



Connecticut Science Fair

Quinnipiac University

March 13 - 17, 2012

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

Final Judging Results

Applied Technology

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

Award Legend

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

Middle School

Plantsville John F. Kennedy Middle School Pepin

4015 PT The Windy 500: The Test of Drag and Down Force on Rear Spoilers

Award 1

Student(s) Emily Maciejewski
Laura Koba

Grade 8 Town Plantsville

Grade 8 Town Southington

- Dominion's Millstone Power Station Physical Sciences Awards --- 1st 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
- Goodrich ISR Awards for Excellence In Engineering --- \$1,000 Cash and plaque
- U.S. Air Force --- Certificate, sport bag, speaker, organizer

Glastonbury Smith Middle School Mr. Falcigno

5528 P8 On the Application of Electrochemical Double Layer Capacitors

Award 2

Student(s) Paul Han

Grade 8 Town Glastonbury

- Dominion's Millstone Power Station Physical Sciences Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & trophy, invite to compete Broadcom MASTERS
- Barnes Aerospace Applied Technology Awards --- 2nd Place Middle School - \$200 and Trophy, Medallion
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award
- Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Science 8th Grade - \$500 and invite to CSTA Award Banquet
- IEEE, Connecticut Section --- \$250 Honors Award -Junior
- Barker Mohandas Award for Transportation Research --- \$250 Cash for Excellence in Transportation Related Research
- John B. Trevor Award in Electrical Engineering --- \$500 cash award for an innovative electronic or electrical project
- Leask/Francoeur Family Awards --- 1st Place Middle School- For innovation electrical engineering or computer science - \$100 cash

Greenwich Eastern Middle School Brian Carstens

2512 L8 An Investigation Into Hydrogen-Producing Green Algae

Award 3

Student(s) Paul Hansel

Grade 8 Town Old Greenwich

- Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 8th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- Barnes Aerospace Applied Technology Awards --- 3rd Place Middle School - \$100 and Trophy, Medallion
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy
- eesmar/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- 1st Place Middle School - \$500 Cash and Trophy
- Goodrich ISR Awards for Excellence In Engineering --- \$1,000 Cash and plaque
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS



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[SchTown] [School] [Teacher]

[Proj#] [FCat] [Project Title]

Danbury St. Joseph School Mrs. Page

5032 P7 Ocean Wave and Tide Energy Project

Award m

Student(s) James Parris

Grade 7 **Town** Brookfield

- Dominion's Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion & Acrylic Award
- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- eesmart/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- American Meteorological Society --- Certificate & \$50 Amazon gift card given by CSF
- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSF

Hebron Oei Home School Mrs. Ellen Oei

5525 P8 Development of a Prototype Pendulum Wave Energy Conversion Device

Award m

Student(s) Maura Oei

Grade 8 **Town** Hebron

- Dominion's Millstone Power Station Physical Sciences Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards - with People's United Bank --- Middle School Finalist - Medallion & Acrylic Award
- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
- eesmart/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- 2nd Place Middle School - \$300 Cash and Trophy
- Goodrich ISR Awards for Excellence In Engineering --- \$1,000 Cash and plaque
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- MIT Club of Hartford K-12 Initiative --- For excellence in energy related research, middle school, \$150 cash award
- Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash
- ProConn Power Inc. Award for Sustainable Electrical Energy Research --- \$250 for Excellence in Sustainable Electrical Energy Research

Windsor Madina Academy Aisha Seyal

5530 P8 The design and construction of a superlative HHO generator and the effect of complex carbohydrates on the output of hydroxide.

Award m

Student(s) Abdulqadeer Bin Sajid

Grade 8 **Town** Bristol

- Dominion's Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award



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Winners = w

High School

Fairfield Fairfield College Preparatory School Dr. Lewis

6008 PS Novel Fiber Optic Dye Sensitized Solar Cell Aided by the Biosynthesis of Diatom Frustules

Award 1 Student(s) Kyle Ryan Grade 11 Town Trumbull

- Dominion's Millstone Power Station Physical Sciences Awards --- 3rd Place- Physical Sciences Senior High Individual - \$200 & trophy
- Barnes Aerospace Applied Technology Awards --- 1st Place High School - \$500 and Trophy, Medallion
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- 2nd Place High School - \$300 Cash and Trophy
- Goodrich ISR Awards for Excellence In Engineering --- \$1,000 Cash and plaque
- Alexion Biotechnology Awards --- 2nd Place- Biotechnology Senior High- \$400 & trophy,
- Yale Science & Engineering Association, Inc. --- Certificate, Medallion, \$50 gift card to Amazon given by CSF
- Yale Chapter of Sigma Xi, The Scientific Research Society --- Dinner at Mory's for four - with members of Yale Chapter of Sigma Xi
- Lunch with a Patent Attorney --- Lunch with a Patent Attorney

Madison Daniel Hand High School Madhuparna Roychoudhury

6517 PST Can you charge your phone wirelessly? Cordless electricity transmission by piezoelectric excitation via low frequency acoustic waves.

Award 2 Student(s) Shayan Roychoudhury Grade 9 Town Madison
Wesley Kimmel Grade 10 Town Madison

- Dominion's Millstone Power Station Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Team- \$300(split) & trophy
- Barnes Aerospace Applied Technology Awards --- 2nd Place High School - \$300 and Trophy, Medallion
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- GENIUS Olympiad --- GENIUS Olympiad Competition for HS student (s) and advisor - Energy

Greenwich Greenwich High School Andrew Bramante

6021 PS Remediation of Heavy Metals from River Water via a Novel Lemna minor Activated On-line Filtration System

Award 3 Student(s) Nicholas Dorian Grade 12 Town Riverside

- Barnes Aerospace Applied Technology Awards --- 3rd Place High School - \$ 200 and Trophy, Medallion
- Audubon Connecticut & Arch Chemicals Environmental Awards --- HS Finalist - Audubon gifts, CSF Medallion, Acrylic award
- Stockholm Junior Water Prize --- Certificate, Letter, \$50 gift card to Amazon given by CSF, possible advance to further competition

Greens Farms Greens Farms Academy Dr. Mathieu Freeman

6052 PS Paper Batteries: A Viable Lithium Ion Battery Technology

Award m Student(s) William Picoli Grade 12 Town Wilton

- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award
- Northeast Utilities: Environmental Management --- Senior - \$250 Scholarship, pollution prevention, source reduction, recycling, min. waste



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Greenwich Brunswick School Dana Montanez

6004 PS The Efficiency of Air Multiplication Technology versus the Efficiency of Bladed Fan Technology

Award m **Student(s)** Spencer McDonough **Grade** 10 **Town** Greenwich

- Barnes Aerospace Applied Technology Awards --- 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

Greenwich Greenwich High School Andrew Bramante

6032 PS Design of a Smart Brick with Improved Insulation and Intuitive Reflection of Sunlight

Award m **Student(s)** Lindsey Noskin **Grade** 11 **Town** Greenwich

- Dominion's Millstone Power Station Physical Sciences Awards --- 5th Place- Physical Sciences Senior High Individual - trophy
- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- 3rd Place High School - \$200 Cash and Trophy
- eesmarts/CT Energy Efficiency Fund Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- The National Society of Professional Engineers --- Certificate, Lapel Pin, \$50 gift card to Amazon given by CSF
- Connecticut Architecture Foundation --- \$100 Gift Certificate to Barnes and Nobles
- Northeast Utilities: Environmental Management --- Senior - \$250 Scholarship, energy conservation and renewable energy sources
- Society of Women Engineers - Hartford Section --- Scientific Calculator
- University of Connecticut - Physics Department --- UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificat
- I-SWEEEP (International Sustainable World Project Olympiad) --- I-SWEEEP Competition Invitation to submit-
- Education Connection- Center for 21st Century Skills Awards --- \$100 For innovation in science or engineering



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Final Judging Results

Alexion Biotechnology

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[Proj#] [FCat] [Project Title]

Award Legend

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

7th Grade

Orange Southern Connecticut Hebrew Academy Mrs. Howell

4010	PT	Analysis and Bioavailability of Chemical Dyes Versus Natural Dyes with their Antioxidant Benefits.
Award	1	Student(s) Chana Piekarski
		Esther Caroline
	Grade 7	Town Hamden
	Grade 7	Town New Haven

Bridgeport Thurgood Marshall Middle School Carmen Andrews

2007	L7	Peel Power
Award	2	Student(s) Jonathan Siveyer
	Grade 7	Town Monroe

Newtown St. Rose of Lima School Mrs. Dimon

1010	LT	Testing the Effect of pH Levels of Polluted Fresh Water on Elodea Canadensis Life Span
Award	3	Student(s) Lauren Cirone
		Anna Brubaker
	Grade 7	Town Newtown
	Grade 7	Town Southbury

Orange Southern Connecticut Hebrew Academy Karen Howell

1014	LT	Hydration Benefits with Fruits and Vegetables and Effect on Cell Absorption
Award	4	Student(s) Devora Hodakov
		Batsheva Lipsker
	Grade 7	Town New Haven
	Grade 7	Town Stamford

Windsor Madina Academy Aisha Seyal

2017	L7	Can homeopathic solutions inhibit the growth of Group A Streptococcus bacteria?
Award	5	Student(s) Amira Elfeky
	Grade 7	Town Simsbury

Danbury St. Joseph School Mrs. J. Page

1027	LT	Hidden Horrors: Do Germs Lurk in Our School?
Award	m	Student(s) Michael Casino
		Rachel Hewitt
	Grade 7	Town Brewster
	Grade 7	Town Danbury

New Haven Betsy Ross Arts Magnet School Mrs. Cichus

2022	L7	One Dog's Poop, Another Man's Treasure.
Award	m	Student(s) Brian Brigham
	Grade 7	Town Orange

Plantville John F. Kennedy Middle School Mrs. Pepin

1017	LT	The Effects of Global Warming on Marine Life
Award	m	Student(s) Kimberly Stafko
		Alexa Maddalena
	Grade 7	Town Southington
	Grade 7	Town Southington

8th Grade

Greenwich Eastern Middle School Brian Carstens

2512	L8	An Investigation Into Hydrogen-Producing Green Algae
Award	1	Student(s) Paul Hansel
	Grade 8	Town Old Greenwich

Orange Southern Connecticut Hebrew Academy Mrs. Karen Howell

2543	L8	Phytoremediation: Removal of metal pollutants from contaminated soil and effect of chelators
Award	2	Student(s) Alex Russell
	Grade 8	Town New Haven



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Award Legend

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Winners = w

Windsor Madina Academy Aisha Seyal

2527 L8 Manufacturing and Biodegrading Bioplastics: Observing the speed of biodegradation of potato, rice, tapioca and corn starch based plastics.

Award 3 **Student(s)** Muhammad Ali **Grade** 8 **Town** Windsor

Bethel Bethel Middle School Mr. Labounty

2516 L8 The Effect of Different Organic Materials on the Number of Ants Repelled

Award 4 **Student(s)** Nicolas Cazzaniga **Grade** 8 **Town** Bethel

Windsor St. Gabriel School Margaret Rosa

2513 L8 Out With Indigestion

Award 5 **Student(s)** Kirsten Mossberg **Grade** 8 **Town** Windsor

Fairfield Our Lady of the Assumption School Kathy Almeida

2540 L8 The Effects of De-Icing Salts and Chemical Compounds on Adiantum pedatum

Award m **Student(s)** Amanda Gerstenfeld **Grade** 8 **Town** Fairfield

High School

Westport Staples High School Alfred J. Scheetz

3046 LS Optogenetic Interrogation of Prefrontal Cortex Dopamine D1 Receptor-Containing Neurons as a Technique to Restore Timing: A Novel Approach to Treat Prefrontal Disorders

Award 1 **Student(s)** John Solder **Grade** 12 **Town** Westport

Fairfield Fairfield College Preparatory School Dr. Lewis

6008 PS Novel Fiber Optic Dye Sensitized Solar Cell Aided by the Biosynthesis of Diatom Frustules

Award 2 **Student(s)** Kyle Ryan **Grade** 11 **Town** Trumbull

Danbury Danbury High School Mr. LaRosa

3084 LS The Biological Control of Zebra Mussels Using the Marine Natural Product Aaptamine.

Award 3 **Student(s)** Janine Kerr **Grade** 9 **Town** Danbury

Greenwich Greenwich High School Andrew Bramante

3034 LS Graphene Oxide as a Novel Biosensor in Targeted Delivery of Water-Insoluble Cancer Drugs

Award 4 **Student(s)** Annie Zhang **Grade** 11 **Town** Cos Cob

Manchester East Catholic High School Ms. Holly Noble

6002 PS Polyvinylidene Fluoride (PVDF) Piezoelectric Generator: A Novel Approach to Harvesting Vibrations from Human Respiration to Power Biological Implant Devices

Award 5 **Student(s)** Bridget Oei **Grade** 10 **Town** Hebron

Danbury Danbury High School Mr. Tracey

3007 LS Antibiotic inactivation at home: A Proposal for Disposal Can antibiotics be inactivated so that they may be disposed of down the drain?

Award m **Student(s)** Fiona Lunt **Grade** 10 **Town** Danbury

Greenwich Convent of the Sacred Heart School Mary Musolino

3092 LS Creating a Cre/Lox Barcoding System: a Potential Breakthrough in Tracking the Heterogeneity of Glioblastoma Multiforme

Award m **Student(s)** Catherine Colford **Grade** 12 **Town** Scarsdale



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[SchTown] [School] [Teacher]

[Proj#] [FCat] [Project Title]

Greenwich Greenwich High School Andrew Bramante

3099 LS The regeneration of human tooth enamel in physiological conditions

Award m **Student(s)** Stephen Le Breton

Grade 11 **Town** Greenwich

Hamden Sacred Heart Academy Dr. Elizabeth Christophy

3075 LS A Study of "Ebb and Flo" Aquaponics as the Most Effective Growing System for Romaine Lettuce as Compared to a Hydroponic and an Organic, Soil-Based, Growing System

Award m **Student(s)** Olivia Kelly

Grade 10 **Town** Shelton

Hebron RHAM High School Mrs. Kristin Spinelli

6081 PS The Use of Berries from Connecticut Invasive Plants in Dye- Sensitized Solar Cells

Award m **Student(s)** Tim Breckel

Grade 9 **Town** Hebron



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

High School

Westport Staples High School Alfred J. Scheetz

3046 LS Optogenetic Interrogation of Prefrontal Cortex Dopamine D1 Receptor-Containing Neurons as a Technique to Restore Timing: A Novel Approach to Treat Prefrontal Disorders

Award Student(s) John Solder Grade 12 Town Westport

- Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High- \$500 & trophy, Trip to compete at Intel ISEF
- Goodrich ISR Awards for Excellence In Engineering --- \$1,000 Cash and plaque
- H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Life Sciences Senior - \$1,000 cash, Solid Silver Medal of Excellence, invite to CASE Annual Mtg
- Alexion Biotechnology Awards --- 1st Place- Biotechnology Senior High- Trip to compete at Intel ISEF, \$500 & trophy,
- Connecticut Science Supervisors Association --- \$125 for a high school project

Greenwich Greenwich High School Andrew Bramante

6049 PS An Organic Thin Film Transistor and Elastic Organic Solar Cell Based Electronic Skin for Biochemical and Tactile Sensing

Award Student(s) Ryota Ishizuka Grade 12 Town Cos Cob

- Dominion's Millstone Power Station Physical Sciences Awards --- 1st Place - Physical Sciences Senior High Individual - \$500 & trophy, trip to compete at Intel ISEF
- 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 Senior - \$1,000 cash, Solid Silver Medal of Excellence, invite to CASE Annual Mtg
- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate
- IEEE, Connecticut Section --- \$250 Honors Award -Senior
- Coherent, Inc. Richard Hart Award for Excellence in Photonics --- \$300 cash, plaque, invitation to lunch and tour Coherent factory
- Arthur Mensing Award --- \$500 cash award for excellence in the physical sciences



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Computer Science

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Award Legend

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

Middle School

Bozrah Fields Memorial School Mrs. E Brown

5234

L8

Password Security

Award

1

Student(s) Connor Provost

Grade 8

Town Bozrah

- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards - with People's United Bank --- 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
- IEEE, Connecticut Section --- \$100 Honorable Mention

Bozrah Fields Memorial School Mrs. E Brown

5021

P7

What variables affect the grasp efficiency of a robotic arm?

Award

2

Student(s) Emily O'Connor

Grade 7

Town Bozrah

- Dominion's Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion & Acrylic Award
- Xerox Computer Science Awards --- 2nd Place Middle School - \$200, Trophy and Medallion
- IEEE, Connecticut Section --- \$100 Honorable Mention

Avon Talcott Mountain Academy John Pellino

2525

L8

How Do Different Colors and Sizes Affect Memory

Award

3

Student(s) Mark Shapiro

Grade 8

Town Glastonbury

- Xerox Computer Science Awards --- 3rd Place Middle School- \$100, Trophy, Medallion

Danbury St. Peter-Sacred Heart Upper School Mr. Greg Capone

5505

P8

Programming NANORGS in a Virtual World

Award

m

Student(s) Gabriel Correa

Grade 8

Town Danbury

- Xerox Computer Science Awards --- Middle School Finalist - Medallion, Acrylic Award

Norwalk The Montessori Middle School Carolyn Ogden-Stenerson

5521

P8

Experimental Evaluation of Techniques for Protecting Users from Malware Attacks

Award

m

Student(s) Samyukt Kumar

Grade 8

Town Stamford

- Xerox Computer Science Awards --- Middle School Finalist - Medallion, Acrylic Award
- IEEE, Connecticut Section --- \$100 Honorable Mention



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Computer Science

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

High School

Woodbridge Amity Regional High School Deborah Day

6006	PS	Effect of Indexing String Length On Speed and Memory Usage for Digital Karyotyping Query Algorithms
Award	1	Student(s) Jordan Henck Grade 11 Town Woodbridge

- Xerox Computer Science Awards --- 1st Place High School - \$400, Trophy, Medallion
- Intel Excellence in Computer Science Award --- \$200 & certificate
- Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a High School student, \$200 cash
- Leask/Francoeur Family Awards --- 1st Place High School- For innovation electrical engineering or computer science - \$200 cash

Shelton Shelton High School Mrs. Dunham

6066	PS	Revolutionizing Cancer Treatment: A Simulation of Nanocarriers Using Swarm Intelligence for Targeted Cancer Cells
Award	2	Student(s) Rigel Mahmood Grade 10 Town Shelton

- Dominion's Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- Xerox Computer Science Awards --- 2nd Place High School - \$300, Trophy, Medallion
- Intel Excellence in Computer Science Award --- \$200 & certificate
- IEEE, Connecticut Section --- \$100 Honorable Mention

Shelton Shelton High School Mr. Nazzaro

6516	PST	What is the Fastest Way to Solve a Sudoku Puzzle?
Award	3	Student(s) Ryan Zuklie Grade 12 Town Shelton
		Alex Wicek Grade 12 Town Shelton
		Mike Dellolio Grade 12 Town Shelton

- Dominion's Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion & Acrylic Award
- Xerox Computer Science Awards --- 3rd Place High School- \$200, Trophy, Medallion

Bridgeport Central High School Ms. Sullivan

6525	PST	Javonic Bonding
Award	m	Student(s) Monsurat Olaosebikan Grade 11 Town Bridgeport
		Carolyn Roach Grade 11 Town Bridgeport
		Jaymi Gooden Grade 11 Town Bridgeport

- Urban School Challenge Awards --- Senior High Finalist - Medallion and acrylic award
- Xerox Computer Science Awards --- Senior High Finalist - Medallion, Acrylic Award



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Computer Science

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Norwich Norwich Free Academy Mrs. Jones

6016

PS

Utilizing a Robotic Turning Mechanism to Focus on the Sun in Order to Maximize the Efficiency of a Parabolic Trough Water Heating System

Award

m

Student(s) Remington Carle

Grade 11 **Town** Norwich

- Dominion's Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- Xerox Computer Science Awards --- Senior High Finalist - Medallion, Acrylic Award
- eesmart/CT Energy Efficiency Fund Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- Connecticut Association of Physics Teachers --- \$100 Senior project
- IEEE, Connecticut Section --- \$100 Honorable Mention
- I-SWEEEP (International Sustainable World Project Olympiad) --- I-SWEEEP Competition for student (2) and advisor



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Goodrich Engineering Awards

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

Middle School

Greenwich Eastern Middle School Brian Carstens

2512 L8 An Investigation Into Hydrogen-Producing Green Algae

Award **Student(s)** Paul Hansel **Grade 8** **Town** Old Greenwich

- Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 8th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- Barnes Aerospace Applied Technology Awards --- 3rd Place Middle School - \$100 and Trophy, Medallion
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy
- eesmarts/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- 1st Place Middle School - \$500 Cash and Trophy
- Goodrich ISR Awards for Excellence In Engineering --- \$1,000 Cash and plaque
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS

Plantsville John F. Kennedy Middle School Pepin

4015 PT The Windy 500: The Test of Drag and Down Force on Rear Spoilers

Award **Student(s)** Emily Maciejewski **Grade 8** **Town** Plantsville
Laura Koba **Grade 8** **Town** Southington

- Dominion's Millstone Power Station Physical Sciences Awards --- 1st Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
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- U.S. Air Force --- Certificate, sport bag, speaker, organizer

Hebron Oei Home School Mrs. Ellen Oei

5525 P8 Development of a Prototype Pendulum Wave Energy Conversion Device

Award **Student(s)** Maura Oei **Grade 8** **Town** Hebron

- Dominion's Millstone Power Station Physical Sciences Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards - with People's United Bank --- Middle School Finalist - Medallion & Arcylic Award
- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
- eesmarts/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- 2nd Place Middle School - \$300 Cash and Trophy
- Goodrich ISR Awards for Excellence In Engineering --- \$1,000 Cash and plaque
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- MIT Club of Hartford K-12 Initiative --- For excellence in energy related research, middle school, \$150 cash award
- Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash
- ProConn Power Inc. Award for Sustainable Electrical Energy Research --- \$250 for Excellence in Sustainable Electrical Energy Research



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Goodrich Engineering Awards

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

High School

Greenwich Greenwich High School Andrew Bramante

3042 LS Mycoremediation of PCB Soil Contaminants with Pleurotus Ostreatus

Award Student(s) Mallory Madfes Grade 11 Town Greenwich

- Pfizer Life Sciences Awards --- 3rd Place- Life Sciences Senior High- \$200 & trophy
- Audubon Connecticut & Arch Chemicals Environmental Awards --- 3rd Place HS- \$100, Trophy, Audubon gifts
- eesmarks/CT Energy Efficiency Fund Future Sustainability Awards --- 3rd Place High School - \$300 Cash and Trophy
- Goodrich ISR Awards for Excellence In Engineering --- \$1,000 Cash and plaque
- U.S. Metric Association --- Certificate & \$50 gift card to Amazon given by CSF
- Long Island Sound Foundation, Inc. --- \$500 Life Science/Environmental Science/Physical science
- GENIUS Olympiad --- GENIUS Olympiad Competition for HS student (s) and advisor - Environmental

Westport Staples High School Alfred J. Scheetz

3046 LS Optogenetic Interrogation of Prefrontal Cortex Dopamine D1 Receptor-Containing Neurons as a Technique to Restore Timing: A Novel Approach to Treat Prefrontal Disorders

Award Student(s) John Solder Grade 12 Town Westport

- Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High- \$500 & trophy, Trip to compete at Intel ISEF
- Goodrich ISR Awards for Excellence In Engineering --- \$1,000 Cash and plaque
- H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Life Sciences Senior - \$1,000 cash, Solid Silver Medal of Excellence, invite to CASE Annual Mtg
- Alexion Biotechnology Awards --- 1st Place- Biotechnology Senior High- Trip to compete at Intel ISEF, \$500 & trophy,
- Connecticut Science Supervisors Association --- \$125 for a high school project

Manchester East Catholic High School Ms. Holly Noble

6002 PS Polyvinylidene Fluoride (PVDF) Piezoelectric Generator: A Novel Approach to Harvesting Vibrations from Human Respiration to Power Biological Implant Devices

Award Student(s) Bridget Oei Grade 10 Town Hebron

- Dominion's Millstone Power Station Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & trophy, trip to compete at Intel ISEF
- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards - with People's United Bank --- High School Finalist - Medallion & Acrylic Award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Trophy
- eesmarks/CT Energy Efficiency Fund Future Sustainability Awards --- 2nd Place High School - \$500 Cash and Trophy and Trip to Compete I-SWEEEP, Houston
- Goodrich ISR Awards for Excellence In Engineering --- \$1,000 Cash and plaque
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- trophy
- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate1
- CT Technology Council Youth Innovation Award --- \$150 Cash Award for Technological Innovation
- I-SWEEEP (International Sustainable World Project Olympiad) --- I-SWEEEP Competition for student (2) and advisor - 2nd Place HS Future Sustainability



Connecticut Science Fair

Quinnipiac University

March 13 - 17, 2012

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Final Judging Results

Goodrich Engineering Awards

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

Award Legend

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

Fairfield Fairfield College Preparatory School Dr. Lewis

6008 PS Novel Fiber Optic Dye Sensitized Solar Cell Aided by the Biosynthesis of Diatom Frustules

Award

Student(s) Kyle Ryan

Grade 11 **Town** Trumbull

- Dominion's Millstone Power Station Physical Sciences Awards --- 3rd Place- Physical Sciences Senior High Individual - \$200 & trophy
- Barnes Aerospace Applied Technology Awards --- 1st Place High School - \$500 and Trophy, Medallion
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- 2nd Place High School - \$300 Cash and Trophy
- Goodrich ISR Awards for Excellence In Engineering --- \$1,000 Cash and plaque
- Alexion Biotechnology Awards --- 2nd Place- Biotechnology Senior High- \$400 & trophy,
- Yale Science & Engineering Association, Inc. --- Certificate, Medallion,\$50 gift card to Amazon given by CSF
- Yale Chapter of Sigma Xi, The Scientific Research Society --- Dinner at Mory's for four - with members of Yale Chapter of Sigma Xi
- Lunch with a Patent Attorney --- Lunch with a Patent Attorney



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Final Judging Results

Award Legend

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

CT Clean Energy Award

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

Middle School

Hebron Oei Home School Mrs. Ellen Oei

5525 P8 Development of a Prototype Pendulum Wave Energy Conversion Device

Award 1 **Student(s)** Maura Oei **Grade** 8 **Town** Hebron

- Dominion's Millstone Power Station Physical Sciences Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards - with People's United Bank --- Middle School Finalist - Medallion & Arcylic Award
- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
- eesmarts/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- 2nd Place Middle School - \$300 Cash and Trophy
- Goodrich ISR Awards for Excellence In Engineering --- \$1,000 Cash and plaque
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- MIT Club of Hartford K-12 Initiative --- For excellence in energy related research, middle school, \$150 cash award
- Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash
- ProConn Power Inc. Award for Sustainable Electrical Energy Research --- \$250 for Excellence in Sustainable Electrical Energy Research

Danbury St. Joseph School Mrs. Page

5005 P7 Designing an Effective Dye-Sensitized Solar Cells

Award 2 **Student(s)** Martha Haddad **Grade** 7 **Town** Danbury

- Dominion's Millstone Power Station Physical Sciences Awards --- 3rd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- ASM Materials Education Foundation --- Certificate & \$50 gift card to Amazon given by CSF & medallion
- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSF

Greenwich Eastern Middle School Brian Carstens

2512 L8 An Investigation Into Hydrogen-Producing Green Algae

Award 3 **Student(s)** Paul Hansel **Grade** 8 **Town** Old Greenwich

- Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 8th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- Barnes Aerospace Applied Technology Awards --- 3rd Place Middle School - \$100 and Trophy, Medallion
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy
- eesmarts/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- 1st Place Middle School - \$500 Cash and Trophy
- Goodrich ISR Awards for Excellence In Engineering --- \$1,000 Cash and plaque
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS



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Final Judging Results

Award Legend

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Winners = w

CT Clean Energy Award

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

Glastonbury Smith Middle School Mr. Falcigno

5528 P8 On the Application of Electrochemical Double Layer Capacitors

Award m **Student(s)** Paul Han **Grade 8** **Town** Glastonbury

- Dominion's Millstone Power Station Physical Sciences Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & trophy, invite to compete Broadcom MASTERS
- Barnes Aerospace Applied Technology Awards --- 2nd Place Middle School - \$200 and Trophy, Medallion
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award
- Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Science 8th Grade - \$500 and invite to CSTA Award Banquet
- IEEE, Connecticut Section --- \$250 Honors Award -Junior
- Barker Mohandas Award for Transportation Research --- \$250 Cash for Excellence in Transportation Related Research
- John B. Trevor Award in Electrical Engineering --- \$500 cash award for an innovative electronic or electrical project
- Leask/Francoeur Family Awards --- 1st Place Middle School- For innovation electrical engineering or computer science - \$100 cash

Glastonbury Smith Middle School Mr. Falcigno

4027 PT Solar Panel in Greenhouse

Award m **Student(s)** Ninad Vora **Grade 7** **Town** Glastonbury
Soham Kale **Grade 7** **Town** Glastonbury

- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report

Manchester St. Bridget School Kim Maysonet

5502 P8 The Stirling Engine and the Effect of Temperature Differential on Engine Performance

Award m **Student(s)** Nicole Robitaille **Grade 8** **Town** Manchester

- Dominion's Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award
- Society of Women Engineers - Hartford Section --- Scientific Calculator

New Haven Worthington Hooker Middle School Doug Jones

4024 PT Increasing Solar Energy

Award m **Student(s)** Joshua Levine-Ritterman **Grade 8** **Town** New Haven
Foster Hall **Grade 8** **Town** New Haven

- Dominion's Millstone Power Station Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion & Acrylic Award
- Urban School Challenge Awards --- Middle School Finalist - Medallion and acrylic award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award



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Winners = w

CT Clean Energy Award

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

Stratford St. Mark School Mr. Phil Flynn

5022 P7 A Bright Idea: Comparing the Efficiency of Incandescent, CFL, and LED Light Bulbs

Award m **Student(s)** Megan Robertson **Grade 7** **Town** Stratford

- Dominion's Millstone Power Station Physical Sciences Awards --- 4th Place- Physical Sciences 7th Grade Ind. - trophy, invite to compete Broadcom MASTERS
- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards - with People's United Bank --- Middle School Finalist - Medallion & Arcylic Award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award
- Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School, Physical Sciences
- Wilfred A. Müller Award --- \$150 cash award for creative use of mathematics

Wilton Middlebrook School Robert Moya

5019 P7 Improving Efficiency of Solar Energy

Award m **Student(s)** Kevin Moya **Grade 7** **Town** Wilton

- Dominion's Millstone Power Station Physical Sciences Awards --- 2nd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award

Windsor Madina Academy Aisha Seyal

5033 P7 Charge your device in a power blackout: Effective methods to generate electricity from heat and solar energy using thermoelectric generators

Award m **Student(s)** Osama ElSherbini **Grade 7** **Town** Windsor

- Dominion's Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion & Acrylic Award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award
- eesmarks/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy



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Medalists = m
Winners = w

CT Clean Energy Award

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

High School

Manchester East Catholic High School Ms. Holly Noble

6002 PS Polyvinylidene Fluoride (PVDF) Piezoelectric Generator: A Novel Approach to Harvesting Vibrations from Human Respiration to Power Biological Implant Devices

Award 1 **Student(s)** Bridget Oei **Grade** 10 **Town** Hebron

- Dominion's Millstone Power Station Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & trophy, trip to compete at Intel ISEF
- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards - with People's United Bank --- High School Finalist - Medallion & Acrylic Award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Trophy
- eesmarts/CT Energy Efficiency Fund Future Sustainability Awards --- 2nd Place High School - \$500 Cash and Trophy and Trip to Compete I-SWEEEP, Houston
- Goodrich ISR Awards for Excellence In Engineering --- \$1,000 Cash and plaque
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- trophy
- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate1
- CT Technology Council Youth Innovation Award --- \$150 Cash Award for Technological Innovation
- I-SWEEEP (International Sustainable World Project Olympiad) --- I-SWEEEP Competition for student (2) and advisor - 2nd Place HS Future Sustainability

Fairfield Fairfield College Preparatory School Dr. Lewis

6008 PS Novel Fiber Optic Dye Sensitized Solar Cell Aided by the Biosynthesis of Diatom Frustules

Award 2 **Student(s)** Kyle Ryan **Grade** 11 **Town** Trumbull

- Dominion's Millstone Power Station Physical Sciences Awards --- 3rd Place- Physical Sciences Senior High Individual - \$200 & trophy
- Barnes Aerospace Applied Technology Awards --- 1st Place High School - \$500 and Trophy, Medallion
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- 2nd Place High School - \$300 Cash and Trophy
- Goodrich ISR Awards for Excellence In Engineering --- \$1,000 Cash and plaque
- Alexion Biotechnology Awards --- 2nd Place- Biotechnology Senior High- \$400 & trophy,
- Yale Science & Engineering Association, Inc. --- Certificate, Medallion, \$50 gift card to Amazon given by CSF
- Yale Chapter of Sigma Xi, The Scientific Research Society --- Dinner at Mory's for four - with members of Yale Chapter of Sigma Xi
- Lunch with a Patent Attorney --- Lunch with a Patent Attorney



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CT Clean Energy Award

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

Greenwich Greenwich High School Andrew Bramante

6032 PS Design of a Smart Brick with Improved Insulation and Intuitive Reflection of Sunlight

Award 3 **Student(s)** Lindsey Noskin **Grade** 11 **Town** Greenwich

- Dominion's Millstone Power Station Physical Sciences Awards --- 5th Place- Physical Sciences Senior High Individual - trophy
- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- 3rd Place High School - \$200 Cash and Trophy
- eesmarts/CT Energy Efficiency Fund Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- The National Society of Professional Engineers --- Certificate, Lapel Pin, \$50 gift card to Amazon given by CSF
- Connecticut Architecture Foundation --- \$100 Gift Certificate to Barnes and Nobles
- Northeast Utilities: Environmental Management --- Senior - \$250 Scholarship, energy conservation and renewable energy sources
- Society of Women Engineers - Hartford Section --- Scientific Calculator
- University of Connecticut - Physics Department --- UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificate
- I-SWEEEP (International Sustainable World Project Olympiad) --- I-SWEEEP Competition Invitation to submit-
- Education Connection- Center for 21st Century Skills Awards --- \$100 For innovation in science or engineering

Danbury Immaculate High School Mrs. Murphy

3510 LST Microbial Fuel Cell Efficiency and Design

Award m **Student(s)** Merna Haddad **Grade** 11 **Town** Danbury
Adriana DeNardis **Grade** 11 **Town** Danbury

- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion & Acrylic Award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- High School Finalist - Medallion

Greens Farms Greens Farms Academy Tracy Haswell

3026 LS Algae Biodiesel

Award m **Student(s)** Emily Petno **Grade** 12 **Town** New Canaan

- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- eesmarts/CT Energy Efficiency Fund Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award

Greenwich Brunswick School Mrs. Dana Montanez

6501 PST A Comparative Analysis of Bio-Diesel Emissions Versus Emissions of Petroleum Diesel

Award m **Student(s)** Matthew Mayfield **Grade** 11 **Town** Greenwich
Vikram Bodas **Grade** 10 **Town** Greenwich

- Dominion's Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion & Acrylic Award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report



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Final Judging Results

Award Legend

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Winners = w

CT Clean Energy Award

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

Greenwich Greenwich High School Andrew Bramante

6079 PS Recovery of Light Hydrocarbon Fuels from PETE Recycling with Concurrent Reduction in the Recyclable Footprint

Award m **Student(s)** Clara Eizayaga **Grade** 11 **Town** Riverside

- Dominion's Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- U.S. Metric Association --- Certificate & \$50 gift card to Amazon given by CSF
- Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related
- MIT Club of Hartford K-12 Initiative --- For excellence in energy related research, high school, \$150 cash award

Greenwich Greenwich High School Andrew Bramante

6075 PS Application of iDS-PBR to Prolongate Algal Photobiolysis in *C. Reinhardtii*

Award m **Student(s)** Thomas Yang **Grade** 11 **Town** Greenwich

- Dominion's Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- eesmarks/CT Energy Efficiency Fund Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award

Hebron RHAM High School Mrs. Kristin Spinelli

6081 PS The Use of Berries from Connecticut Invasive Plants in Dye- Sensitized Solar Cells

Award m **Student(s)** Tim Breckel **Grade** 9 **Town** Hebron

- Audubon Connecticut & Arch Chemicals Environmental Awards --- HS Finalist - Audubon gifts, CSF Medallion, Acrylic award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award Souvenir

Madison Daniel Hand High School Madhuparna Roychoudhury

6517 PST Can you charge your phone wirelessly? Cordless electricity transmission by piezoelectric excitation via low frequency acoustic waves.

Award m **Student(s)** Shayan Roychoudhury **Grade** 9 **Town** Madison
Wesley Kimmel **Grade** 10 **Town** Madison

- Dominion's Millstone Power Station Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Team- \$300(split) & trophy
- Barnes Aerospace Applied Technology Awards --- 2nd Place High School - \$300 and Trophy, Medallion
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- GENIUS Olympiad --- GENIUS Olympiad Competition for HS student (s) and advisor - Energy



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Final Judging Results

CT Clean Energy Award

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

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

Middletown Xavier High School Manoj Rahematpura

6515 PST Testing the Viability of Adaptive Winglet Technology to Improve Fuel Efficiency on Midsize Commercial Airliners using Computational Fluid Dynamics

Award m

Student(s) Christopher Muckle
Miraj Rahematpura
Mario Chris

Grade 12 Town Madison
Grade 12 Town Middletown
Grade 11 Town Storrs

- Dominion's Millstone Power Station Physical Sciences Awards --- 1st Place- Physical Sciences Senior High Team- \$500 (split) & trophy
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate
- I-SWEEEP (International Sustainable World Project Olympiad) --- I-SWEEEP Competition for student (2) and advisor

Norwich Norwich Free Academy Mr. Scanlon

6007 PS Role of Electro-Chemical Double Layer Capacitors in Energy Storage

Award m

Student(s) Ian Dakers

Grade 12 Town Bozrah

- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- High School Finalist - Medallion

Putnam Putnam Science Academy Hakan Duman

6513 PST Using Environmental Friendly and Cost Effective Ferrofluid Magnetite as an Adsorbing Agent to Efficiently Remove Petroleum Spills from Water Sources and its Commercial Application with a Robot Arm

Award m

Student(s) Zekeriya Abacioglu
Bahadir Ozenturk

Grade 12 Town Putnam
Grade 12 Town Putnam

- Dominion's Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion & Acrylic Award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- High School Finalist - Medallion

Storrs E. O. Smith High School Robert Pirrie

6026 PS Membranes for Biochemical Separations

Award m

Student(s) Paula Chen

Grade 11 Town Storrs

- Dominion's Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- Yale Science & Engineering Association, Inc. --- Certificate, Medallion, \$50 gift card to Amazon given by CSF

Westport Staples High School Dr. Nick Morgan

3037 LS The Application of the Photosynthetic Hydrogen Production of *C. reinhardtii* in Hydrogen Fuel Cells

Award m

Student(s) Jay Tsai

Grade 12 Town Westport

- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- Education Connection- Center for 21st Century Skills Awards --- \$100 For innovation in science or engineering



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Winners = w

Environmental Sciences

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

Middle School

Avon Talcott Mountain Academy Tom Noonan

5209 L8 Do Ambient Temperatures Affect Bat Mortality?

Award 1 **Student(s)** Gwynne Domashinski **Grade** 8 **Town** West Suffield

- Audubon Connecticut & Arch Chemicals Environmental Awards --- 1st Place MS - \$300, Trophy, Audubon gifts
- Yale Peabody Museum --- One year family membership

Newtown St. Rose of Lima School Mrs. Dimon

5025 P7 The Investigation of the Presence of Caffeine in Groundwater and Sewage

Award 2 **Student(s)** Grace Herrick **Grade** 7 **Town** Sandy Hook

- Dominion's Millstone Power Station Physical Sciences Awards --- 1st Place- Physical Sciences 7th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
- Audubon Connecticut & Arch Chemicals Environmental Awards --- 2nd Place MS- \$200, Trophy, Audubon gifts
- Association for Women Geoscientists --- Certificate & \$50 gift card to Amazon given by CSF
- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSF

Windsor Madina Academy Aisha Seyal

5257 L8 Manufacturing and Biodegrading Bioplastics: Observing the speed of biodegradation of potato, rice, tapioca and corn starch based plastics.

Award 3 **Student(s)** Muhammad Ali **Grade** 8 **Town** Windsor

- Pfizer Life Sciences Awards --- 4th Place- Life Sciences 8th grade- trophy and Invite to Compete Broadcom MASTERS
- Audubon Connecticut & Arch Chemicals Environmental Awards --- 3rd Place MS- \$100, Trophy, Audubon gifts
- eesmarks/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- 3rd Place Middle School - \$200 Cash and Trophy
- Alexion Biotechnology Awards --- 3rd Place- Biotechnology 8th grade- \$100 & trophy and Invitation Compete in Broadcom MASTERS
- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSF
- Talcott Mountain Science Center --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Life Science
- Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner

Bethel Bethel Middle School Mr. Labounty

2516 L8 The Effect of Different Organic Materials on the Number of Ants Repelled

Award m **Student(s)** Nicolas Cazzaniga **Grade** 8 **Town** Bethel

- Pfizer Life Sciences Awards --- 5th Place- Life Sciences 8th grade- trophy and Invite to Compete Broadcom MASTERS
- Audubon Connecticut & Arch Chemicals Environmental Awards --- MS Finalist - Audubon gifts, CSF Medallion, Acrylic award
- Alexion Biotechnology Awards --- 4th Place- Biotechnology 8th grade- trophy and Invitation Compete in Broadcom MASTERS



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Final Judging Results

Award Legend

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Medalists = m
Winners = w

Environmental Sciences

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

Bozrah Fields Memorial School Mrs. E Brown

2503 L8 Teredo Navalys - A Population Density Study

Award m

Student(s) Nicholas Tatro

Grade 8 Town Bozrah

- Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion & Acrylic Award
- Audubon Connecticut & Arch Chemicals Environmental Awards --- MS Finalist - Audubon gifts, CSF Medallion, Acrylic award
- Long Island Sound Foundation, Inc. --- \$500 Life Science/Environmental Science/Physical science
- Project Oceanology --- Individual - Book + 2 tickets, First Place Junior, check for \$100, t-shirt
- Banning Family Life Science Award --- For excellence in invasive species research, \$100 cash

Bridgeport Thurgood Marshall Middle School Carmen Andrews

2501 L8 Rock the Brownfields Green: Food for Fungi

Award m

Student(s) Ann Hewitt

Grade 8 Town Fairfield

- Audubon Connecticut & Arch Chemicals Environmental Awards --- MS Finalist - Audubon gifts, CSF Medallion, Acrylic award
- eesmarks/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy

Orange Southern Connecticut Hebrew Academy Karen J Howell

2507 L8 Analysis of Local Watershed and River Contaminated Sediments, and Effect on River and Long Island Sound Waters

Award m

Student(s) Hadassah Sessel

Grade 8 Town Orange

- Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 8th grade- \$200 & trophy and Invite to Compete Broadcom MASTERS
- Audubon Connecticut & Arch Chemicals Environmental Awards --- MS Finalist - Audubon gifts, 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 CSF
- Long Island Sound Foundation, Inc. --- \$500 Life Science/Environmental Science/Physical science
- Southeastern New England Marine Educators --- \$75 award and membership in SENEME - 1st Place Junior & T-Shirt
- Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash
- The Maritime Aquarium Environmental Stewardship Award --- 1 year Family Membership, Family iMax, Family Cruise.

Windsor Madina Academy Aisha Seyal

2515 L8 Polypropylene Oil Magnets: A comparison of this novel approach using ferrofluids to established methods of oil spill removal including OEMs, woodchips, hay, and compost.

Award m

Student(s) Ayesha Khan

Grade 8 Town Windsor

- Audubon Connecticut & Arch Chemicals Environmental Awards --- MS Finalist - Audubon gifts, CSF Medallion, Acrylic award
- eesmarks/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- U.S. Air Force --- Certificarte, sport bag, speaker, organizer



Connecticut Science Fair

Quinnipiac University

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Final Judging Results

Award Legend

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

Environmental Sciences

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

High School

Danbury Danbury High School Mr. LaRosa

3084 LS The Biological Control of Zebra Mussels Using the Marine Natural Product Aaptamine.

Award 1 Student(s) Janine Kerr Grade 9 Town Danbury

- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
- Audubon Connecticut & Arch Chemicals Environmental Awards --- 1st Place HS- \$500, Trophy, Audubon gifts
- Alexion Biotechnology Awards --- 3rd Place- Biotechnology Senior High- \$300 & trophy
- The Goodwin-Niering Center for the Environment --- \$100 for "Excellence in Environmental Conservation Studies"
- Southeastern New England Marine Educators --- \$75 award and membership in SENEME - 1st Place Senior & T-Shirt
- Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Life Sciences
- GENIUS Olympiad --- GENIUS Olympiad Competition for HS student (s) and advisor - Biodiversity

East Hartford Connecticut IB Academy Ms. MeghanTwohig

3052 LS The Effectiveness of P.virgatum inoculated with Mycorrhizal fungi at remediating forlmaldehyde (Voc) in a controlled environment

Award 2 Student(s) Marrium Qureshi Grade 11 Town Windsor

- Audubon Connecticut & Arch Chemicals Environmental Awards --- 2nd Place HS- \$200, Trophy, Audubon gifts

Greenwich Greenwich High School Andrew Bramante

3042 LS Mycoremediation of PCB Soil Contaminants with Pleurotus Ostreatus

Award 3 Student(s) Mallory Madfes Grade 11 Town Greenwich

- Pfizer Life Sciences Awards --- 3rd Place- Life Sciences Senior High- \$200 & trophy
- Audubon Connecticut & Arch Chemicals Environmental Awards --- 3rd Place HS- \$100, Trophy, Audubon gifts
- eesmarks/CT Energy Efficiency Fund Future Sustainability Awards --- 3rd Place High School - \$300 Cash and Trophy
- Goodrich ISR Awards for Excellence In Engineering --- \$1,000 Cash and plaque
- U.S. Metric Association --- Certificate & \$50 gift card to Amazon given by CSF
- Long Island Sound Foundation, Inc. --- \$500 Life Science/Environmental Science/Physical science
- GENIUS Olympiad --- GENIUS Olympiad Competition for HS student (s) and advisor - Environmental

Bethel Bethel High School Turek

3079 LS Pigeon Talk: A Bio-acoustical Analysis of Variation in Male Fantail Pigeon Display Calls

Award m Student(s) Aiden Ford Grade 11 Town Bethel

- Audubon Connecticut & Arch Chemicals Environmental Awards --- HS Finalist - Audubon gifts, CSF Medallion, Arylic award



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Final Judging Results

Environmental Sciences

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

Award Legend

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

Bridgeport Bridgeport Aquaculture School Mr. Shadle

6031 PS The Investigation of the Role of Methylating Bacteria in the Reintroduction Of Mercury into Long Island Sound

Award m Student(s) Allison Haley Grade 12 Town Shelton

- Dominion's Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- Urban School Challenge Awards --- 3rd Place High School - \$ 200 and Trophy, Medallion
- Audubon Connecticut & Arch Chemicals Environmental Awards --- HS Finalist - Audubon gifts, CSF Medallion, Acrylic award
- Long Island Sound Foundation, Inc. --- \$500 Life Science/Environmental Science/Physical science
- Project Oceanology --- Individual - Book + 2 tickets, First Place Senior, check for \$100, t-shirt
- The Maritime Aquarium Environmental Stewardship Award --- 1 year Family Membership, Family iMax, Family Cruise
- GENIUS Olympiad --- GENIUS Olympiad Competition for HS student (s) and advisor - Ecology

Greenwich Greenwich High School Andrew Bramante

6021 PS Remediation of Heavy Metals from River Water via a Novel Lemna minor Activated On-line Filtration System

Award m Student(s) Nicholas Dorian Grade 12 Town Riverside

- Barnes Aerospace Applied Technology Awards --- 3rd Place High School - \$ 200 and Trophy, Medallion
- Audubon Connecticut & Arch Chemicals Environmental Awards --- HS Finalist - Audubon gifts, CSF Medallion, Acrylic award
- Stockholm Junior Water Prize --- Certificate, Letter, \$50 gift card to Amazon given by CSF, possible advance to further competition

Greenwich Greenwich High School Andrew Bramante

6063 PS Simplified Detection of Aromatic Nitroamine Pesticides using Bee Venom Luminescence

Award m Student(s) Brittney Lew Grade 11 Town Riverside

- Dominion's Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- Audubon Connecticut & Arch Chemicals Environmental Awards --- HS Finalist - Audubon gifts, CSF Medallion, Acrylic award
- Society of Women Engineers - Hartford Section --- Scientific Calculator

Greenwich Greenwich High School Andrew Bramante

3070 LS Non-Invasive Dissipation of 2,4-D Pesticide in Standing Water Using Iris Versicolor

Award m Student(s) Anne Merrill Grade 10 Town Old Greenwich

- Audubon Connecticut & Arch Chemicals Environmental Awards --- HS Finalist - Audubon gifts, CSF Medallion, Acrylic award
- eesmar/CT Energy Efficiency Fund Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- Stockholm Junior Water Prize --- Certificate, Letter, \$50 gift card to Amazon given by CSF, possible advance to further competition

Greenwich Greenwich High School Andrew Bramante

3074 LS Novel Removal of Escherichia Coli 0157:H7 from Fresh Water Sources using Amino Acid Attractants

Award m Student(s) Shira Rieke Grade 10 Town Old Greenwich

- Audubon Connecticut & Arch Chemicals Environmental Awards --- HS Finalist - Audubon gifts, CSF Medallion, Acrylic award



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Final Judging Results

Environmental Sciences

Award Legend

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

[SchTown] [School] [Teacher]

[Proj#] [FCat] [Project Title]

Hebron RHAM High School Mrs. Kristin Spinelli

6081 PS The Use of Berries from Connecticut Invasive Plants in Dye- Sensitized Solar Cells

Award m **Student(s)** Tim Breckel **Grade** 9 **Town** Hebron

- Audubon Connecticut & Arch Chemicals Environmental Awards --- HS Finalist - Audubon gifts, CSF Medallion, Arylic award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award Souvenir

Woodbridge Amity Regional High School Deborah Day

3059 LS The effect of different Northern Catalpa Bark chemicals on Pogonomrymex

Award m **Student(s)** Brian Liang **Grade** 11 **Town** Bethany

- Audubon Connecticut & Arch Chemicals Environmental Awards --- HS Finalist - Audubon gifts, CSF Medallion, Arylic award



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Final Judging Results

Future Sustainability

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

Award Legend

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

High School

Redding Joel Barlow High School Katherine Nuzzo

6076 PS Surfactants: Emulsification Effects of Synthetic, Microbial and Plant-Derived Surfactants

Award 1 **Student(s)** Morgan Jordan **Grade** 12 **Town** Easton

- eesmarks/CT Energy Efficiency Fund Future Sustainability Awards --- 1st Place High School - \$800 Cash, Trophy, and Trip to Compete I-SWEEEP, Houston
- Quinnipiac University Scholarships --- \$20,000, 4 year scholarship to Quinnipiac University for High School Student
- I-SWEEEP (International Sustainable World Project Olympiad) --- I-SWEEEP Competition for student (2) and advisor - 1st Place HS Future Sustainability

Manchester East Catholic High School Ms. Holly Noble

6002 PS Polyvinylidene Fluoride (PVDF) Piezoelectric Generator: A Novel Approach to Harvesting Vibrations from Human Respiration to Power Biological Implant Devices

Award 2 **Student(s)** Bridget Oei **Grade** 10 **Town** Hebron

- Dominion's Millstone Power Station Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & trophy, trip to compete at Intel ISEF
- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards - with People's United Bank --- High School Finalist - Medallion & Acrylic Award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Trophy
- eesmarks/CT Energy Efficiency Fund Future Sustainability Awards --- 2nd Place High School - \$500 Cash and Trophy and Trip to Compete I-SWEEEP, Houston
- Goodrich ISR Awards for Excellence In Engineering --- \$1,000 Cash and plaque
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- trophy
- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate1
- CT Technology Council Youth Innovation Award --- \$150 Cash Award for Technological Innovation
- I-SWEEEP (International Sustainable World Project Olympiad) --- I-SWEEEP Competition for student (2) and advisor - 2nd Place HS Future Sustainability

Greenwich Greenwich High School Andrew Bramante

3042 LS Mycoremediation of PCB Soil Contaminants with Pleurotus Ostreatus

Award 3 **Student(s)** Mallory Madfes **Grade** 11 **Town** Greenwich

- Pfizer Life Sciences Awards --- 3rd Place- Life Sciences Senior High- \$200 & trophy
- Audubon Connecticut & Arch Chemicals Environmental Awards --- 3rd Place HS- \$100, Trophy, Audubon gifts
- eesmarks/CT Energy Efficiency Fund Future Sustainability Awards --- 3rd Place High School - \$300 Cash and Trophy
- Goodrich ISR Awards for Excellence In Engineering --- \$1,000 Cash and plaque
- U.S. Metric Association --- Certificate & \$50 gift card to Amazon given by CSF
- Long Island Sound Foundation, Inc. --- \$500 Life Science/Environmental Science/Physical science
- GENIUS Olympiad --- GENIUS Olympiad Competition for HS student (s) and advisor - Environmental



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Final Judging Results

Future Sustainability

Award Legend

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

[SchTown] [School] [Teacher]

[Proj#] [FCat] [Project Title]

Greens Farms Greens Farms Academy Tracy Haswell

3026 LS Algae Biodiesel

Award m

Student(s) Emily Petno

Grade 12 Town New Canaan

- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- eesmarkets/CT Energy Efficiency Fund Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award

Greenwich Greenwich High School Andrew Bramante

3070 LS Non-Invasive Dissipation of 2,4-D Pesticide in Standing Water Using Iris Versicolor

Award m

Student(s) Anne Merrill

Grade 10 Town Old Greenwich

- Audubon Connecticut & Arch Chemicals Environmental Awards --- HS Finalist - Audubon gifts, CSF Medallion, Acrylic award
- eesmarkets/CT Energy Efficiency Fund Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- Stockholm Junior Water Prize --- Certificate, Letter, \$50 gift card to Amazon given by CSF, possible advance to further competition

Greenwich Greenwich High School Andrew Bramante

6032 PS Design of a Smart Brick with Improved Insulation and Intuitive Reflection of Sunlight

Award m

Student(s) Lindsey Noskin

Grade 11 Town Greenwich

- Dominion's Millstone Power Station Physical Sciences Awards --- 5th Place- Physical Sciences Senior High Individual - trophy
- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- 3rd Place High School - \$200 Cash and Trophy
- eesmarkets/CT Energy Efficiency Fund Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- The National Society of Professional Engineers --- Certificate, Lapel Pin, \$50 gift card to Amazon given by CSF
- Connecticut Architecture Foundation --- \$100 Gift Certificate to Barnes and Nobles
- Northeast Utilities: Environmental Management --- Senior - \$250 Scholarship, energy conservation and renewable energy sources
- Society of Women Engineers - Hartford Section --- Scientific Calculator
- University of Connecticut - Physics Department --- UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificate
- I-SWEEEP (International Sustainable World Project Olympiad) --- I-SWEEEP Competition Invitation to submit-
- Education Connection- Center for 21st Century Skills Awards --- \$100 For innovation in science or engineering

Greenwich Greenwich High School Andrew Bramante

6075 PS Application of iDS-PBR to Prolongate Algal Photobiolysis in *C. Reinhardtii*

Award m

Student(s) Thomas Yang

Grade 11 Town Greenwich

- Dominion's Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- eesmarkets/CT Energy Efficiency Fund Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award



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Final Judging Results

Future Sustainability

Award Legend

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

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

Norwich Norwich Free Academy Mrs. Jones

6016 PS Utilizing a Robotic Turning Mechanism to Focus on the Sun in Order to Maximize the Efficiency of a Parabolic Trough Water Heating System

Award m **Student(s)** Remington Carle **Grade** 11 **Town** Norwich

- Dominion's Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- Xerox Computer Science Awards --- Senior High Finalist - Medallion, Acrylic Award
- eesmarks/CT Energy Efficiency Fund Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- Connecticut Association of Physics Teachers --- \$100 Senior project
- IEEE, Connecticut Section --- \$100 Honorable Mention
- I-SWEEEP (International Sustainable World Project Olympiad) --- I-SWEEEP Competition for student (2) and advisor

Putnam Putnam Science Academy Serdar Haytiyev

3515 LST Environmentally Friendly Photodegradation of Aliphatic Pollutants in Water by Using Visible Light Activated Chlorophyll

Award m **Student(s)** Almas Myrzatay **Grade** 10 **Town** Putnam
Selman Avci **Grade** 10 **Town** Middletown
Muhammed Kose **Grade** 10 **Town** Putnam

- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion & Acrylic Award
- eesmarks/CT Energy Efficiency Fund Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award

Putnam Putnam Science Academy Serdar Haytiyev

6503 PST Effective Removal of BTEX from Industrial Wastewater by Using Banana Peels as an Environmentally Friendly and Low-Cost Bio-Sorbent

Award m **Student(s)** Serik Tukupov **Grade** 11 **Town** Putnam
Vali Gasimov **Grade** 11 **Town** Putnam
Humza Ahmed **Grade** 11 **Town** Tolland

- Dominion's Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion & Acrylic Award
- eesmarks/CT Energy Efficiency Fund Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- American Society of Safety Engineers, CT Valley Chapter --- \$150 grade 9-12 project
- I-SWEEEP (International Sustainable World Project Olympiad) --- I-SWEEEP Competition Invitation to submit-



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Final Judging Results

Mathematics

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

Award Legend

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

Middle School

Bozrah Fields Memorial School Mrs. E Brown

2534 L8 Password Security

Award 1 **Student(s)** Connor Provost **Grade** 8 **Town** Bozrah

- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards - with People's United Bank --- 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
- IEEE, Connecticut Section --- \$100 Honorable Mention

Greens Farms Greens Farms Academy Sara Campolettano

5554 P8 Ski Physics

Award 2 **Student(s)** Grant Moberg **Grade** 8 **Town** Westport

- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards - with People's United Bank --- 2nd Place Middle School- \$100 from ATOMIC, and Trophy, \$200 from People's United Bank

Ridgefield East Ridge Middle School Ms. Sullivan

4002 PT Determining Amount Of Sugar, Salt, and Alcohol in a Water Solution with a Laser Pointer

Award 3 **Student(s)** Martin Herlihy **Grade** 8 **Town** Ridgefield
Brendan Donnelly **Grade** 8 **Town** Ridgefield

- Dominion's Millstone Power Station Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion & Acrylic Award
- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards - with People's United Bank --- 3rd Place Middle School - Trophy, \$100 from People's United Bank
- ISA - International Society for Automation --- 3rd - \$50 award

Hebron Oei Home School Mrs. Ellen Oei

5525 P8 Development of a Prototype Pendulum Wave Energy Conversion Device

Award m **Student(s)** Maura Oei **Grade** 8 **Town** Hebron

- Dominion's Millstone Power Station Physical Sciences Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards - with People's United Bank --- Middle School Finalist - Medallion & Acrylic Award
- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
- eesmarts/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- 2nd Place Middle School - \$300 Cash and Trophy
- Goodrich ISR Awards for Excellence In Engineering --- \$1,000 Cash and plaque
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- MIT Club of Hartford K-12 Initiative --- For excellence in energy related research, middle school, \$150 cash award
- Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash
- ProConn Power Inc. Award for Sustainable Electrical Energy Research --- \$250 for Excellence in Sustainable Electrical Energy Research



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Final Judging Results

Mathematics

Award Legend

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Medalists = m
Winners = w

[SchTown] [School] [Teacher]

[Proj#] [FCat] [Project Title]

Stratford St. Mark School Mr. Phil Flynn

5022 P7 A Bright Idea: Comparing the Efficiency of Incandescent, CFL, and LED Light Bulbs

Award m **Student(s)** Megan Robertson **Grade** 7 **Town** Stratford

- Dominion's Millstone Power Station Physical Sciences Awards --- 4th Place- Physical Sciences 7th Grade Ind. - trophy, invite to compete Broadcom MASTERS
- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards - with People's United Bank --- Middle School Finalist - Medallion & Arcylic Award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award
- Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School, Physical Sciences
- Wilfred A. Müller Award --- \$150 cash award for creative use of mathematics



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Final Judging Results

Mathematics

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

Award Legend

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

High School

Trumbull Christian Heritage School Dan Cote

6053 PS The general equation of the sum of power series

Award 1 **Student(s)** Xiaofei Yu **Grade** 11 **Town** Shelton

- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards - with People's United Bank --- 1st Place High School- \$150 from ATOMIC, Trophy, \$500 from People's United Bank
- Mu Alpha Theta --- Certificate, \$50 gift card to Amazon given by CSF

Watertown The Taft School Mr. Michael McAloon

3062 LS From Shape Recognition to Multi-Calculus Thinking: Study of Geometric Perception and Spatial Cognition in Early Alzheimer's Disease Patients

Award 2 **Student(s)** Xinhe Zheng **Grade** 11 **Town** Watertown

- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards - with People's United Bank --- 2nd Place High School- \$100 from ATOMIC, Trophy, \$300 from People's United Bank
- Otero Family Award --- The Otero Family Award; \$200 cash

Glastonbury Glastonbury High School Ms. Pintavalle

3081 LS Assessment of the Accuracy of the Euroscore and STS risk predicting algorithms for patients undergoing Aortic Valve Replacement

Award 3 **Student(s)** Omar Allam **Grade** 12 **Town** glastonbury

- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards - with People's United Bank --- 3rd Place High School - Trophy, \$200 from People's United Bank

Manchester East Catholic High School Ms. Holly Noble

6002 PS Polyvinylidene Fluoride (PVDF) Piezoelectric Generator: A Novel Approach to Harvesting Vibrations from Human Respiration to Power Biological Implant Devices

Award m **Student(s)** Bridget Oei **Grade** 10 **Town** Hebron

- Dominion's Millstone Power Station Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & trophy, trip to compete at Intel ISEF
- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards - with People's United Bank --- High School Finalist - Medallion & Acrylic Award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Trophy
- eesmart/CT Energy Efficiency Fund Future Sustainability Awards --- 2nd Place High School - \$500 Cash and Trophy and Trip to Compete I-SWEEEP, Houston
- Goodrich ISR Awards for Excellence In Engineering --- \$1,000 Cash and plaque
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- trophy
- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate1
- CT Technology Council Youth Innovation Award --- \$150 Cash Award for Technological Innovation
- I-SWEEEP (International Sustainable World Project Olympiad) --- I-SWEEEP Competition for student (2) and advisor - 2nd Place HS Future Sustainability



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Final Judging Results

Mathematics

Award Legend

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

[SchTown] [School] [Teacher]

[Proj#] [FCat] [Project Title]

Westport Staples High School Dr. Michele Morse

3033 LS Chaos in Bacterial Growth with Sinusoidal Temperature Cycles

Award m **Student(s)** Michael Menz

Grade 11 **Town** Westport

- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards - with People's United Bank --- High School Finalist - Medallion & Acrylic Award
- Mu Alpha Theta --- Certificate, \$50 gift card to Amazon given by CSF



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Final Judging Results

Quinnipiac University Awards

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

Award Legend

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

Middle School

Bozrah Fields Memorial School Mrs. E. Brown

5532 P8 Greener Cleaner? Testing the Level of Phosphates in Everyday Cleaners

Award **Student(s)** Megan Lavallee **Grade** 8 **Town** Bozrah

- Dominion's Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
- Quinnipiac University Scholarships --- \$20,000, 4 year scholarship to Quinnipiac University for Middle School Student
- Ricoh Corporation/Society for Science & the Public --- Certificate, Lapel Pin, \$50 gift card to Amazon given by CSF
- Talcott Mountain Science Center --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Phys Science



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Final Judging Results

Quinnipiac University Awards

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

Award Legend

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

High School

Redding Joel Barlow High School Katherine Nuzzo

6076 PS Surfactants: Emulsification Effects of Synthetic, Microbial and Plant-Derived Surfactants

Award Student(s) Morgan Jordan Grade 12 Town Easton

- eesmarks/CT Energy Efficiency Fund Future Sustainability Awards --- 1st Place High School - \$800 Cash, Trophy, and Trip to Compete I-SWEEEP, Houston
- Quinnipiac University Scholarships --- \$20,000, 4 year scholarship to Quinnipiac University for High School Student
- I-SWEEEP (International Sustainable World Project Olympiad) --- I-SWEEEP Competition for student (2) and advisor - 1st Place HS Future Sustainability



Connecticut Science Fair

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Final Judging Results

Award Legend

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

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

Middle School

Greenwich Eastern Middle School Brian Carstens

2512 L8 An Investigation Into Hydrogen-Producing Green Algae

Award 1 **Student(s)** Paul Hansel **Grade** 8 **Town** Old Greenwich

- Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 8th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- Barnes Aerospace Applied Technology Awards --- 3rd Place Middle School - \$100 and Trophy, Medallion
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy
- eesmarts/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- 1st Place Middle School - \$500 Cash and Trophy
- Goodrich ISR Awards for Excellence In Engineering --- \$1,000 Cash and plaque
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS

Hebron Oei Home School Mrs. Ellen Oei

5525 P8 Development of a Prototype Pendulum Wave Energy Conversion Device

Award 2 **Student(s)** Maura Oei **Grade** 8 **Town** Hebron

- Dominion's Millstone Power Station Physical Sciences Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards - with People's United Bank --- Middle School Finalist - Medallion & Arcylic Award
- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
- eesmarts/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- 2nd Place Middle School - \$300 Cash and Trophy
- Goodrich ISR Awards for Excellence In Engineering --- \$1,000 Cash and plaque
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- MIT Club of Hartford K-12 Initiative --- For excellence in energy related research, middle school, \$150 cash award
- Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash
- ProConn Power Inc. Award for Sustainable Electrical Energy Research --- \$250 for Excellence in Sustainable Electrical Energy Research



Connecticut Science Fair

Quinnipiac University

March 13 - 17, 2012

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Final Judging Results

Award Legend

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

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

Windsor Madina Academy Aisha Seyal

2527 L8 Manufacturing and Biodegrading Bioplastics: Observing the speed of biodegradation of potato, rice, tapioca and corn starch based plastics.

Award 3 **Student(s)** Muhammad Ali **Grade** 8 **Town** Windsor

- Pfizer Life Sciences Awards --- 4th Place- Life Sciences 8th grade- trophy and Invite to Compete Broadcom MASTERS
- Audubon Connecticut & Arch Chemicals Environmental Awards --- 3rd Place MS- \$100, Trophy, Audubon gifts
- eesmarks/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- 3rd Place Middle School - \$200 Cash and Trophy
- Alexion Biotechnology Awards --- 3rd Place- Biotechnology 8th grade- \$100 & trophy and Invitation Compete in Broadcom MASTERS
- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSF
- Talcott Mountain Science Center --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Life Science
- Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner

Bridgeport Thurgood Marshall Middle School Carmen Andrews

2501 L8 Rock the Brownfields Green: Food for Fungi

Award m **Student(s)** Ann Hewitt **Grade** 8 **Town** Fairfield

- Audubon Connecticut & Arch Chemicals Environmental Awards --- MS Finalist - Audubon gifts, CSF Medallion, Acrylic award
- eesmarks/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy

Danbury St. Joseph School Mrs. Page

5032 P7 Ocean Wave and Tide Energy Project

Award m **Student(s)** James Parris **Grade** 7 **Town** Brookfield

- Dominion's Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion & Acrylic Award
- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- eesmarks/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- American Meteorological Society --- Certificate & \$50 Amazon gift card given by CSF
- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSF

Fairfield Our Lady of the Assumption School Mrs. Kathy Almeida

5524 P8 Do Brightly Colored Roofs Reduce Thermal Radiation?

Award m **Student(s)** Patrick Agonito **Grade** 8 **Town** Fairfield

- eesmarks/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- CSF Board of Directors Award --- Certificate and \$50 Amazon gift catd given by CSF



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Final Judging Results

e-smarts Sustainable Resources & Practices

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

Award Legend

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

Fairfield Our Lady of the Assumption School Kathy Almeida

2540 L8 The Effects of De-Icing Salts and Chemical Compounds on Adiantum pedatum

Award m **Student(s)** Amanda Gerstenfeld **Grade** 8 **Town** Fairfield

- Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion & Acrylic Award
- e-smarts/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award Souvenir
- Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash

Windsor Madina Academy Aisha Seyal

5033 P7 Charge your device in a power blackout: Effective methods to generate electricity from heat and solar energy using thermoelectric generators

Award m **Student(s)** Osama ElSherbini **Grade** 7 **Town** Windsor

- Dominion's Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion & Acrylic Award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award
- e-smarts/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy

Windsor Madina Academy Aisha Seyal

5020 P7 Back to the Future with Mud Brick and Clay Egyptian Houses and Wooden American Houses: Comparing cooling and heating methods, structure stability, and cost differences

Award m **Student(s)** Malak Enayetallah **Grade** 7 **Town** Tolland

- e-smarts/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy

Windsor Madina Academy Aisha Seyal

2515 L8 Polypropylene Oil Magnets: A comparison of this novel approach using ferrofluids to established methods of oil spill removal including OEMs, woodchips, hay, and compost.

Award m **Student(s)** Ayesha Khan **Grade** 8 **Town** Windsor

- Audubon Connecticut & Arch Chemicals Environmental Awards --- MS Finalist - Audubon gifts, CSF Medallion, Acrylic award
- e-smarts/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- U.S. Air Force --- Certificate, sport bag, speaker, organizer



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CSTA Marty Tafel Award

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

Middle School

Orange Southern Connecticut Hebrew Academy Mrs. Karen Howell

2543 L8 Phytoremediation: Removal of metal pollutants from contaminated soil and effect of chelators

Award Student(s) Alex Russell Grade 8 Town New Haven

- 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 Science 8th Grade - \$500 and invite to CSTA Award Banquet
- Alexion Biotechnology Awards --- 2nd Place- Biotechnology 8th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS
- American Meteorological Society --- Certificate & \$50 Amazon gift card given by CSF
- Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related

Glastonbury Smith Middle School Mr. Falcigno

5528 P8 On the Application of Electrochemical Double Layer Capacitors

Award Student(s) Paul Han Grade 8 Town Glastonbury

- Dominion's Millstone Power Station Physical Sciences Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & trophy, invite to compete Broadcom MASTERS
- Barnes Aerospace Applied Technology Awards --- 2nd Place Middle School - \$200 and Trophy, Medallion
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award
- Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Science 8th Grade - \$500 and invite to CSTA Award Banquet
- IEEE, Connecticut Section --- \$250 Honors Award -Junior
- Barker Mohandas Award for Transportation Research --- \$250 Cash for Excellence in Transportation Related Research
- John B. Trevor Award in Electrical Engineering --- \$500 cash award for an innovative electronic or electrical project
- Leask/Francoeur Family Awards --- 1st Place Middle School- For innovation electrical engineering or computer science - \$100 cash



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Winners = w

Urban School Challenge

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

Middle School

Bridgeport Thurgood Marshall Middle School Carmen Andrews

2007 L7 Peel Power

Award 1 **Student(s)** Jonathan Siveyer **Grade 7** **Town** Monroe

Hartford Classical Magnet School Ms. Paula Koenig

5044 P7 Aerodynamics

Award 2 **Student(s)** Holly Weldon **Grade 7** **Town** South Windam

New Haven Worthington Hooker Middle School Douglas Jones

2033 L7 The Clean Water Project

Award 3 **Student(s)** Yogasai Gazula **Grade 7** **Town** New Haven

Bridgeport Cesar A. Batalla School Mr. Bell

5017 P7 Energy Saver

Award m **Student(s)** Johnny Lopez **Grade 7** **Town** Bridgeport

Bridgeport John Winthrop School Mr. Walsh

2530 L8 GMO or no GMO

Award m **Student(s)** Timothy Graham **Grade 8** **Town** Bridgeport

Bridgeport Park City Magnet School Mrs. Simone

5522 P8 Color Flash At Work

Award m **Student(s)** Anna Chanyarakskul **Grade 8** **Town** Bridgeport

Bridgeport Park City Prep Charter School Mrs. Vicky Boudreau

1001 LT Is Your Daphnia Hopped Up On Caffeine?

Award m **Student(s)** Genesis Moran **Grade 7** **Town** Bridgeport

Jania Oliver-White **Grade 7** **Town** Bridgeport

New Haven Betsy Ross Arts Magnet School Mrs. MacDonald

2524 L8 The Effects of Symphytum on Bone Cell Growth

Award m **Student(s)** Evan Robison **Grade 8** **Town** Wallingford

New Haven Worthington Hooker Middle School Doug Jones

4024 PT Increasing Solar Energy

Award m **Student(s)** Joshua Levine-Ritterman **Grade 8** **Town** New Haven

Foster Hall **Grade 8** **Town** New Haven

High School

Bridgeport Bridgeport Aquaculture School Mr. Shadle

6037 PS Geometrical Symmetry Analysis of the Skeletonema costatum Amorphous Cell Structure

Award 1 **Student(s)** Genesis Garcia **Grade 12** **Town** Bridgeport



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Final Judging Results

Urban School Challenge

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

Award Legend

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

Bridgeport Bassick High School A. Walsh

6506 PST Visible Light Scattering Analysis To Detect Lead

Award 2

Student(s) Karen Seymour

Grade 11 **Town** Bridgeport

Lydia Guadalupe

Grade 11 **Town** Bridgeport

Bridgeport Bridgeport Aquaculture School Mr. Shadle

6031 PS The Investigation of the Role of Methylating Bacteria in the Reintroduction Of Mercury into Long Island Sound

Award 3

Student(s) Allison Haley

Grade 12 **Town** Shelton

Bridgeport Central High School Ms. Sullivan

6525 PST Javonic Bonding

Award m

Student(s) Monsurat Olaosebikan

Grade 11 **Town** Bridgeport

Carolyn Roach

Grade 11 **Town** Bridgeport

Jaymi Gooden

Grade 11 **Town** Bridgeport

Hartford Academy of Aerospace and Engineering Dr. Aramli

3004 LS Bio-engineering: Microbial Properties of Shark Skin and Other Natural Surfaces

Award m

Student(s) Russell Weeks

Grade 11 **Town** Portland

Hartford Greater Hartford Academy of Math & Science Dr. Aramli

3508 LST The Effect of Drugs and Herbal Remedies on Propionibacterium Acnes

Award m

Student(s) Kush Desai

Grade 12 **Town** Rocky Hill

Rushi Shah

Grade 11 **Town** Rocky Hill

Jasmine Wilson

Grade 11 **Town** Rocky Hill

Hartford Greater Hartford Academy of Math & Science Dr. Aramli

3098 LS The Effects Of Commercial Non-Agricultural Target Specific And Non-Specific Herbicides at Specific Temperatures On The Embryonic Development Of Zebrafish

Award m

Student(s) Rishmitha Satyaneni

Grade 12 **Town** Farmington

New Haven Cooperative Arts & Humanities High School Shelia Martin-Corbin

6071 PS Battle Of The Solvents-thin Layer Chromatography

Award m

Student(s) Mairead Brennan

Grade 9 **Town** New Haven

New Haven Wilbur Cross High School Mary DeRome

3512 LST Brachypodium distachyon: Building a Better Biofuel

Award m

Student(s) Tarpley Hitt

Grade 11 **Town** New Haven

Alessandra Hogan

Grade 11 **Town** New Haven



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Final Judging Results

United Technologies Awards

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

Award Legend

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

Middle School

Greenwich Eastern Middle School Brian Carstens

2512 L8 An Investigation Into Hydrogen-Producing Green Algae

Award **Student(s)** Paul Hansel **Grade** 8 **Town** Old Greenwich

Glastonbury Smith Middle School Mr. Falcigno

4027 PT Solar Panel in Greenhouse

Award **Student(s)** Ninad Vora **Grade** 7 **Town** Glastonbury
Soham Kale **Grade** 7 **Town** Glastonbury

East Granby East Granby Middle School Mr Paskiewicz

5520 P8 Comparison of Baseball Bat Composition: Safety

Award **Student(s)** Gavin McConnell **Grade** 8 **Town** East Granby

Hebron Oei Home School Mrs. Ellen Oei

5525 P8 Development of a Prototype Pendulum Wave Energy Conversion Device

Award **Student(s)** Maura Oei **Grade** 8 **Town** Hebron

High School

Manchester East Catholic High School Ms. Holly Noble

6002 PS Polyvinylidene Fluoride (PVDF) Piezoelectric Generator: A Novel Approach to Harvesting Vibrations from Human Respiration to Power Biological Implant Devices

Award **Student(s)** Bridget Oei **Grade** 10 **Town** Hebron

Norwich Norwich Free Academy Mrs. Jones

6016 PS Utilizing a Robotic Turning Mechanism to Focus on the Sun in Order to Maximize the Efficiency of a Parabolic Trough Water Heating System

Award **Student(s)** Remington Carle **Grade** 11 **Town** Norwich

Greenwich Greenwich High School Andrew Bramante

6049 PS An Organic Thin Film Transistor and Elastic Organic Solar Cell Based Electronic Skin for Biochemical and Tactile Sensing

Award **Student(s)** Ryota Ishizuka **Grade** 12 **Town** Cos Cob

Greenwich Brunswick School Mrs. Dana Montanez

6501 PST A Comparative Analysis of Bio-Diesel Emissions Versus Emissions of Petroleum Diesel

Award **Student(s)** Matthew Mayfield **Grade** 11 **Town** Greenwich
Vikram Bodas **Grade** 10 **Town** Greenwich