Medallion
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & trophy
- * ASM Materials Education Foundation --- Certificate & \$50 gift card to Amazon given by CSEF
- * Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre
- * Stanley Lessoff Award for Excellence In Analytical Technique --- \$100 Cash and Plaque
- * Fred Bailey Memorial Award --- \$250 for innovative research- Hartford Urban Middle School Project
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

Stratford St. Mark School Ms. Stacy Xanthos

2020 L7 Mud Power

Award 4 **Student(s)** Liam Millott **Grade** 7 **Town** Milford

- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology 7th grade- trophy

New Haven Worthington Hooker School Mr. Jones

2056 L7 Plants: Natures stabilizer

Award 5 **Student(s)** Sadie Turner **Grade** 7 **Town** New Haven

- * Alexion Biotechnology Awards --- 5th Place- Biotechnology 7th grade- trophy

Danbury St. Gregory the Great School Mrs. Fahey

1024 LT Let's Go Bananas!
The Effect Of Ripeness On Banana DNA Extraction

Award m **Student(s)** Zachary Meyerson **Grade** 7 **Town** Danbury
 Dionie Smith **Grade** 7 **Town** Danbury

- * Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion & Acrylic Award
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion & Acrylic Award
- * Connecticut Science Supervisors Association --- \$125 for a middle school project



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Alexion Biotechnology Awards

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

Danbury St. Joseph School Jennifer Reilly
 1032 LT Preventing Bacteria Growth in Food
Award m **Student(s)** Matthew Riggs **Grade 7** **Town** Danbury
 Steven Soto **Grade 7** **Town** Danbury

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion & Acrylic Award
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF
- * Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to dinner
- * Sister Mary Christine Life Sciences Award --- \$150 and plaque for excellence in the life sciences by a catholic middle school project

Danbury Westside Middle School Academy Mr. Jonathan Neuhausel
 2049 L7 Effect of Watering Green Vegetable Plants With Chlorophyll-Rich Solutions to Increase Overall Chlorophyll Content
Award m **Student(s)** Benjamin Laham **Grade 7** **Town** Danbury

- * CASE Urban School Challenge Awards with Travelers --- 5th Place Middle School - Trophy, Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion & Acrylic Award

North Haven North Haven Middle School Susan Jasinski
 2033 L7 Developing a low-cost Green Algae Photobioreactor
Award m **Student(s)** Luke Barrett **Grade 7** **Town** North Haven

- * Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion & Acrylic Award
- * American Meteorological Society --- Certificate & \$50 Amazon gift card given by CSEF
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Alexion Biotechnology Awards

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

8th Grade

Hebron RHAM Middle School Bob Clarke

2522 L8 Computer simulation if segregating students by classroom during lunch time during a viral outbreak will reduce the length of the viral outbreak and the number of students infected.

Award 1 **Student(s)** Isabelle Benson Clarke **Grade** 8 **Town** Marlborough

- * People's United Bank Mathematics Awards - with ATOMIC --- 3rd Place Middle School - Trophy , \$100 from People's United Bank
- * Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- MS Life Sciences- \$150 / plaque
- * Xerox Computer Science Awards --- 3rd Place Middle School- \$100, Trophy, Medallion
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$500 & trophy and Invitation Compete in Broadcom MASTERS
- * Leask/Francoeur Family Awards --- 1st Place Middle School- For innovation electrical engineering or computer science - \$200 cash

Danbury Westside Middle School Academy Jonathan Neuhausel

1023 LT Mutagenesis in Bacteriophage Phi X174 to Induce a Target Host of Escherichia Vulneris

Award 2 **Student(s)** Sarah Johnson **Grade** 8 **Town** Danbury
 Anjeli Joseph **Grade** 8 **Town** Danbury

- * Pfizer Life Sciences Awards --- 2nd Place- Life Sciences MS Team- \$100 each & trophy and Invite Compete Broadcom MASTERS
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology 8th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS

Orange Amity Reg Middle School, Orange Campus Mr. Foley/Dahn

5504 P8 Non-Newtonian Fluid Headgear to Prevent or Reduce Concussions

Award 3 **Student(s)** Henry Westgard **Grade** 8 **Town** Orange

- * Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology 8th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS
- * American Society of Safety Engineers, CT Valley Chapter --- \$100 grade 7-8 project

Plantsville J.F. Kennedy Middle School Mrs.Pepin

2513 L8 Less is More: A test of minimal amount of water to grow a crop

Award 4 **Student(s)** Matthew Maciejewski **Grade** 8 **Town** Southington

- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology 8th grade- trophy and Invitation Compete in Broadcom MASTERS



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Alexion Biotechnology Awards

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

Danbury St. Joseph School Jennifer Reilly
 2538 L8 Influence of Climate Change on Lobster Population in Buzzards Bay Massachusetts: Implications for Long Island Sound

Award 5 **Student(s)** Bradley Kerr **Grade** 8 **Town** Danbury

- * Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 8th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- * Environmental Sciences Awards with CACIWC --- 2nd Place MS- \$200, Trophy, CACIWC gifts
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology 8th grade- trophy
- * American Meteorological Society --- Certificate & \$50 Amazon gift card given by CSEF
- * Yale Peabody Museum --- One-Year Family Membership to the Yale Peabody Museum
- * Southeastern New England Marine Educators --- \$100 award and membership in SENEME - 1st Place Junior & T-Shirt
- * Project Oceanology --- Individual - Book + 2 tickets, First Place Junior, check for \$100, t-shirt
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, air pollution related
- * Greenwich Shellfish Commission Marine Ecology Awards --- Middle School Award for Excellence in Marine Ecology Award- Ocean Camp at Project Oceanology

Avon Talcott Mountain Academy Jessica Lodwick
 2510 L8 Utilizing Microbes And Chlorella Vulgaris Algae To Construct An Eco-Friendly Microbial Fuel Cell

Award m **Student(s)** Yusuf Zaidi **Grade** 8 **Town** Avon

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean
 4005 PT Musical Hands; Prosthetic Components to Assist Disabled Musicians

Award m **Student(s)** Olivia Gross **Grade** 8 **Town** Woodbridge
 Ruth Berganross **Grade** 8 **Town** Woodbridge

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award

Danbury St. Gregory the Great School Christine Fahey
 2504 L8 Celling Power

Award m **Student(s)** George Hyland **Grade** 8 **Town** New Fairfield

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award

Danbury St. Joseph School Jennifer Reilly
 1015 LT The effect of x-ray radiation on the reproduction of Fruit Flies.

Award m **Student(s)** Patrick Iannetta **Grade** 8 **Town** Danbury
 James O'Keefe **Grade** 8 **Town** Danbury

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF



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Alexion Biotechnology Awards

[SchTown] [School] [Teacher]

[Proj#] [FCat] [Project Title]

Hamden Hamden Middle School Michelle DeLucia

2542 L8 Effect of Pollutants on Aquatic Life

Award m

Student(s) Ella Bradford

Grade 8 **Town** Hamden

* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award

* NASA EARTH System Science Award --- Certificate and \$50 gift card given by CSEF



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Alexion Biotechnology Awards

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

High School

Greenwich Greenwich High School Mr. Andrew Bramante

3029 LS Development of a Portable, Tattoo-Based Biosensor for the Non-Invasive, Low-Cost Diagnosis of Atherosclerosis via Iontophoresis of Macrophage-Targeting Silver Nanoparticles

Award 1 Student(s) William Yin Grade 11 Town Riverside

- * Alexion Biotechnology Awards --- 1st Place- Biotechnology Senior High- Trip to compete at Intel ISEF, \$1000 & plaque,
- * Biophysical Society --- Biophysics Award- \$100

Woodbridge Amity Regional High School Deborah Day

3066 LS Developing a Novel Progranulin-Derived Biologic for Gaucher disease

Award 2 Student(s) Helen Liu Grade 12 Town Orange

- * Pfizer Life Sciences Awards --- 3rd Place- Life Sciences Senior High- \$200 & Plaque
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology Senior High- \$500 & plaque
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Microbiology

Hamden Hamden High School Mr. Martins

3089 LS CRISPR Based Gene Editing Confers Resistance to Human Immunodeficiency Virus (HIV)

Award 3 Student(s) Aakshi Agarwal Grade 11 Town Hamden

- * Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High- \$500 & Plaque, Trip to compete at Intel ISEF
- * H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Life Sci. Senior 1st HS- \$1,000, Solid Silver Medal of Excellence, invite to CASE Annual Mtg
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology Senior High- \$300 & plaque

Windsor Academy of Aerospace and Engineering Dr. Lili Aramli

3042 LS An Electronic Neural Model of the Patellar Reflex Arc

Award 4 Student(s) Joshua Snyder Grade 11 Town Ivoryton

- * CASE Urban School Challenge Awards with Travelers --- 2nd Place High School - \$400 and Plaque, Medallion
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology Senior High- \$200 & plaque
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * John B. Trevor Award in Electrical Engineering --- \$500 cash award for an innovative electronic or electrical project

Greenwich Greenwich High School Andrew Bramante

3110 LS Oral delivery of insulin therapy via low cost, pH sensitive hydrogels

Award 5 Student(s) Michelle Xiong Grade 10 Town Riverside

- * Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- \$100 & plaque



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Alexion Biotechnology Awards

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

Greenwich Greenwich High School Andy Bramante
 3085 LS Delivery of Docetaxel via a Modified PEGylated Graphene Oxide Carrier to Inhibit Growth of Prostate Cancer Stem Cells

Award m **Student(s)** Henry Dowling **Grade** 11 **Town** Riverside

* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award

Greenwich Greenwich High School Andrew Bramante
 3008 LS Investigating the Proteolytic Effect of Serine Protease Against Staphylococcus Aureus Biofilm Formation on Glass and Stainless Steel Surface Chips

Award m **Student(s)** Takema Kajita **Grade** 11 **Town** Cos Cob

* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
 * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award

Greenwich Greenwich High School Bramante
 3002 LS The Optimization of Nanoparticle-based Drug Delivery of Melittin in A Selective, Biocompatible Method to Target HIV Structural Antigen p24

Award m **Student(s)** Sanju Sathish **Grade** 11 **Town** Greenwich

* Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High- \$300 & Plaque, Trip to compete at Intel ISEF
 * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award

Greenwich Greenwich High School Andrew Bramante
 3081 LS The Effect Of Common Cold and Flu Medications on Gut Bacteria

Award m **Student(s)** Rahul Subramaniam **Grade** 9 **Town** Cos Cob

* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award

Greenwich Greenwich High School Andrew Bramante
 3012 LS Selective Improvement in Anti-Cancer Drug Sensitivity via D-Glucosamine Inhibition of STAT3 Oncogenic Expression

Award m **Student(s)** Madeleine Zhou **Grade** 11 **Town** Old Greenwich

* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
 * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award

Woodbridge Amity Regional High School Deborah Day
 3003 LS Polymorphism in Mertk associated with Multiple Sclerosis

Award m **Student(s)** Agrani Dixit **Grade** 10 **Town** Woodbridge

* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award



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H. Joseph Gerber Medal of Excellence presented by CASE with CCAT

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

High School

Hamden Hamden High School Mr. Martins

3089 LS CRISPR Based Gene Editing Confers Resistance to Human Immunodeficiency Virus (HIV)

Award 1 Student(s) Aakshi Agarwal Grade 11 Town Hamden

- * Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High- \$500 & Plaque, Trip to compete at Intel ISEF
- * H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Life Sci. Senior 1st HS- \$1,000, Solid Silver Medal of Excellence, invite to CASE Annual Mtg
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology Senior High- \$300 & plaque

New Haven Wilbur Cross High School Caroline Dahm

6038 PS Exploring conditions for Struvite precipitation and crystal growth.

Award Student(s) Maya Geradi Grade 10 Town New Haven

- * CASE Urban School Challenge Awards with Travelers --- 1st Place High School - \$500 and Plaque, Medallion and trip to compete at Intel Int. Sci. & Eng. Fair
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Energize CT/eemarts Future Sustainability Awards --- 1st Place High School - \$800 Cash, Plaque, and Trip to Compete I-SWEEEP, Houston
- * Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash
- * H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Urban School Challenge 1st HS- \$1,000, Silver Medal of Excellence, Invite to CASE Annual Mtg & \$500 cash award to School Science Department for equipment/supplies
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Sustainability
- * CSF Board of Directors Award --- certificate and \$50 Amazon gift card given by CSF

Greenwich Greenwich High School Andrew Bramante

6055 PS Increased Charge Rate and Capacity for Olivine Lithium-Ion Batteries Using Efficient, Upcycled Nanoscale Electrodes

Award 1 Student(s) Christopher Popham Grade 11 Town Old Greenwich

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 1st Place - Physical Sciences Senior High Individual - \$500 & Plaque, trip to compete at Intel ISEF
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- * H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Physical Sciences 1st HS \$1,000, Solid Silver Medal of Excellence, invite to CASE Annual Mtg
- * Yale Science & Engineering Association, Inc. --- Certificate, \$50 gift card to Amazon given by CSEF

Date: 3/22/2016

CASE USC 1st Middle School
Connecticut Science & Engineering Fair
\$250 Cash Award, Invite to attend CASE's Annual Mtg and
\$500 to School Science Department for Equipment/Supplies

Cat/Proj#/Path	Title/Type/SchTown/School	Gr	Student(s)
L7 2005	Study of Various Starch-based Biopolymers 1 Danbury Westside Middle School Academy	7	Lasya Josyula



Connecticut Science & Engineering Fair

Quinnipiac University

March 15 - 19, 2016

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Final Judging Results

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

Xerox Computer Science Awards

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

Middle School

Avon Talcott Mountain Academy Dr. Jessica Lodwick

2035 L7 Do Algorithms Dream of Electric Trees?

Award 1 **Student(s)** Aresh Pourkavoos **Grade** 7 **Town** Avon

- * People's United Bank Mathematics Awards - with ATOMIC --- 1st Place Middle School- \$150 from ATOMIC, and Trophy, \$300 from People's United Bank
- * Xerox Computer Science Awards --- 1st Place Middle School - \$300, Trophy and Medallion
- * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

Avon Talcott Mountain Academy Dr. Jessica Lodwick

2548 L8 Using Artificial Neural Networks to Diagnose Prostate Cancer Malignancy

Award 2 **Student(s)** Zan Huang **Grade** 8 **Town** West Hartford

- * People's United Bank Mathematics Awards - with ATOMIC --- 2nd Place Middle School- \$100 from ATOMIC, and Trophy, \$200 from People's United Bank
- * Xerox Computer Science Awards --- 2nd Place Middle School - \$200, Trophy and Medallion

Hebron RHAM Middle School Bob Clarke

2522 L8 Computer simulation if segregating students by classroom during lunch time during a viral outbreak will reduce the length of the viral outbreak and the number of students infected.

Award 3 **Student(s)** Isabelle Benson Clarke **Grade** 8 **Town** Marlborough

- * People's United Bank Mathematics Awards - with ATOMIC --- 3rd Place Middle School - Trophy , \$100 from People's United Bank
- * Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- MS Life Sciences- \$150 / plaque
- * Xerox Computer Science Awards --- 3rd Place Middle School- \$100, Trophy, Medallion
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$500 & trophy and Invitation Compete in Broadcom MASTERS
- * Leask/Francoeur Family Awards --- 1st Place Middle School- For innovation electrical engineering or computer science - \$200 cash

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean

4009 PT The TempBot

Award m **Student(s)** Ana Boccanfuso **Grade** 8 **Town** Woodbridge
 Saunder Saffran **Grade** 8 **Town** Bethany

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 1st Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
- * Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- * Xerox Computer Science Awards --- Middle School Finalist - Medallion, Acrylic Award
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF
- * IEEE, Connecticut Section --- \$100 Honorable Mention



Connecticut Science & Engineering Fair

Quinnipiac University

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Final Judging Results

Xerox Computer Science Awards

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

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

Canton	Canton Middle School	Mr. Riley			
	4026	PT	The Note Glove		
Award	m	Student(s)	Gabriel Mower	Grade 8	Town Canton
			Adam Obrzut	Grade 8	Town Canton

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion & Acrylic Award
- * Xerox Computer Science Awards --- Middle School Finalist - Medallion, Acrylic Award
- * Connecticut Academy of Audiology --- \$150 Cash Award Middle School- For Excellence in Audiology and Acoustics

Glastonbury	Smith Middle School	Mary Coburn			
	5526	P8	Li-Fi: How bright should LEDs be to accurately transmit data?		
Award	m	Student(s)	Arjun Ahilan	Grade 8	Town Glastonbury

- * Xerox Computer Science Awards --- Middle School Finalist - Medallion, Acrylic Award
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- * Society of Women Engineers - Hartford Section --- Scientific Calculator



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Final Judging Results

Xerox Computer Science Awards

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

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

High School

Fairfield Fairfield College Preparatory School Deborah Kiel

6052 PS Application of Computer Vision in Pupil and Eye Center Tracking

Award 1 Student(s) Hanson Mo Grade 11 Town Fairfield

- * People's United Bank Mathematics Awards - with ATOMIC --- 1st Place High School- \$150 from ATOMIC, Plaque, \$500 from People's United Bank
- * Barnes Aerospace Applied Technology Awards --- 1st Place High School - \$500 and Plaque, Medallion
- * Xerox Computer Science Awards --- 1st Place High School - \$400, Plaque, Medallion
- * Intel Excellence in Computer Science Award --- \$200 & certificate
- * IEEE, Connecticut Section --- \$250 Honors Award -Senior
- * Skills21 at EDUCATION CONNECTION --- \$100 For innovative use of technology to advance science or engineering
- * Zepke Award --- \$200 - For the Best Use of Electronic Circuitry
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Mathematics
- * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

Woodbridge Amity Regional High School Deborah Day

6501 PST Creating a Mobile School Navigation App

Award 2 Student(s) Vince Li Grade 10 Town Orange
David Wang Grade 12 Town Bethany

- * Xerox Computer Science Awards --- 2nd Place High School - \$300, Plaque, Medallion
- * Intel Excellence in Computer Science Award --- \$200 & certificate
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Computer Science

Bethel Bethel High School Ray Turek

3038 LS Decoding Dangerous DNA

Award 3 Student(s) Monisha Das Grade 12 Town Bethel

- * Xerox Computer Science Awards --- 3rd Place High School- \$200, Plaque, Medallion
- * Intel Excellence in Computer Science Award --- \$200 & certificate
- * Leask/Francoeur Family Awards --- 1st Place High School- For innovation electrical engineering or computer science - \$200 cash
- * Cell Analysis and Modeling Award - Center for Cell Analysis and Modeling at UCHC --- \$100 monetary prize- and Tour of the Cell and Genome Sciences Institute at UCONN Health Center
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Cell and Molecular Biology

Bridgeport Fairchild Wheeler Interdistrict Magnet Mrs. Jamie Warner

3047 LS An Investigation into the Affect of Computer Puzzle Games on Student Test Scores

Award m Student(s) Steven Siveyer Grade 9 Town Monroe

- * Xerox Computer Science Awards --- Senior High Finalist - Medallion, Acrylic Award



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Final Judging Results

Xerox Computer Science Awards

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

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

Bristol St. Paul Catholic High School Mr Aliberti

6006 PS A Novel Approach To Help Households Use Less Water

Award m **Student(s)** Kamila Krawczuk **Grade** 10 **Town** New Britain

- * Xerox Computer Science Awards --- Senior High Finalist - Medallion, Acrylic Award
- * Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- * Ct Architecture Foundation Award Name: The William M. Mack, AIA Award --- \$250 Gift Certificate to Barnes and Noble from the Connecticut Architecture Foundation, William M. Mack, AIA Award.
- * ISA - International Society for Automation - Ct. Valley Section --- 2nd - \$75 award
- * CSF Board of Directors Award --- certificate and \$50 Amazon gift card given by CSF
- * The Connecticut Technology Council Young Woman Innovation Award --- \$150 Cash Award for Technological Innovation

Suffield Suffield High School Mitch Charkiewicz

3024 LS An Application To Efficiently Take Notes Reliably For Full Student Engagement in a Teacher's Lecture

Award m **Student(s)** Madison D'Ostuni **Grade** 11 **Town** Suffield

- * Xerox Computer Science Awards --- Senior High Finalist - Medallion, Acrylic Award



Connecticut Science & Engineering Fair

Quinnipiac University

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Final Judging Results

UTC Aerospace Systems Awards for Excellence in Engineering

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

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

Middle School

Bozrah Fields Memorial School Evelyn Brown

5518 P8 Producing Renewable Energy Using Piezoelectric Walking Surfaces

Award Student(s) **Dravyn Okoney** Grade 8 Town **Bozrah**

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & trophy, invite to compete Broadcom MASTERS
- * Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF
- * Ricoh Americans Corporation --- Certificate, \$50 gift card to Amazon given by CSEF
- * Constellation, an Exelon Company --- 2nd: \$75.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
- * Connecticut Association for the Gifted --- Leonardo Davinci 7-8 Grade \$50 Gift Certificate
- * Spirit of Invention Award --- \$100 Cash and Plaque for Inventive Concepts

Hartford Sport and Medical Sciences Academy Marianne Vitali

5005 P7 Natural Plastic

Award Student(s) **Madison Lee** Grade 7 Town **Rocky Hill**

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 5th Place- Physical Sciences 7th Grade Individual - trophy
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- MS Phys. Sciences- \$300 / plaque
- * CASE Urban School Challenge Awards with Travelers --- 4th Place Middle School - Trophy, Medallion
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & trophy
- * ASM Materials Education Foundation --- Certificate & \$50 gift card to Amazon given by CSEF
- * Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre
- * Stanley Lessoff Award for Excellence In Analytical Technique --- \$100 Cash and Plaque
- * Fred Bailey Memorial Award --- \$250 for innovative research- Hartford Urban Middle School Project
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"



Connecticut Science & Engineering Fair

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Final Judging Results

UTC Aerospace Systems Awards for Excellence in Engineering

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

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

Hebron Oei - Homeschool Ellen McHugh

5026	P7	Hydropower Tiles: A Novel Approach to Harvesting Energy from Human Locomotion
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Award **Student(s)** John Oei **Grade** 7 **Town** Hebron

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion & Acrylic Award
- * Alternative/Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- * Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre
- * IEEE, Connecticut Section --- \$250 Honors Award -Junior
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"
- * Bob Harris Fix It Award --- \$75 and Certificate for ingenuity in using material and tools



Connecticut Science & Engineering Fair

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Final Judging Results

UTC Aerospace Systems Awards for Excellence in Engineering

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

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

High School

Greenwich Greenwich High School Andrew Bramante

6055	PS	Increased Charge Rate and Capacity for Olivine Lithium-Ion Batteries Using Efficient, Upcycled Nanoscale Electrodes
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Award Student(s) **Christopher Popham** Grade 11 Town Old Greenwich

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 1st Place - Physical Sciences Senior High Individual - \$500 & Plaque, trip to compete at Intel ISEF
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- * H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Physical Sciences 1st HS \$1,000, Solid Silver Medal of Excellence, invite to CASE Annual Mtg
- * Yale Science & Engineering Association, Inc. --- Certificate, \$50 gift card to Amazon given by CSEF

Greenwich Greenwich High School Andrew Bramante

3033	LS	Open-Wound Administration of Coagulant and Antibacterial Therapeutics via CaCO ₃ Microparticle Self-propulsion
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Award Student(s) **Michelle Woo** Grade 10 Town Riverside

- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist- Life Sciences - Medallion and Acrylic Award
- * Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering

Greenwich Greenwich High School Andrew Bramante

6015	PS	Self-Sustaining Biosynthesis of Methane from CO ₂ via a Microbial & Electrochemical Hybrid System
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Award Student(s) **Devyn Zaminski** Grade 11 Town Greenwich

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 4th Place- Physical Sciences Senior High Individual - Plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- HS Phys. Sciences- \$250 / plaque
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- * ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2016 Sustainability Solutions Festival and \$50 Gift Card
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related



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Final Judging Results

UTC Aerospace Systems Awards for Excellence in Engineering

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

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

Middlebury Westover School Ben Hildebrand

6009	PS	The Pick Me Up Stander Walker: Designing A Device to Assist with Sit to Stand Transfers and Ambulation
------	----	--

Award **Student(s)** **Caleigh Waskowicz** **Grade** 12 **Town** Southington

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 3rd Place- Physical Sciences Senior High Individual - \$200 & Plaque
- * Barnes Aerospace Applied Technology Awards --- 2nd Place High School - \$300 and Plaque Medallion
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Engineering: Mechanical



Connecticut Science & Engineering Fair

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Final Judging Results

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 Winners = w

EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards

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

Middle School

Bozrah Fields Memorial School Evelyn Brown

5518 P8 Producing Renewable Energy Using Piezoelectric Walking Surfaces

Award 1 **Student(s)** Dravyn Okoney **Grade** 8 **Town** Bozrah

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & trophy, invite to compete Broadcom MASTERS
- * Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF
- * Ricoh Americans Corporation --- Certificate, \$50 gift card to Amazon given by CSEF
- * Constellation, an Exelon Company --- 2nd: \$75.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
- * Connecticut Association for the Gifted --- Leonardo Davinci 7-8 Grade \$50 Gift Certificate
- * Spirit of Invention Award --- \$100 Cash and Plaque for Inventive Concepts

Hebron Oei - Homeschool Ellen McHugh

5026 P7 Hydropower Tiles: A Novel Approach to Harvesting Energy from Human Locomotion

Award 2 **Student(s)** John Oei **Grade** 7 **Town** Hebron

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion & Acrylic Award
- * Alternative/Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- * Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre
- * IEEE, Connecticut Section --- \$250 Honors Award -Junior
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"
- * Bob Harris Fix It Award --- \$75 and Certificate for ingenuity in using material and tools

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean

4013 PT The Enermill

Award 3 **Student(s)** Laurella Marin **Grade** 8 **Town** Woodbridge
 Rhea Dey **Grade** 8 **Town** Woodbridge

- * Alternative/Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy



Connecticut Science & Engineering Fair

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Final Judging Results

EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards

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

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

Newtown St. Rose of Lima School Mrs. Marde Dimon

5007 P7 THE EFFECT OF REFLECTIVE LIGHT ON SOLAR ENERGY PRODUCTION

Award m **Student(s)** Peyton McKenzie **Grade** 7 **Town** Newtown

* Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award

West Hartford St. Timothy Middle School Mrs. Christina Simao-Breen

5550 P8 Sustainable Wireless Powered House

Award m **Student(s)** Steven Liu **Grade** 8 **Town** West Hartford

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
- * Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * Constellation, an Exelon Company --- 1st: \$125.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy



Connecticut Science & Engineering Fair

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Final Judging Results

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

EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards

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

High School

Tolland Stonewall Academy Donald Peck

6085 PS Designing an Airfoil Spinner to Improve the Efficiency of Horizontal Axis Wind Turbines

Award 1 Student(s) Amelia Peck Grade 10 Town Tolland

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- * People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion & Acrylic Award
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- HS Phys. Sciences- \$500 / plaque
- * Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Plaque, Trip to Compete I-SWEEEP, Houston
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- * Mu Alpha Theta --- Certificate, \$50 gift card to Amazon given by CSEF
- * Constellation, an Exelon Company --- 1st: \$200.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy
- * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, high school, \$100 cash award
- * Arthur Mensing Award --- \$1000 cash award for excellence in the physical sciences
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Energy & Transportation

New London Science and Technology Magnet HS Mr. Mulligan

6506 PST Using Heat Sinks In Integrated Photovoltaic Systems To Enhance Hydrogen Production Through Electrolysis

Award 2 Student(s) John Burnett Grade 10 Town Ledyard
 Austin Huang Grade 10 Town Uncasville

- * CASE Urban School Challenge Awards with Travelers --- Senior High Finalist - Medallion and acrylic award
- * Alternative/Renewable Energy Awards --- 2nd Place High School - \$500 Cash and Plaque, Trip to Compete GENIUS Olympiad, Oswego, NY
- * Constellation, an Exelon Company --- 2nd: \$100.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy

New Haven Engineering Science University Magnet School Mr. Roger Rushworth

6022 PS An Approach to Converting Pollutant CO2 Emissions into Methanol Fuels to Reduce Environmental Harm from Greenhouse Gases

Award 3 Student(s) Prastik Mohanraj Grade 9 Town Ansonia

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- * CASE Urban School Challenge Awards with Travelers --- 3rd Place High School - \$ 300 and Plaque, Medallion
- * Alternative/Renewable Energy Awards --- 3rd Place High School - \$200 Cash and Plaque
- * Environmental/ Energy Award- Urban Public School Award --- \$100 Award for top environmental or alternative energy project from a New Haven public school



Connecticut Science & Engineering Fair

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Final Judging Results

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

EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards

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

Avon Avon High School Andrea Galuska
 6507 PST Renewable Hydrogen-Based Automotive Engine (HICEV): Using a Novel Electrolysis Apparatus to Improve Cost-Efficiency

Award m Student(s) Humza Zaidi Grade 10 Town Avon
 Chris Swetzes Grade 10 Town Avon

* Alternative/Renewable Energy Awards --- High School Finalist - Medallion

Bridgeport Bridgeport Military Academy Mrs. Andrade
 6044 PS Hydrogen, The Futures Fuel.

Award m Student(s) Facundo Cremel Grade 10 Town Bridgeport

* Alternative/Renewable Energy Awards --- High School Finalist - Medallion

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
 6039 PS Triboelectric Series and its relation concerning power generation in Triboelectric Nano generators

Award m Student(s) Randy Kaufman Grade 12 Town Stratford

* CASE Urban School Challenge Awards with Travelers --- Senior High Finalist - Medallion and acrylic award
 * Alternative/Renewable Energy Awards --- High School Finalist - Medallion
 * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report

Hamden Sacred Heart Academy Mrs. Pamela Brownell
 6076 PS A Practical Use of the MFC Partial Air Cathode: Improving Performance by Implementing a New Design for Applications in a Conventional Septic System

Award m Student(s) Elizabeth LoPreiato Grade 11 Town Berlin

* Alternative/Renewable Energy Awards --- High School Finalist - Medallion
 * Society of Women Engineers - Hartford Section --- Scientific Calculator

Redding Joel Barlow High School Dr. Katherine Nuzzo
 6505 PST A Novel Procedural Method for the Preparation of Photovoltaic Perovskite Solar Cells

Award m Student(s) Maxwell Matejka Grade 11 Town Easton
 Branden Fernandes Grade 11 Town Easton

* Alternative/Renewable Energy Awards --- High School Finalist - Medallion

Stamford Beacon School John Henderson
 6077 PS Providing a Design Suggesting the Viability of IHTP Thrusters for Commercial Use

Award m Student(s) Thomas Cortellesi Grade 11 Town Darien

* Alternative/Renewable Energy Awards --- High School Finalist - Medallion
 * Astronomical Society of Greater Hartford --- Senior Project-\$150, subscription to Sky and Telescope magazine and ASGH meeting invitation



Connecticut Science & Engineering Fair
Quinnipiac University
March 15 - 19, 2016

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Final Judging Results

**EnergizeCT/UI/eesmarts
 Alternative/Renewable Energy Awards**

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

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

Westport Staples High School Nick Morgan
 6502 PST Synthesis, Characterization, and Application of Noble Metal and Noble Metal Alloy Nanoparticles to Proton Exchange Membrane Fuel Cells for Enhanced Catalytic Activity

Award m **Student(s)** Xiaotian Zhang **Grade** 12 **Town** Westport
 Arun Soni **Grade** 12 **Town** Westport

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 1st Place- Physical Sciences Senior High Team- \$500 (split) & Plaque
- * Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- * American Society for Metals - Hartford Chapter --- \$100 Check



Connecticut Science & Engineering Fair

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Final Judging Results

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 Winners = w

Environmental Sciences Awards with CACIWC

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

Middle School

Wilton Middlebrook Middle School Paige Randall

2065 L7 Banana Peels: Second Life as a Water Purifier

Award 1 **Student(s)** Anika Bhagavatula **Grade** 7 **Town** Wilton

- * Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- MS Life Sciences- \$300 / plaque
- * Environmental Sciences Awards with CACIWC --- 1st Place MS - \$300, Trophy, CACIWC gifts
- * Sustainable Resources and Practices Awards --- 1st Place Middle School - \$500 Cash and Trophy
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology 7th grade- \$200 & trophy
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF
- * Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

Danbury St. Joseph School Jennifer Reilly

2538 L8 Influence of Climate Change on Lobster Population in Buzzards Bay Massachusetts: Implications for Long Island Sound

Award 2 **Student(s)** Bradley Kerr **Grade** 8 **Town** Danbury

- * Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 8th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- * Environmental Sciences Awards with CACIWC --- 2nd Place MS- \$200, Trophy, CACIWC gifts
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology 8th grade- trophy
- * American Meteorological Society --- Certificate & \$50 Amazon gift card given by CSEF
- * Yale Peabody Museum --- One-Year Family Membership to the Yale Peabody Museum
- * Southeastern New England Marine Educators --- \$100 award and membership in SENEME - 1st Place Junior & T-Shirt
- * Project Oceanology --- Individual - Book + 2 tickets, First Place Junior, check for \$100, t-shirt
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, air pollution related
- * Greenwich Shellfish Commission Marine Ecology Awards --- Middle School Award for Excellence in Marine Ecology Award- Ocean Camp at Project Oceanology

Windsor St. Gabriel School Margaret Rosa

4010 PT The Thermoelectric Trivet: A Device For Converting Waste Heat From Cooking Into DC Current

Award 3 **Student(s)** Benjamin Clark **Grade** 8 **Town** Windsor
 Alma Clark **Grade** 8 **Town** Windsor

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 3rd Place- Physical Sciences MS Team-trophy, invite to compete Broadcom MASTERS
- * Environmental Sciences Awards with CACIWC --- 3rd Place MS- \$100, Trophy, CACIWC gifts



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Environmental Sciences Awards with CACIWC

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

Bethel St. Mary School Mrs. Kate McDonald

5510 P8 Water Wizard: Incorporating the Simplicity of Water Testing Strips with the Complexity and Sophistication of a Smartphone Application While Utilizing Mathematics

Award **m** Student(s) **Kevin Legnard** Grade 8 Town Bethel

- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash

Bridgeport Park City Prep Charter School Mr. Jaekle

5036 P7 Water, Water Everywhere, But Not A Drop To Drink

Award **m** Student(s) **Antonios Boudreau** Grade 7 Town Ansonia

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 4th Place- Physical Sciences 7th Grade Ind. - trophy, invite to compete Broadcom MASTERS
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award

Danbury St. Joseph School Jennifer Reilly

5004 P7 Efficient Low Energy Salt Water Desalination

Award **m** Student(s) **Elias Haddad** Grade 7 Town Danbury

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion & Acrylic Award
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, middle school, \$100 cash award
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

Danbury Westside Middle School Academy Mr. Neuhausel

2009 L7 Ground Level Ozone in Danbury

Award **m** Student(s) **Nicholas Raslavsky** Grade 7 Town Danbury

- * Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion & Acrylic Award
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * TurnKey Compliance Solutions Environmental Awards --- \$200 Cash Award Middle School- For excellence in environmental sciences

Hartford Environmental Sciences Magnet at Mary Hooker David Cappaert

2507 L8 Man Vs Wild:
A Study of Plant Biodiversity in Overgrown Ecosystems

Award **m** Student(s) **Austin Zemsta** Grade 8 Town New Britain

- * Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion & Acrylic Award
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Ricoh Americans Corporation --- Certificate, \$50 gift card to Amazon given by CSEF
- * Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum



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 Winners = w

Environmental Sciences Awards with CACIWC

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

New Haven Engineering Science University Magnet School Roger Rushworth
 5552 P8 Is it Eco-Friendly?
Award m **Student(s)** James Rodrigues **Grade** 8 **Town** Milford

* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award

Plantsville J.F. Kennedy Middle School Mrs.Pepin
 2513 L8 Less is More: A test of minimal amount of water to grow a crop
Award m **Student(s)** Matthew Maciejewski **Grade** 8 **Town** Southington

* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
 * Alexion Biotechnology Awards --- 4th Place- Biotechnology 8th grade- trophy and Invitation Compete in Broadcom MASTERS

Southington J.A. DePaolo Middle School Ms. Shea
 2502 L8 Heavy Metal Adsorption Capability Of Pumice
Award m **Student(s)** Betul Agirman **Grade** 8 **Town** Southington

* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist- Life Sciences - Medallion and Acrylic Award
 * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award

Southington J.A. DePaolo Middle School Ms.Shea
 4034 PT Are Southington Ponds Safe? Or not Safe?
Award m **Student(s)** Brianna Pearson **Grade** 7 **Town** Southington
 Morgan Perschy **Grade** 7 **Town** Southington

* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
 * Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash

Windsor Madina Academy Muhammad Abubakar
 4028 PT Investigating novel methods of generating electricity by using a Fibonacci wind-turbine with piezoelectric generators versus a regular wind-turbine with piezoelectric-generators
Award m **Student(s)** Ibrahim Moghul **Grade** 8 **Town** Bloomfield
 Yaman Zoghol **Grade** 7 **Town** Enfield
 Ahmad Mohammed **Grade** 7 **Town** Windsor

* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
 * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy



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Environmental Sciences Awards with CACIWC

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

High School

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3052 LS Using biochar and 8-methyl-N-vanillyl-trans-6-nonenamide as a nontoxic agricultural pest inhibitor for glycine max

Award 1 Student(s) Skylynn Reyes Grade 12 Town Bridgeport

- * Environmental Sciences Awards with CACIWC --- 1st Place HS- \$500, Plaque, CACIWC gifts, Trip to Compete I-SWEEEP, Houston
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Environmental Science

Fishers Island Fishers Island School Mrs. Carol Giles

3013 LS Assessing the Efficiency and Ecological Impact of Various Anti-fouling Methods

Award 2 Student(s) Elias Kane Grade 12 Town Groton

- * Environmental Sciences Awards with CACIWC --- 2nd Place HS- \$500, Plaque, CACIWC gifts, Trip to Compete GENIUS Olympiad, Oswego, NY
- * ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2016 Sustainability Solutions Festival and \$50 Gift Card
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate
- * Project Oceanology --- Individual - Book + 2 tickets, First Place Senior, check for \$100, t-shirt

Hamden Sacred Heart Academy Mrs. Susan Nelson

3030 LS Using the Physiological Energetics Model to Study the Effects of Contaminating Microscopic Plastic Particles on Blue Mussel, Mytilus edulis

Award 3 Student(s) Catherine Herrick Grade 9 Town Sandy Hook

- * Environmental Sciences Awards with CACIWC --- 3rd Place HS- \$100, Plaque, CACIWC gifts

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

6029 PS Development of a biochar based, sorption material to regulate nitrogen compounds in aquatic and terrestrial environments.

Award m Student(s) Madeline Gill Grade 12 Town Fairfield

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Stockholm Junior Water Prize --- Certificate, \$50 gift card to Amazon given by CSEF, possible advance to further competition

Greenwich Brunswick School Dana Montanez

3524 LST Acropora and Anacropora Grafting: A Feasible Method to Reestablish Zooxanthellae Colonies following a Traumatic Bleaching Event

Award m Student(s) Thacher Scannell Grade 10 Town Stamford
 Edward Camel Grade 10 Town Greenwich

- * Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High Team- \$300 (split) & Plaque
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award



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 Winners = w

Environmental Sciences Awards with CACIWC

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

Hamden Sacred Heart Academy Mrs. Pam Brownell
 6067 PS Is Oobleck the Key to Solving Beach Erosion?
Award m **Student(s)** Ashley Amarante **Grade** 10 **Town** Wallingford

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Connecticut Association for the Gifted --- Leonardo Davinci Award 9-12 Grade \$50 Gift Certificate

Hamden Sacred Heart Academy Dr. Elizabeth Christophy
 6027 PS Examination of Different Wet Scrubber Sorbents in Reducing Acid Rain Production and Removing Solid Pollutants
Award m **Student(s)** Laura Mocchiola **Grade** 10 **Town** Shelton

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- * U.S. Metric Association --- Certificate & \$50 gift card to Amazon given by CSEF
- * TurnKey Compliance Solutions Environmental Awards --- \$300 Cash Award High School- For excellence in environmental sciences

Hamden Sacred Heart Academy Mrs. Brownell
 6083 PS Is There Tin in My Fish?
Award m **Student(s)** Audrey Seyfried **Grade** 10 **Town** Milford

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award

Madison Daniel Hand High School Madhuparna Roychoudhury
 6053 PS A practical method for CO2 capture by recovering dissolved CO2 in ocean water.
Award m **Student(s)** Ankita Roychoudhury **Grade** 11 **Town** Madison

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- * Yale Science & Engineering Association, Inc. --- Certificate, \$50 gift card to Amazon given by CSEF
- * University of Connecticut - Physics Department --- UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificate
- * Greenwich Shellfish Commission Marine Ecology Awards --- High School Award for Excellence in Marine Ecology Award- Ocean Camp at Project Oceanology



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Final Judging Results

Environmental Sciences Awards with CACIWC

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

New Haven Wilbur Cross High School Caroline Dahm

6038 PS Exploring conditions for Struvite precipitation and crystal growth.

Award m **Student(s)** Maya Geradi **Grade** 10 **Town** New Haven

- * CASE Urban School Challenge Awards with Travelers --- 1st Place High School - \$500 and Plaque, Medallion and trip to compete at Intel Int. Sci. & Eng. Fair
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Energize CT/eemarks Future Sustainability Awards --- 1st Place High School - \$800 Cash, Plaque, and Trip to Compete I-SWEEEP, Houston
- * Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash
- * H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Urban School Challenge 1st HS- \$1,000, Silver Medal of Excellence, Invite to CASE Annual Mtg & \$500 cash award to School Science Department for equipment/supplies
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Sustainability
- * CSF Board of Directors Award --- certificate and \$50 Amazon gift card given by CSF

New London Science and Technology Magnet HS Chuck Mulligan

3027 LS Bioaccumulation of Total Mercury in the Poquonnock River System and its Implications for Local Fisheries

Award m **Student(s)** Kathryn Ashbey **Grade** 12 **Town** Waterford

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Mystic Aquarium --- \$100 and 4 Admission Tickets to Mystic Aquarium
- * Southeastern New England Marine Educators --- \$100 award and membership in SENEME - 1st Place Senior & T-Shirt
- * Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Life Sciences

Redding CT STEM FAIR Ms. Deborah Day

6014 PS Succession Variations in Kenyan Scavenger Communities and the Importance of Wildebeest Carcasses

Award m **Student(s)** Katherine Handler **Grade** 11 **Town** Woodbridge

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award

Redding Joel Barlow High School Dr. Katherine Nuzzo

3090 LS The Rate of Calcification of Crassostrea Virginica as Calcium Carbonate Levels are Increased

Award m **Student(s)** Tatiana Naclerio **Grade** 11 **Town** Easton

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Mu Alpha Theta --- Certificate, \$50 gift card to Amazon given by CSEF

Redding Joel Barlow High School Dr. Katherine Nuzzo

6074 PS Novel Use of Carbonic Anhydrase for Sequestration of Soil Respiration

Award m **Student(s)** Grant Worthington **Grade** 11 **Town** Easton

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award



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Final Judging Results

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 Winners = w

Environmental Sciences Awards with CACIWC

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

Shelton Shelton High School Pamela Petro
 3511 LST Clean the Seas: The Effects of Pollutants on Aquatic Life
Award m **Student(s)** Courtney Litts **Grade** 10 **Town** Shelton
 Lauren Pawlowski **Grade** 10 **Town** Shelton

* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion & Acrylic Award
 * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award

Trumbull St. Joseph High School Patrick Pardee
 6024 PS Quantification of Pollutants Produced by Combustion of Synthetic Versus Fossil Fuels
Award m **Student(s)** Kara Cloud **Grade** 11 **Town** Bridgeport

* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award

Woodbridge Amity Regional High School Deborah Day
 3506 LST The Effect of Oniscus asellus Activity and Associated Decomposition on Soil Composition and Plant Growth
Award m **Student(s)** Haseeb Khan **Grade** 12 **Town** Orange
 Barak Davidi **Grade** 12 **Town** Woodbridge

* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award



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 Medalists = m
 Winners = w

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

High School

New Haven Wilbur Cross High School Caroline Dahm

6038 PS Exploring conditions for Struvite precipitation and crystal growth.

Award 1 Student(s) Maya Geradi Grade 10 Town New Haven

- * CASE Urban School Challenge Awards with Travelers --- 1st Place High School - \$500 and Plaque, Medallion and trip to compete at Intel Int. Sci. & Eng. Fair
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Energize CT/eesmarts Future Sustainability Awards --- 1st Place High School - \$800 Cash, Plaque, and Trip to Compete I-SWEEEP, Houston
- * Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash
- * H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Urban School Challenge 1st HS- \$1,000, Silver Medal of Excellence, Invite to CASE Annual Mtg & \$500 cash award to School Science Department for equipment/supplies
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Sustainability
- * CSF Board of Directors Award --- certificate and \$50 Amazon gift card given by CSF

New Haven Engineering Science University Magnet School Roger Rushworth

3084 LS How do varying kinds of enzymes effect the efficiency of enzymatic hydrolysis on lignocellulic material to produce cellulosic ethanol through fermentation

Award 2 Student(s) Sumanth Kondapalli Grade 9 Town Milford

- * CASE Urban School Challenge Awards with Travelers --- 5th Place High School - Plaque, Medallion
- * Energize CT/eesmarts Future Sustainability Awards --- 2nd Place High School - \$500 Cash and Plaque, Trip to Compete at GENIUS Olympiad, Oswego, NY

Greenwich Brunswick School Dana Montanez

6511 PST Soil Remediation: Removing Contaminants by Means of Thermal Desorption Followed by Remineralization Through Addition of Organic Material

Award 3 Student(s) Andrew Mellert Grade 11 Town Greenwich
 William Gorman Grade 11 Town Bedford

- * Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award
- * Energize CT/eesmarts Future Sustainability Awards --- 3rd Place High School - \$300 Cash and Trophy

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3086 LS Analysis of Honey Derivatives as a Functional Tumor Growth Suppressant

Award m Student(s) Katharine Morris Grade 12 Town Bridgeport

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
- * Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- HS Life Sciences- \$150 / plaque
- * Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Biochemistry



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EnergizeCT/CL&P/eesmarts Future Sustainability Awards

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

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
 6034 PS Development of a Zero Net Energy Hydrogen Fuel Cell System for the Purpose of Generating Potable Water
Award m **Student(s)** Danielle Peterson **Grade** 12 **Town** Stratford

* Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award

Bristol St. Paul Catholic High School Mr Aliberti
 6006 PS A Novel Approach To Help Households Use Less Water
Award m **Student(s)** Kamila Krawczuk **Grade** 10 **Town** New Britain

- * Xerox Computer Science Awards --- Senior High Finalist - Medallion, Acrylic Award
- * Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- * Ct Architecture Foundation Award Name: The William M. Mack, AIA Award --- \$250 Gift Certificate to Barnes and Noble from the Connecticut Architecture Foundation, William M. Mack, AIA Award.
- * ISA - International Society for Automation - Ct. Valley Section --- 2nd - \$75 award
- * CSF Board of Directors Award --- certificate and \$50 Amazon gift card given by CSF
- * The Connecticut Technology Council Young Woman Innovation Award --- \$150 Cash Award for Technological Innovation

Greenwich Brunswick School Dana Montanez
 3527 LST Investigating the feasibility of a cooperative yeast-algae biofuel production system and its effects on biomass and resulting impurities
Award m **Student(s)** Alexander Wada **Grade** 11 **Town** Old Greenwich
 Colin MacFaddin **Grade** 11 **Town** Cos Cob

- * Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High Team- \$500 (split) & Plaque
- * Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award

Greenwich Greenwich High School Andrew Bramante
 3033 LS Open-Wound Administration of Coagulant and Antibacterial Therapeutics via CaCO3 Microparticle Self-propulsion
Award m **Student(s)** Michelle Woo **Grade** 10 **Town** Riverside

- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist- Life Sciences - Medallion and Acrylic Award
- * Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering

Hamden Sacred Heart Academy Dr. Elizabeth Christophy
 6027 PS Examination of Different Wet Scrubber Sorbents in Reducing Acid Rain Production and Removing Solid Pollutants
Award m **Student(s)** Laura Mocchiola **Grade** 10 **Town** Shelton

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- * U.S. Metric Association --- Certificate & \$50 gift card to Amazon given by CSEF
- * TurnKey Compliance Solutions Environmental Awards --- \$300 Cash Award High School- For excellence in environmental sciences



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EnergizeCT/CL&P/eesmarts Future Sustainability Awards

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

Madison Daniel Hand High School Madhuparna Roychoudhury
 6053 PS A practical method for CO2 capture by recovering dissolved CO2 in ocean water.
Award m **Student(s)** Ankita Roychoudhury **Grade** 11 **Town** Madison

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- * Yale Science & Engineering Association, Inc. --- Certificate, \$50 gift card to Amazon given by CSEF
- * University of Connecticut - Physics Department --- UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificat
- * Greenwich Shellfish Commission Marine Ecology Awards --- High School Award for Excellence in Marine Ecology Award- Ocean Camp at Project Oceanology

New Haven Hill Regional Career High School Mr Dimoulas
 6526 PST Eco Friendly Batteries
Award m **Student(s)** Mike Olivares **Grade** 9 **Town** New Haven
 Rich Tran **Grade** 9 **Town** East Haven

- * Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award

Windsor Madina Academy Muhammad Abubakar
 6510 PST Designing and Constructing an Underwater Turbine with a Self-Functioning Water Desalination System Simulating the Conditions of the Long Island Sound
Award m **Student(s)** Maryam Moghul **Grade** 9 **Town** Bloomfield
 Alina Mohammed **Grade** 9 **Town** Windsor

- * Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award



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People's United Bank Mathematics Awards with ATOMIC

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

Middle School

Avon Talcott Mountain Academy Dr. Jessica Lodwick

2035 L7 Do Algorithms Dream of Electric Trees?

Award 1 **Student(s)** Aresh Pourkavoos **Grade** 7 **Town** Avon

- * People's United Bank Mathematics Awards - with ATOMIC --- 1st Place Middle School- \$150 from ATOMIC, and Trophy, \$300 from People's United Bank
- * Xerox Computer Science Awards --- 1st Place Middle School - \$300, Trophy and Medallion
- * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

Avon Talcott Mountain Academy Dr. Jessica Lodwick

2548 L8 Using Artificial Neural Networks to Diagnose Prostate Cancer Malignancy

Award 2 **Student(s)** Zan Huang **Grade** 8 **Town** West Hartford

- * People's United Bank Mathematics Awards - with ATOMIC --- 2nd Place Middle School- \$100 from ATOMIC, and Trophy, \$200 from People's United Bank
- * Xerox Computer Science Awards --- 2nd Place Middle School - \$200, Trophy and Medallion

Hebron RHAM Middle School Bob Clarke

2522 L8 Computer simulation if segregating students by classroom during lunch time during a viral outbreak will reduce the length of the viral outbreak and the number of students infected.

Award 3 **Student(s)** Isabelle Benson Clarke **Grade** 8 **Town** Marlborough

- * People's United Bank Mathematics Awards - with ATOMIC --- 3rd Place Middle School - Trophy , \$100 from People's United Bank
- * Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- MS Life Sciences- \$150 / plaque
- * Xerox Computer Science Awards --- 3rd Place Middle School- \$100, Trophy, Medallion
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$500 & trophy and Invitation Compete in Broadcom MASTERS
- * Leask/Francoeur Family Awards --- 1st Place Middle School- For innovation electrical engineering or computer science - \$200 cash

Meriden ACES Thomas Edison Middle School Susan Dalo

5503 P8 Tracking storage capacity on media discs

Award m **Student(s)** Kaitlyn Newman **Grade** 8 **Town** Middletown

- * People's United Bank Mathematics Awards - with ATOMIC --- Middle School Finalist - Medallion & Arcylic Award

Southington J.A. DePaolo Middle School Ms. Shea

5008 P7 Battle of the Loops

Award m **Student(s)** Faith Kosior **Grade** 7 **Town** Southington

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 1st Place- Physical Sciences 7th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
- * People's United Bank Mathematics Awards - with ATOMIC --- Middle School Finalist - Medallion & Arcylic Award
- * Connecticut College-Physics, Astronomy, & Geophysics Dept. --- \$150 and certificate, Junior Physics & teeshirt
- * Dreams Unlimited Award --- \$100 Cash Award + Certificate



Connecticut Science & Engineering Fair

Quinnipiac University

March 15 - 19, 2016

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Final Judging Results

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

People's United Bank Mathematics Awards with ATOMIC

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

High School

Fairfield Fairfield College Preparatory School Deborah Kiel

6052 PS Application of Computer Vision in Pupil and Eye Center Tracking

Award 1 Student(s) Hanson Mo Grade 11 Town Fairfield

- * People's United Bank Mathematics Awards - with ATOMIC --- 1st Place High School- \$150 from ATOMIC, Plaque, \$500 from People's United Bank
- * Barnes Aerospace Applied Technology Awards --- 1st Place High School - \$500 and Plaque, Medallion
- * Xerox Computer Science Awards --- 1st Place High School - \$400, Plaque, Medallion
- * Intel Excellence in Computer Science Award --- \$200 & certificate
- * IEEE, Connecticut Section --- \$250 Honors Award -Senior
- * Skills21 at EDUCATION CONNECTION --- \$100 For innovative use of technology to advance science or engineering
- * Zepke Award --- \$200 - For the Best Use of Electronic Circuitry
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Mathematics
- * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

Greenwich Brunswick School Dana Montanez

6037 PS Optimizing Efficiency of Urban, Track-based Rapid Transit Systems

Award 2 Student(s) Wesley Peisch Grade 10 Town Greenwich

- * People's United Bank Mathematics Awards - with ATOMIC --- 2nd Place High School- \$100 from ATOMIC, Plaque, \$300 from People's United Bank
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- * Barker Mohandas Awards for Transportation Research --- \$200 Cash & Plaque for Excellence in Transportation Related Research- High School

Fairfield Fairfield College Preparatory School Mrs. Kiel

6058 PS On Analyzing Modern Quantum Computation

Award 3 Student(s) Junlin Mo Grade 11 Town Bridgeport

- * People's United Bank Mathematics Awards - with ATOMIC --- 3rd Place High School - Plaque, \$200 from People's United Bank

Bridgeport Fairchild Wheeler Interdistrict Magnet Marilyn Pearson

6061 PS Determining whether or not the Quicksort is really the quickest

Award m Student(s) Steven vanZyl Grade 11 Town Trumbull

- * People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion & Acrylic Award



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Final Judging Results

People's United Bank Mathematics Awards with ATOMIC

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

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

Tolland Stonewall Academy Donald Peck

6085 PS Designing an Airfoil Spinner to Improve the Efficiency of Horizontal Axis Wind Turbines

Award m **Student(s)** Amelia Peck **Grade** 10 **Town** Tolland

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- * People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion & Acrylic Award
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- HS Phys. Sciences- \$500 / plaque
- * Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Plaque, Trip to Compete I-SWEEEP, Houston
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- * Mu Alpha Theta --- Certificate, \$50 gift card to Amazon given by CSEF
- * Constellation, an Exelon Company --- 1st: \$200.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy
- * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, high school, \$100 cash award
- * Arthur Mensing Award --- \$1000 cash award for excellence in the physical sciences
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Energy & Transportation



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Final Judging Results

Award Legend

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

Petit Family Foundation Awards

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

High School - Life Sciences

New Haven Wilbur Cross High School Caroline Dahm High School - Life Sciences
3045 LS Polyetherketoneketone (PEKK) Surgical Implant: An alternative cure for Internal Coxa Saltans in Female Adolescents
Award 1 **Student(s)** Sophie Edelstein **Grade** 9 **Town** New Haven

- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- HS Life Sciences- \$500 / plaque
- * CSEF Board of Directors Award to Compete at International Science & Engineering Fair --- CT Science & Engineering Fair Board of Directors Award to Compete at International Science & Engineering Fair
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate
- * John S. Kendall Memorial Awards --- \$500 John S. Kendall Award for Excellence In Mechanical Engineering - High School

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle High School - Life Sciences
3114 LS Analyzing the use of Moon Jellyfish, Aurelia aurita, Collagen as a Viable Alternative in Medical Applications
Award 2 **Student(s)** Kylie Fawcett **Grade** 12 **Town** Fairfield

- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- HS Life Sciences- \$250 / plaque
- * CASE Urban School Challenge Awards with Travelers --- 4th Place High School - Plaque, Medallion

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle High School - Life Sciences
3086 LS Analysis of Honey Derivatives as a Functional Tumor Growth Suppressant
Award 3 **Student(s)** Katharine Morris **Grade** 12 **Town** Bridgeport

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
- * Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- HS Life Sciences- \$150 / plaque
- * Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Biochemistry

Greenwich Greenwich High School Andrew Bramante High School - Life Sciences
3033 LS Open-Wound Administration of Coagulant and Antibacterial Therapeutics via CaCO₃ Microparticle Self-propulsion
Award m **Student(s)** Michelle Woo **Grade** 10 **Town** Riverside

- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist- Life Sciences - Medallion and Acrylic Award
- * Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering



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Final Judging Results

Award Legend

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

Petit Family Foundation Awards

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

High School - Physical

Tolland Stonewall Academy Donald Peck High School - Physical Sciences
6085 PS Designing an Airfoil Spinner to Improve the Efficiency of Horizontal Axis Wind Turbines

Award 1 **Student(s)** Amelia Peck **Grade** 10 **Town** Tolland

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- * People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion & Acrylic Award
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- HS Phys. Sciences- \$500 / plaque
- * Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Plaque, Trip to Compete I-SWEEEEP, Houston
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- * Mu Alpha Theta --- Certificate, \$50 gift card to Amazon given by CSEF
- * Constellation, an Exelon Company --- 1st: \$200.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy
- * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, high school, \$100 cash award
- * Arthur Mensing Award --- \$1000 cash award for excellence in the physical sciences
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Energy & Transportation

Greenwich Greenwich High School Andrew Bramante High School - Physical Sciences
6015 PS Self-Sustaining Biosynthesis of Methane from CO2 via a Microbial & Electrochemical Hybrid System

Award 2 **Student(s)** Devyn Zaminski **Grade** 11 **Town** Greenwich

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 4th Place- Physical Sciences Senior High Individual - Plaque
- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- HS Phys. Sciences- \$250 / plaque
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- * ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2016 Sustainability Solutions Festival and \$50 Gift Card
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related

Greenwich Greenwich High School Andrew Bramante High School - Physical Sciences
6057 PS Water Droplet Repulsion and Reduced Icing Tendencies on Superhydrophobic Surfaces

Award 3 **Student(s)** Haley Stober **Grade** 10 **Town** Old Greenwich

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- * Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- HS Phys. Sciences- \$150 / plaque
- * ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2016 Sustainability Solutions Festival and \$50 Gift Card



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Final Judging Results

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

Petit Family Foundation Awards

[SchTown] [School] [Teacher]

[Proj#] [FCat] [Project Title]

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle High School - Physical Sciences
6008 PS Observing the Deposition Process of Synthesized of Graphene Oxide and Iron Oxide to Establish a Stable Magnetic Field

Award m **Student(s)** Stephanie Kreidler **Grade** 12 **Town** Shelton

* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist- Physical Sciences - Medallion and Acrylic Award

* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Chemistry



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Medalists = m
Winners = w

Petit Family Foundation Awards

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

Middle School - Life Sciences

Wilton Middlebrook Middle School Paige Randall Middle School - Life Sciences
2065 L7 Banana Peels: Second Life as a Water Purifier

Award 1 **Student(s)** Anika Bhagavatula **Grade** 7 **Town** Wilton

- * Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- MS Life Sciences- \$300 / plaque
- * Environmental Sciences Awards with CACIWC --- 1st Place MS - \$300, Trophy, CACIWC gifts
- * Sustainable Resources and Practices Awards --- 1st Place Middle School - \$500 Cash and Trophy
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology 7th grade- \$200 & trophy
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF
- * Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

Danbury Westside Middle School Academy Jonathan Neuhausel Middle School - Life Sciences
2005 L7 Study of Various Starch-based Biopolymers

Award 2 **Student(s)** Lasya Josyula **Grade** 7 **Town** Danbury

- * Pfizer Life Sciences Awards --- 1st Place- Life Sciences 7th grade- \$200 & trophy and Invitation to Compete Broadcom MASTERS
- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- MS Life Sciences- \$200 / plaque
- * CASE Urban School Challenge Awards with Travelers --- 1st Place Middle School - \$300 and Trophy, Medallion
- * Sustainable Resources and Practices Awards --- 2nd Place Middle School - \$300 Cash and 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 Mtg & \$500 to School Science Department for Equipment/Supplies
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 7th grade- \$300 & trophy
- * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp
- * **The Karen J. Howell Middle School Award for "Learning and Serving"**
--- The Karen J. Howell Middle School Award for "Learning and Serving" - \$1000 Life Science

Hebron RHAM Middle School Bob Clarke Middle School - Life Sciences
2522 L8 Computer simulation if segregating students by classroom during lunch time during a viral outbreak will reduce the length of the viral outbreak and the number of students infected.

Award 3 **Student(s)** Isabelle Benson Clarke **Grade** 8 **Town** Marlborough

- * People's United Bank Mathematics Awards - with ATOMIC --- 3rd Place Middle School - Trophy , \$100 from People's United Bank
- * Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- MS Life Sciences- \$150 / plaque
- * Xerox Computer Science Awards --- 3rd Place Middle School- \$100, Trophy, Medallion
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$500 & trophy and Invitation Compete in Broadcom MASTERS
- * Leask/Francoeur Family Awards --- 1st Place Middle School- For innovation electrical engineering or computer science - \$200 cash



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Final Judging Results

Award Legend

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

Petit Family Foundation Awards

[SchTown] [School] [Teacher]

[Proj#] [FCat] [Project Title]

Newtown St. Rose of Lima School Mrs. Dimon Middle School - Life Sciences

2013 L7 the effect of different fertilizers on grass

Award m **Student(s)** Madelaine Simms **Grade** 7 **Town** Newtown

* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist- Life Sciences - Medallion and Acrylic Award

Southington J.A. DePaolo Middle School Ms. Shea Middle School - Life Sciences

2502 L8 Heavy Metal Adsorption Capability Of Pumice

Award m **Student(s)** Betul Agirman **Grade** 8 **Town** Southington

* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist- Life Sciences - Medallion and Acrylic Award

* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award

Stratford St. Mark School Mrs. Orendorf Middle School - Life Sciences

1019 LT Sugar Uncovered

Award m **Student(s)** Natalie Sciallo **Grade** 8 **Town** Stratford
 Kelly DeRosa **Grade** 8 **Town** Stratford

* Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion & Acrylic Award

* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist- Life Sciences - Medallion and Acrylic Award

* Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School Life Sciences



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Final Judging Results

Award Legend
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 Medalists = m
 Winners = w

Petit Family Foundation Awards

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

Middle School - Physical

Hartford Sport and Medical Sciences Academy Marianne Vitali Middle School - Physical Sciences
 5005 P7 Natural Plastic

Award 1 **Student(s)** Madison Lee **Grade** 7 **Town** Rocky Hill

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 5th Place- Physical Sciences 7th Grade Individual - trophy
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- MS Phys. Sciences- \$300 / plaque
- * CASE Urban School Challenge Awards with Travelers --- 4th Place Middle School - Trophy, Medallion
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & trophy
- * ASM Materials Education Foundation --- Certificate & \$50 gift card to Amazon given by CSEF
- * Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre
- * Stanley Lessoff Award for Excellence In Analytical Technique --- \$100 Cash and Plaque
- * Fred Bailey Memorial Award --- \$250 for innovative research- Hartford Urban Middle School Project
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

Danbury Westside Middle School Academy Jonathon Neuhausel Middle School - Physical Sciences
 5561 P8 The effect that different ingredient ratios have on the mechanical strength of bioplastics.

Award 2 **Student(s)** Sanjana Shriram **Grade** 8 **Town** Danbury

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- MS Phys. Sciences- \$200 / plaque
- * CASE Urban School Challenge Awards with Travelers --- Middle School Finalist - Medallion and acrylic award
- * ASM Materials Education Foundation --- Certificate & \$50 gift card to Amazon given by CSEF
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean Middle School - Physical Sciences
 5541 P8 The Eco-Charge

Award 3 **Student(s)** Sophia Wang **Grade** 8 **Town** Woodbridge

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
- * Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- MS Phys. Sciences- \$150 / plaque
- * Association for Women Geoscientists --- Certificate & \$50 gift card to Amazon given by CSEF



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Final Judging Results

Award Legend
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 Medalists = m
 Winners = w

Petit Family Foundation Awards

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

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean Middle School - Physical Sciences
 4029 PT Litter Bot
Award m **Student(s)** Tracy Lu **Grade** 8 **Town** Woodbridge
 Nicole Cohen **Grade** 8 **Town** Woodbridge

* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist- Physical Sciences - Medallion and Acrylic Award

Bozrah Fields Memorial School Evelyn Brown Middle School - Physical Sciences
 5531 P8 Using Solar Engine Circuits to Power Electrical Devices
Award m **Student(s)** Victoria Smith **Grade** 8 **Town** Bozrah

* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
 * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist- Physical Sciences - Medallion and Acrylic Award
 * Society of Women Engineers - Hartford Section --- Scientific Calculator

New Haven Engineering Science University Magnet School Mr. Rushworth Middle School - Physical Sciences
 5002 P7 Does Distance From a Nuclear Power Plant a Affect Plant Growth?
Award m **Student(s)** Eva Heaphy **Grade** 7 **Town** New Haven

* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist- Physical Sciences - Medallion and Acrylic Award
 * Association for Women Geoscientists --- Certificate & \$50 gift card to Amazon given by CSEF
 * Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School, Physical Sciences

Newtown St. Rose of Lima School Mrs. Dimon Middle School - Physical Sciences
 5534 P8 Construct and build a working turntable.
Award m **Student(s)** Marianella Salinas **Grade** 8 **Town** Newtown

* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist- Physical Sciences - Medallion and Acrylic Award



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Final Judging Results

Award Legend

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

Quinnipiac University Scholarships

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

High School

New Haven Engineering Science University Magnet School Heather Toothaker

3016 LS An Evaluation of the Accuracy of an Advanced Nanoribbon Microfluidic System to Measure Cytokine Concentration

Award Student(s) Lauren Low Grade 11 Town Hamden

- * CASE Urban School Challenge Awards with Travelers --- Senior High Finalist - Medallion and acrylic award
- * Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash

New Haven Wilbur Cross High School Caroline Dahm

6038 PS Exploring conditions for Struvite precipitation and crystal growth.

Award Student(s) Maya Geradi Grade 10 Town New Haven

- * CASE Urban School Challenge Awards with Travelers --- 1st Place High School - \$500 and Plaque, Medallion and trip to compete at Intel Int. Sci. & Eng. Fair
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Energize CT/eesmarts Future Sustainability Awards --- 1st Place High School - \$800 Cash, Plaque, and Trip to Compete I-SWEEEP, Houston
- * Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash
- * H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Urban School Challenge 1st HS- \$1,000, Silver Medal of Excellence, Invite to CASE Annual Mtg & \$500 cash award to School Science Department for equipment/supplies
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Sustainability
- * CSF Board of Directors Award --- certificate and \$50 Amazon gift card given by CSF



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Final Judging Results

EnergizeCT/CL&P/eesmarts Sustainable Resources & Practices Awards

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

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

Middle School

Wilton Middlebrook Middle School Paige Randall

2065 L7 Banana Peels: Second Life as a Water Purifier

Award 1 Student(s) **Anika Bhagavatula** Grade 7 Town Wilton

- * Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- MS Life Sciences- \$300 / plaque
- * Environmental Sciences Awards with CACIWC --- 1st Place MS - \$300, Trophy, CACIWC gifts
- * Sustainable Resources and Practices Awards --- 1st Place Middle School - \$500 Cash and Trophy
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology 7th grade- \$200 & trophy
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF
- * Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

Danbury Westside Middle School Academy Jonathan Neuhausel

2005 L7 Study of Various Starch-based Biopolymers

Award 2 Student(s) **Lasya Josyula** Grade 7 Town Danbury

- * Pfizer Life Sciences Awards --- 1st Place- Life Sciences 7th grade- \$200 & trophy and Invitation to Compete Broadcom MASTERS
- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- MS Life Sciences- \$200 / plaque
- * CASE Urban School Challenge Awards with Travelers --- 1st Place Middle School - \$300 and Trophy, Medallion
- * Sustainable Resources and Practices Awards --- 2nd Place Middle School - \$300 Cash and 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 Mtg & \$500 to School Science Department for Equipment/Supplies
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 7th grade- \$300 & trophy
- * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp
- * **The Karen J. Howell Middle School Award for "Learning and Serving"**
--- The Karen J. Howell Middle School Award for "Learning and Serving" - \$1000 Life Science

Danbury Westside Middle School Academy Mr. Neuhausel

5530 P8 Harvesting Wind From Street Canyons Using A Double Helix Wind Turbine

Award 3 Student(s) **Jeffrey Osborne** Grade 8 Town Danbury

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
- * CASE Urban School Challenge Awards with Travelers --- 2nd Place Middle School - \$200 and Trophy, Medallion
- * Sustainable Resources and Practices Awards --- 3rd Place Middle School - \$200 Cash and Trophy
- * Urban School Challenge 1st Place Middle School Awards --- Highest Placing 8th grader- GENIUS-Olympiad- \$500 travel stipend
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"



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Final Judging Results

EnergizeCT/CL&P/eesmarts Sustainable Resources & Practices Awards

Award Legend

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

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

Bozrah Fields Memorial School Evelyn Brown

5518 P8 Producing Renewable Energy Using Piezoelectric Walking Surfaces

Award m **Student(s)** Dravyn Okoney **Grade** 8 **Town** Bozrah

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 1st Place- Physical Sciences 8th Grade Ind. - \$300 & trophy, invite to compete Broadcom MASTERS
- * Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF
- * Ricoh Americans Corporation --- Certificate, \$50 gift card to Amazon given by CSEF
- * Constellation, an Exelon Company --- 2nd: \$75.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
- * Connecticut Association for the Gifted --- Leonardo Davinci 7-8 Grade \$50 Gift Certificate
- * Spirit of Invention Award --- \$100 Cash and Plaque for Inventive Concepts

Danbury St. Joseph School Jennifer Reilly

5004 P7 Efficient Low Energy Salt Water Desalination

Award m **Student(s)** Elias Haddad **Grade** 7 **Town** Danbury

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion & Acrylic Award
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, middle school, \$100 cash award
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"



Connecticut Science & Engineering Fair

Quinnipiac University

March 15 - 19, 2016

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Final Judging Results

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

EnergizeCT/CL&P/eesmarts Sustainable Resources & Practices Awards

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

Hartford Sport and Medical Sciences Academy Marianne Vitali

5005 P7 Natural Plastic

Award m **Student(s)** Madison Lee **Grade 7** **Town** Rocky Hill

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 5th Place- Physical Sciences 7th Grade Individual - trophy
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- MS Phys. Sciences- \$300 / plaque
- * CASE Urban School Challenge Awards with Travelers --- 4th Place Middle School - Trophy, Medallion
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & trophy
- * ASM Materials Education Foundation --- Certificate & \$50 gift card to Amazon given by CSEF
- * Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre
- * Stanley Lessoff Award for Excellence In Analytical Technique --- \$100 Cash and Plaque
- * Fred Bailey Memorial Award --- \$250 for innovative research- Hartford Urban Middle School Project
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

Hebron Oei - Homeschool Ellen McHugh

5026 P7 Hydropower Tiles: A Novel Approach to Harvesting Energy from Human Locomotion

Award m **Student(s)** John Oei **Grade 7** **Town** Hebron

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion & Acrylic Award
- * Alternative/Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- * Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre
- * IEEE, Connecticut Section --- \$250 Honors Award -Junior
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"
- * Bob Harris Fix It Award --- \$75 and Certificate for ingenuity in using material and tools

Stratford St. Mark School Ms. Stacy Xanthos

2020 L7 Mud Power

Award m **Student(s)** Liam Millott **Grade 7** **Town** Milford

- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology 7th grade- trophy



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Final Judging Results

EnergizeCT/CL&P/eesmarts Sustainable Resources & Practices Awards

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

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

West Hartford St. Timothy Middle School Mrs. Christina Simao-Breen

5550 P8 Sustainable Wireless Powered House

Award m **Student(s)** Steven Liu **Grade** 8 **Town** West Hartford

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
- * Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * Constellation, an Exelon Company --- 1st: \$125.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy

Windsor Madina Academy Muhammad Abubakar

4028 PT Investigating novel methods of generating electricity by using a Fibonacci wind-turbine with piezoelectric generators versus a regular wind-turbine with piezoelectric-generators

Award m **Student(s)** Ibrahim Moghul **Grade** 8 **Town** Bloomfield
 Yaman Zoghol **Grade** 7 **Town** Enfield
 Ahmad Mohammed **Grade** 7 **Town** Windsor

- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy



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Final Judging Results

CSTA Marty Tafel Award

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

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

Middle School

Danbury St. Gregory the Great School Christine Fahey

2526 L8 An Egg-cellent Experiment

Award Student(s) Analiese Seaman Grade 8 Town New Fairfield

- * Pfizer Life Sciences Awards --- 1st Place- Life Sciences 8th grade- \$300 & trophy and Invite to Compete Broadcom MASTERS
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Life Sciences 8th Grade - \$500 and invite to CSTA Award Banquet

Bozrah Fields Memorial School Evelyn Brown

5518 P8 Producing Renewable Energy Using Piezoelectric Walking Surfaces

Award Student(s) Dravyn Okoney Grade 8 Town Bozrah

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & trophy, invite to compete Broadcom MASTERS
- * Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF
- * Ricoh Americans Corporation --- Certificate, \$50 gift card to Amazon given by CSEF
- * Constellation, an Exelon Company --- 2nd: \$75.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
- * Connecticut Association for the Gifted --- Leonardo Davinci 7-8 Grade \$50 Gift Certificate
- * Spirit of Invention Award --- \$100 Cash and Plaque for Inventive Concepts



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Final Judging Results

University of Connecticut Academic Excellence Scholarship

Award Legend

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

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

Greenwich Greenwich High School Andrew Bramante

3078 LS Synthesis of Thermosensitive Magnetoliposomes for the Treatment of Atherosclerosis via Controlled Drug Delivery & Magnetic Hyperthermia

Student(s) Margaret Cirino

Grade 11 **Town** Greenwich

- * University of Connecticut Academic Excellence Scholarship - \$5,000 a year for each of four academic years- \$20,000 total
- * U.S. Metric Association --- Certificate & \$50 gift card to Amazon given by CSEF
- * University of Connecticut Academic Excellence Scholarship --- Academic Excellence Scholarship - \$5000 a year for each of four academic years- \$20,000 total



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Final Judging Results

CASE Urban School Challenge Awards with support from Travelers

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

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

Middle School

Danbury Westside Middle School Academy Jonathan Neuhausel

2005 L7 Study of Various Starch-based Biopolymers

Award 1 **Student(s)** Lasya Josyula **Grade** 7 **Town** Danbury

- * Pfizer Life Sciences Awards --- 1st Place- Life Sciences 7th grade- \$200 & trophy and Invitation to Compete Broadcom MASTERS
- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- MS Life Sciences- \$200 / plaque
- * CASE Urban School Challenge Awards with Travelers --- 1st Place Middle School - \$300 and Trophy, Medallion
- * Sustainable Resources and Practices Awards --- 2nd Place Middle School - \$300 Cash and 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 Mtg & \$500 to School Science Department for Equipment/Supplies
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 7th grade- \$300 & trophy
- * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp
- * **The Karen J. Howell Middle School Award for "Learning and Serving"**
--- The Karen J. Howell Middle School Award for "Learning and Serving" - \$1000 Life Science

Danbury Westside Middle School Academy Mr. Neuhausel

5530 P8 Harvesting Wind From Street Canyons Using A Double Helix Wind Turbine

Award 2 **Student(s)** Jeffrey Osborne **Grade** 8 **Town** Danbury

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
- * CASE Urban School Challenge Awards with Travelers --- 2nd Place Middle School - \$200 and Trophy, Medallion
- * Sustainable Resources and Practices Awards --- 3rd Place Middle School - \$200 Cash and Trophy
- * Urban School Challenge 1st Place Middle School Awards --- Highest Placing 8th grader- GENIUS-Olympiad- \$500 travel stipend
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

Hartford Environmental Sciences Magnet at Mary Hooker Mr Clark

5016 P7 Corked?

Award 3 **Student(s)** Kevin Braunwart **Grade** 7 **Town** Hebron

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion & Acrylic Award
- * CASE Urban School Challenge Awards with Travelers --- 3rd Place Middle School - \$100 and Trophy, Medallion
- * Fred Bailey Memorial Award --- \$250 for innovative research- Hartford Urban Middle School Project



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Final Judging Results

CASE Urban School Challenge Awards with support from Travelers

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

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

Hartford Sport and Medical Sciences Academy Marianne Vitali

5005 P7 Natural Plastic

Award 4 **Student(s)** Madison Lee **Grade 7** **Town** Rocky Hill

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 5th Place- Physical Sciences 7th Grade Individual - trophy
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- MS Phys. Sciences- \$300 / plaque
- * CASE Urban School Challenge Awards with Travelers --- 4th Place Middle School - Trophy, Medallion
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & trophy
- * ASM Materials Education Foundation --- Certificate & \$50 gift card to Amazon given by CSEF
- * Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre
- * Stanley Lessoff Award for Excellence In Analytical Technique --- \$100 Cash and Plaque
- * Fred Bailey Memorial Award --- \$250 for innovative research- Hartford Urban Middle School Project
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

Danbury Westside Middle School Academy Mr. Jonathan Neuhausel

2049 L7 Effect of Watering Green Vegetable Plants With Chlorophyll-Rich Solutions to Increase Overall Chlorophyll Content

Award 5 **Student(s)** Benjamin Laham **Grade 7** **Town** Danbury

- * CASE Urban School Challenge Awards with Travelers --- 5th Place Middle School - Trophy, Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion & Acrylic Award

Bridgeport Park City Prep Charter School Jonathan Jaekle

5557 P8 Saltifying Shock

Award m **Student(s)** Willow Marks **Grade 8** **Town** Bridgeport

- * CASE Urban School Challenge Awards with Travelers --- Middle School Finalist - Medallion and acrylic award

Danbury Westside Middle School Academy Jonathon Neuhausel

5561 P8 The effect that different ingredient ratios have on the mechanical strength of bioplastics.

Award m **Student(s)** Sanjana Shriram **Grade 8** **Town** Danbury

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- MS Phys. Sciences- \$200 / plaque
- * CASE Urban School Challenge Awards with Travelers --- Middle School Finalist - Medallion and acrylic award
- * ASM Materials Education Foundation --- Certificate & \$50 gift card to Amazon given by CSEF
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related



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Final Judging Results

CASE Urban School Challenge Awards with support from Travelers

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

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

New Haven Worthington Hooker School Douglas Jones
 5017 P7 Hot Plop Fizz. Hotter Plop fizz. Hottest Plop Fizz
Award m **Student(s)** Catalina Homann **Grade 7** **Town** New Haven

* CASE Urban School Challenge Awards with Travelers --- Middle School Finalist - Medallion and acrylic award

New Haven Worthington Hooker School Douglas Jones
 4004 PT Salty Electrons
Award m **Student(s)** Juliette Ranelli **Grade 8** **Town** New Haven
 Mei Han **Grade 8** **Town** New Haven

* CASE Urban School Challenge Awards with Travelers --- Middle School Finalist - Medallion and acrylic award



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Final Judging Results

CASE Urban School Challenge Awards with support from Travelers

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

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

High School

New Haven Wilbur Cross High School Caroline Dahm

6038 PS Exploring conditions for Struvite precipitation and crystal growth.

Award 1 Student(s) Maya Geradi Grade 10 Town New Haven

- * CASE Urban School Challenge Awards with Travelers --- 1st Place High School - \$500 and Plaque, Medallion and trip to compete at Intel Int. Sci. & Eng. Fair
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Energize CT/eesmart's Future Sustainability Awards --- 1st Place High School - \$800 Cash, Plaque, and Trip to Compete I-SWEEEP, Houston
- * Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash
- * H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Urban School Challenge 1st HS- \$1,000, Silver Medal of Excellence, Invite to CASE Annual Mtg & \$500 cash award to School Science Department for equipment/supplies
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Sustainability
- * CSF Board of Directors Award --- certificate and \$50 Amazon gift card given by CSF

Windsor Academy of Aerospace and Engineering Dr. Lili Aramli

3042 LS An Electronic Neural Model of the Patellar Reflex Arc

Award 2 Student(s) Joshua Snyder Grade 11 Town Ivoryton

- * CASE Urban School Challenge Awards with Travelers --- 2nd Place High School - \$400 and Plaque, Medallion
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology Senior High- \$200 & plaque
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * John B. Trevor Award in Electrical Engineering --- \$500 cash award for an innovative electronic or electrical project

New Haven Engineering Science University Magnet School Mr. Roger Rushworth

6022 PS An Approach to Converting Pollutant CO2 Emissions into Methanol Fuels to Reduce Environmental Harm from Greenhouse Gases

Award 3 Student(s) Prastik Mohanraj Grade 9 Town Ansonia

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- * CASE Urban School Challenge Awards with Travelers --- 3rd Place High School - \$ 300 and Plaque, Medallion
- * Alternative/Renewable Energy Awards --- 3rd Place High School - \$200 Cash and Plaque
- * Environmental/ Energy Award- Urban Public School Award --- \$100 Award for top environmental or alternative energy project from a New Haven public school

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

3114 LS Analyzing the use of Moon Jellyfish, Aurelia aurita, Collagen as a Viable Alternative in Medical Applications

Award 4 Student(s) Kylie Fawcett Grade 12 Town Fairfield

- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- HS Life Sciences- \$250 / plaque
- * CASE Urban School Challenge Awards with Travelers --- 4th Place High School - Plaque, Medallion



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 Medalists = m
 Winners = w

CASE Urban School Challenge Awards with support from Travelers

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

New Haven Engineering Science University Magnet School Roger Rushworth
 3084 LS How do varying kinds of enzymes effect the efficiency of enzymatic hydrolysis on lignocellulic material to produce cellulosic ethanol through fermentation

Award 5 **Student(s)** Sumanth Kondapalli **Grade** 9 **Town** Milford

- * CASE Urban School Challenge Awards with Travelers --- 5th Place High School - Plaque, Medallion
- * Energize CT/eesmarts Future Sustainability Awards --- 2nd Place High School - \$500 Cash and Plaque, Trip to Compete at GENIUS Olympiad, Oswego, NY

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle
 6039 PS Triboelectric Series and its relation concerning power generation in Triboelectric Nano generators

Award m **Student(s)** Randy Kaufman **Grade** 12 **Town** Stratford

- * CASE Urban School Challenge Awards with Travelers --- Senior High Finalist - Medallion and acrylic award
- * Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report

New Haven Engineering Science University Magnet School Heather Toothaker
 3016 LS An Evaluation of the Accuracy of an Advanced Nanoribbon Microfluidic System to Measure Cytokine Concentration

Award m **Student(s)** Lauren Low **Grade** 11 **Town** Hamden

- * CASE Urban School Challenge Awards with Travelers --- Senior High Finalist - Medallion and acrylic award
- * Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash

New London Science and Technology Magnet HS Charles Mulligan
 6513 PST Electromagnetism as an alternate source of power?

Award m **Student(s)** Nathaniel Bland **Grade** 10 **Town** New London
 Ethan Barnes **Grade** 10 **Town** New London

- * CASE Urban School Challenge Awards with Travelers --- Senior High Finalist - Medallion and acrylic award

New London Science and Technology Magnet HS Mr. Mulligan
 6506 PST Using Heat Sinks In Integrated Photovoltaic Systems To Enhance Hydrogen Production Through Electrolysis

Award m **Student(s)** John Burnett **Grade** 10 **Town** Ledyard
 Austin Huang **Grade** 10 **Town** Uncasville

- * CASE Urban School Challenge Awards with Travelers --- Senior High Finalist - Medallion and acrylic award
- * Alternative/Renewable Energy Awards --- 2nd Place High School - \$500 Cash and Plaque, Trip to Compete GENIUS Olympiad, Oswego, NY
- * Constellation, an Exelon Company --- 2nd: \$100.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy



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Final Judging Results

CASE Urban School Challenge Awards with support from Travelers

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

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

Windsor Academy of Aerospace and Engineering Dr. Lili Aramli
 3067 LS Improvements in Chemotherapy: The Implementation of HSP90 Inhibitors in the Suppression of Chemoresistance
Award m **Student(s)** Leon Novak **Grade** 12 **Town** Rocky Hill

* CASE Urban School Challenge Awards with Travelers --- Senior High Finalist - Medallion and acrylic award
 * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate



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Final Judging Results

United Technologies Corporation Awards

Award Legend

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

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

Middle School

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean

4009 PT The TempBot

Award **Student(s)** Ana Boccanfuso **Grade 8** **Town** Woodbridge
Saunder Saffran **Grade 8** **Town** Bethany

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 1st Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
- * Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- * Xerox Computer Science Awards --- Middle School Finalist - Medallion, Acrylic Award
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF
- * IEEE, Connecticut Section --- \$100 Honorable Mention

Hartford Sport and Medical Sciences Academy Marianne Vitali

5005 P7 Natural Plastic

Award **Student(s)** Madison Lee **Grade 7** **Town** Rocky Hill

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 5th Place- Physical Sciences 7th Grade Individual - trophy
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- MS Phys. Sciences- \$300 / plaque
- * CASE Urban School Challenge Awards with Travelers --- 4th Place Middle School - Trophy, Medallion
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & trophy
- * ASM Materials Education Foundation --- Certificate & \$50 gift card to Amazon given by CSEF
- * Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre
- * Stanley Lessoff Award for Excellence In Analytical Technique --- \$100 Cash and Plaque
- * Fred Bailey Memorial Award --- \$250 for innovative research- Hartford Urban Middle School Project
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

Glastonbury Smith Middle School Mary Coburn

5526 P8 Li-Fi: How bright should LEDs be to accurately transmit data?

Award **Student(s)** Arjun Ahilan **Grade 8** **Town** Glastonbury

- * Xerox Computer Science Awards --- Middle School Finalist - Medallion, Acrylic Award
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- * Society of Women Engineers - Hartford Section --- Scientific Calculator



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Final Judging Results

United Technologies Corporation Awards

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

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

High School

Greenwich Brunswick School Dana Montanez

6037 PS Optimizing Efficiency of Urban, Track-based Rapid Transit Systems

Award Student(s) Wesley Peisch Grade 10 Town Greenwich

- * People's United Bank Mathematics Awards - with ATOMIC --- 2nd Place High School- \$100 from ATOMIC, Plaque, \$300 from People's United Bank
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- * Barker Mohandas Awards for Transportation Research --- \$200 Cash & Plaque for Excellence in Transportation Related Research- High School

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

6039 PS Triboelectric Series and its relation concerning power generation in Triboelectric Nano generators

Award Student(s) Randy Kaufman Grade 12 Town Stratford

- * CASE Urban School Challenge Awards with Travelers --- Senior High Finalist - Medallion and acrylic award
- * Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report

Greenwich Greenwich High School Andrew Bramante

6055 PS Increased Charge Rate and Capacity for Olivine Lithium-Ion Batteries Using Efficient, Upcycled Nanoscale Electrodes

Award Student(s) Christopher Popham Grade 11 Town Old Greenwich

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 1st Place - Physical Sciences Senior High Individual - \$500 & Plaque, trip to compete at Intel ISEF
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- * H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Physical Sciences 1st HS \$1,000, Solid Silver Medal of Excellence, invite to CASE Annual Mtg
- * Yale Science & Engineering Association, Inc. --- Certificate, \$50 gift card to Amazon given by CSEF



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Final Judging Results

United Technologies Corporation Awards

Award Legend

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

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

Tolland Stonewall Academy Donald Peck

6085 PS Designing an Airfoil Spinner to Improve the Efficiency of Horizontal Axis Wind Turbines

Award Student(s) **Amelia Peck** Grade 10 Town Tolland

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- * People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion & Acrylic Award
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- HS Phys. Sciences- \$500 / plaque
- * Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Plaque, Trip to Compete I-SWEEEP, Houston
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- * Mu Alpha Theta --- Certificate, \$50 gift card to Amazon given by CSEF
- * Constellation, an Exelon Company --- 1st: \$200.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy
- * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, high school, \$100 cash award
- * Arthur Mensing Award --- \$1000 cash award for excellence in the physical sciences
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Energy & Transportation

Hamden Sacred Heart Academy Mrs. Brownell

6517 PST Printing Skin: Using Different Polymer Filaments to Print a Prosthetic Covering

Award Student(s) **Eunji Lee** Grade 10 Town Trumbull
Priya Patel Grade 11 Town Derby

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 3rd Place - Physical Sciences Senior High Team - Plaque
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- * Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Physical Sciences