



Connecticut Science Fair

Quinnipiac University

March 9 - 13, 2010

Regular Fair Winners

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

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

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

Life Sciences - High School Individual

Glastonbury Glastonbury High School Mrs. Veronica Hanlon

3079 Effect of trans-cinnamaldehyde on reducing attachment and invasion of Uropathogenic Escherichia coli in urinary epithelial cells

Student(s) Amoolya Narayanan **Grade 11** **Town** Glastonbury

- Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High- \$500 & trophy, Trip to compete at Intel ISEF
- H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Life Sciences Senior - \$1,000 cash, Solid Silver Medal of Excellence and Invitation to attend CASE's Annual Mtg

Westport Staples High School Dr. Nicholas D. Morgan

3017 Bioinformatic and Synthetic Approaches to Studying Advanced Glycation End-products in Eukaryotes

Student(s) Jason Gandelman **Grade 12** **Town** Westport

- Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High- \$300 & trophy, Trip to compete at Intel ISEF
- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards Program- with Xerox --- 1st Place High School- \$300 Savings Bond, and Trophy, \$500 from Xerox

New Canaan New Canaan High School Dr. Hannah Shear

3026 Bacterial Membrane Depolarization by Trypanosome Lytic Factor: A Component of Innate Immunity

Student(s) Caroline M. Casavant **Grade 12** **Town** New Canaan

- Pfizer Life Sciences Awards --- 3rd Place- Life Sciences Senior High- \$200 & trophy

Greenwich Greenwich High School Mr. Bramante

3012 Characterization of an inhibitor of human soluble adenylyl cyclase; potential implications for a novel treatment of the human skin disease psoriasis.

Student(s) Hannes Buck **Grade 11** **Town** Old Greenwich

- Pfizer Life Sciences Awards --- 4th Place- Life Sciences Senior High- trophy

New Milford New Milford High School Ms. McClelland

3047 The Cross Pollination of an Edible Pumpkin with a Powdery-Mildew Resistant Ornamental Pumpkin to Create an Edible Powdery-Mildew Resistant Pumpkin

Student(s) Jacob D. Ness **Grade 11** **Town** New Milford

- Pfizer Life Sciences Awards --- 5th Place- Life Sciences Senior High- trophy
- Audubon Connecticut & Arch Chemicals Environmental Awards --- HS Finalist - Audubon gifts, CSF Medallion; Non-trophied- acrylic award

Hamden Hamden High School Sonia Beloin

3006 Effects of Light vs Color on Reptilian Learning: case study on Chelydra Serpentina

Student(s) Yiyuan (David) Hu **Grade 10** **Town** Hamden

- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award Souvenir

Lebanon Lyman Memorial High School Ms. Kelly Ennis

3008 Using Biofilms as Biobarriers to Prevent Pollutants from Moving in Water through Soil

Student(s) Alexander B. Drucker **Grade 10** **Town** Lebanon

- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award Souvenir
- Audubon Connecticut & Arch Chemicals Environmental Awards --- HS Finalist - Audubon gifts, CSF Medallion; Non-trophied- acrylic award

Connecticut Science Fair

2010 Regular Fair Winners

[SchTown]	[School]	[Teacher]	[Proj#]	[Project Title]	Student(s)	Grade	Town
Greenwich	Greenwich High School	Mr. Andrew Bramante	3028	Exploring the Antioxidative Effects of Ergothioneine as a Dermal Protectant	Marina Kaneko	Grade 11	Town Cos Cob
● Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award Souvenir							
Greenwich	Greenwich High School	Mr. Andrew Bramante	3033	Airborne Containment Removal Using Household Plants	James O'Sullivan	Grade 10	Town Old Greenwich
● Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award Souvenir							
Woodbridge	Amity Regional High School	Ms. Deborah Day	3043	The role of microRNA-155 in conferring radioresistance in lung adenocarcinoma tumor cells	David J. Steinmetz	Grade 12	Town Woodbridge
● Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award Souvenir							
Greenwich	Greenwich High School	Andrew Bramante	3044	The Role of the Human Protein Arginine Methyltransferase PRMT7 in Transcriptional Regulation of Cancer Stem Cells	Felix Zhou	Grade 12	Town Old Greenwich
● Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award Souvenir							
Fairfield	Fairfield Warde High School	Mrs. Patrice Faggella	3060	Studying the effect of tea polyphenols on MCF-7 breast cancer cells	Neil V. Gade	Grade 10	Town Fairfield
● Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award Souvenir							
Woodbridge	Amity Regional High School	Ms. Deborah Day	3062	An Invertebrate Model for the Study of Microvasculature	Anfal Y. Nyhan	Grade 12	Town Orange
● Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award Souvenir							
● Quinnipiac University Scholarships --- \$20,000, 4 year scholarship to Quinnipiac University for High School Student							
Glastonbury	Glastonbury High School	Mrs. Hanlon	3063	Inhibition of Post Surgical Wound Infection Contributing Pathogen Growth With Turmeric	Kaitavjeet Chowdhary	Grade 9	Town Glastonbury
● Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award Souvenir							
Woodbridge	Amity Regional High School	Deborah Day	3066	Specifying Cytokine Derived Signals during the early stages of a B lymphocyte Immune Response	Yuqi Zhang	Grade 12	Town Woodbridge
● Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award Souvenir							
Weston	Weston High School	Ms. Lauren Hauser	3071	The Anti-bacterial Effect of Diferuloyl Methane on Enteropathogenic Escherichia coli	Sagar N. Kaushik	Grade 11	Town Weston
● Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award Souvenir							
Hamden	Sacred Heart Academy	Michelle Pirruccello	3076	Investigating a Conserved Sequence in Endophilin	Alexandra Buda	Grade 12	Town Woodbridge
● Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award Souvenir							

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

Norwich Norwich Free Academy Mr. Robert Johnson

3088 Phytoremediation by Eichhornia crassipes to remove Contaminants from Freshwater

Student(s) **Samantha M. Schoepfer** **Grade 12** **Town** Bozrah

- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award Souvenir
- Audubon Connecticut & Arch Chemicals Environmental Awards --- HS Finalist - Audubon gifts, CSF Medallion; Non-trophied- acrylic award
- Future Sustainability Awards --- 2nd Place High School - \$500 Cash and Trophy

Wallingford Choate Rosemary Hall Deron Chang

3089 The Rate of Internalization of Anti-DEC205 Coated Nanoparticles by Dendritic Cells

Student(s) **Aakash Bhattacharya** **Grade 12** **Town** Fairfield

- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award Souvenir

Life Sciences - High School Teams

Bridgeport Bridgeport Aquaculture School Mr. Shadle

3508 Passive Brownfield Phytoremediation

Student(s) **Gregory J. Johnson** **Grade 12** **Town** Trumbull

Ivan V. Meyerovich **Grade 12** **Town** Trumbull

- Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High Team- \$500 (split) & trophy
- Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award

Norwich Norwich Free Academy Ms. Botelle

3503 A Study of Limulus Epiphytes and Spawning Behavior

Student(s) **Jessica Banning** **Grade 12** **Town** Bozrah

Josh Fish **Grade 12** **Town** Bozrah

- Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High Team- \$300 (split) & trophy

Shelton Shelton High School Diane Bustamante MHS, MT

3502 Brilliant Bacteria

Student(s) **Shannon M. Sizensky** **Grade 10** **Town** Shelton

Bianka A. Bell **Grade 10** **Town** Shelton

- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion & Acrylic Award Souvenir

Bridgeport Warren Harding High School Lilliam Solis

3505 The effect of the radiation on the growth of beans

Student(s) **Maria Ruiz** **Grade 11** **Town** Bridgeport

keemberly E. Reyes **Grade 11** **Town** Bridgeport

- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion & Acrylic Award Souvenir

Bridgeport Bridgeport Aquaculture School Mr. Shadle

3513 Evaluation of the Macro-Algae Chondrus crispus as a Potential Bio-Fuel Candidate.

Student(s) **Jonathan Dupnik** **Grade 12** **Town** Trumbull

Gregory DeVos **Grade 12** **Town** Trumbull

- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion & Acrylic Award Souvenir
- CT Clean Energy Fund Alternative/Renewable Energy Awards --- High School Finalist - Medallion, Year Pass to CT Science Center

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

Shelton Shelton High School Ms. McNamara

3515	Rot or Not
Student(s)	Patricia Kraszewska Grade 12 Town Shelton
	Elliott Purcell Grade 12 Town Shelton

- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion & Acrylic Award Souvenir

Life Sciences - Middle School 7th Grade

Bloomfield Metropolitan Learning Center Mr. Donnelly

2009	Recycled Water: A Sustainable Water Supply Alternative
Student(s)	Usra Z. Qureshi Grade 7 Town Windsor

- Pfizer Life Sciences Awards --- 1st Place- Life Sciences 7th grade- \$200 & trophy
- Audubon Connecticut & Arch Chemicals Environmental Awards --- MS Finalist - Audubon gifts, CSF Medallion; Non-trophied- acrylic award
- eesmarks/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy

Newtown St. Rose of Lima School Mrs. Marde Dimon

2015	A Better Bio Building
Student(s)	Haley M. Ryan Grade 7 Town Newtown

- Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 7th grade- \$100 & trophy
- Audubon Connecticut & Arch Chemicals Environmental Awards --- 1st Place MS - \$300, Trophy, Audubon gifts
- CT Clean Energy Fund Alternative/Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- eesmarks/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- 2nd Place Middle School - \$300 Cash and Trophy

Danbury St. Joseph School Mrs. Jennifer Page

2018	The Effect of Age on the Ability to Hear Ultrasonic Tones
Student(s)	Janine A. Kerr Grade 7 Town Danbury

- Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 7th grade- \$100 & trophy

Windsor Madina Academy Mehwish Amin

2020	Optimizing Productivity of Oleophilic Microbes: Getting the Most out of Bioremediation
Student(s)	Aasiya M. Ahmed Grade 7 Town Windsor

- Pfizer Life Sciences Awards --- 4th Place- Life Sciences 7th grade- trophy
- eesmarks/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy

Pawcatuck St. Michael School Mr. Bernie Petkis

2007	The Effect of Pesticides on the DNA of Apples Which has more extractable DNA- Conventionally grown apples or those grown organically?
Student(s)	Catherine E. Montalto Grade 7 Town Westerly

- Pfizer Life Sciences Awards --- 5rd Place- Life Sciences 7th grade- trophy

Westport Coleytown Middle School Jodi R. Rieman

2029	Over Expression of Colorectal Cells
Student(s)	Malin S. Hovstadius Grade 7 Town Westport

- Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion & Acrylic Award Souvenir

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

Life Sciences - Middle School 8th Grade

Newtown Newtown Middle School Ms. Andracchi

2505 The Effect of Amygdalin on Cancerous and Normal Epithelial Breast Cells

Student(s) **Bethany N. Dubois** Grade 8 Town Sandy Hook

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

Trumbull St. Catherine of Siena School Schickler/LaBanca

2534 Examination of Bacterial Growth and Antibiotic Resistance on Organic vs. Conventional (Non-Organic) Chicken

Student(s) **Julia Mocchiola** Grade 8 Town Shelton

- Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 8th grade- \$200 & trophy

Orange Southern CT Hebrew Academy Mrs. Karen Howell

2537 Analysis of roof slope and roofing materials on mold growth

Student(s) **Evan Risch** Grade 8 Town Fairfield

- Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 8th grade- \$100 & trophy

Orange Southern CT Hebrew Academy Mrs. Karen Howell

2526 The effect of factors on simulated cell and skin absorption of vitamin D

Student(s) **Rivka E. Salhanick** Grade 8 Town New Haven

- Pfizer Life Sciences Awards --- 4th Place- Life Sciences 8th grade- trophy

New Haven Worthington Hooker School Mr. Jones

2516 Which Hand Sanitizer kills the most E.coli?

Student(s) **Rachel M. Matheny** Grade 8 Town New Haven

- Pfizer Life Sciences Awards --- 5th Place- Life Sciences 8th grade- trophy

Pawcatuck St. Michael School Mr. Bernard Petkis

2503 M & M: Mice and Memory

Student(s) **Dylan A. Armstrong** Grade 8 Town West Kingston

- Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion & Acrylic Award Souvenir

New Haven St. Aedan-St Brendan School Mr. Michael Celentano

2506 Does Practice Make Perfect? An Operant Conditioning Study

Student(s) **Eli J. Moore** Grade 8 Town Hamden

- Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion & Acrylic Award Souvenir

Plantville John F. Kennedy Middle School Mrs. Kenefick

2510 Plant Attack

Student(s) **Nicholas A. Stafko** Grade 8 Town Southington

- Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion & Acrylic Award Souvenir

Ridgefield East Ridge Middle School Deborah Sullivan

2538 The Secret Life of Worms

Student(s) **Jack L. Orzechowski** Grade 8 Town Ridgefield

- Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion & Acrylic Award Souvenir

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

Life Sciences - Middle School Teams

New Haven Worthington Hooker School Mr. Jones

1004 Got Garlic? What to do when you've got E.coli.

Student(s) **Elizabeth A. Bays** **Grade 7** **Town** New Haven
Aneurin Canham-Clyne **Grade 7** **Town** New Haven

- Pfizer Life Sciences Awards --- 1st Place- Life Sciences Middle School Team- \$100 each & trophy

Danbury Rogers Park Middle School Mr. Werner

1006 Get The Lead Out!- Can plants extract or absorb lead from soil?

Student(s) **Fiona C. Lunt** **Grade 8** **Town** Danbury
Krista N. Nicholson **Grade 8** **Town** Danbury

- Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Middle School Team- \$100 each & trophy
- Audubon Connecticut & Arch Chemicals Environmental Awards --- MS Finalist - Audubon gifts, CSF Medallion; Non-trophied- acrylic award

Orange Southern CT Hebrew Academy Mrs. Karen Howell

1018 Effect of fiber's viscosity on absorption and adsorption of nutrients

Student(s) **Aviva N. Levitansky** **Grade 8** **Town** New Haven
Chaya M. Kantor **Grade 8** **Town** Westport

- Pfizer Life Sciences Awards --- 3rd Place- Life Sciences Middle School Team- trophy

Monroe Jockey Hollow School Mary Ballas

1015 Gas What Happens?

Student(s) **Michael S. Massar** **Grade 8** **Town** Monroe
Chris J. Massar **Grade 8** **Town** Monroe

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

Physical Sciences - High School Individual

Greenwich Greenwich High School Andrew Bramante

6051 Diatom-CdS Nanostructures as a Method to Enhance the Efficiency of a Dye-Sensitized Solar Cell

Student(s) **William C. Newberry** **Grade 12** **Town** Riverside

- Dominion's Millstone Power Station Physical Science Awards --- 1st Place - Physical Science Senior High Individual - \$500 & trophy, and trip to compete at Intel ISEF
- CT Clean Energy Fund Alternative/Renewable Energy Awards --- 3rd Place High School - \$200 Cash and Trophy
- Goodrich Awards for Excellence In Engineering --- 3rd Place- Engineering Senior High - \$200 & trophy
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack 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 and Invitation to attend CASE's Annual Mtg

Norwich Norwich Free Academy Michael Scanlon Jr.

6066 The use of sol-gels for the fabrication of a Memristive Device

Student(s) **Heather N. Leask** **Grade 12** **Town** Bozrah

- Dominion's Millstone Power Station Physical Science Awards --- 2nd Place- Physical Science Senior High Individual - \$300 & trophy, and trip to compete at Intel ISEF
- Goodrich Awards for Excellence In Engineering --- 1st Place - Engineering Senior High - \$500 & trophy

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

Hebron RHAM High School Mrs. Laughman

6056 A More Efficient and Ecologically Sound Method for Extracting Oil From Oil Sands Using Plant Surfactants and Plant Surfactants With Terpenes

Student(s) William M. Collins **Grade 9** **Town** Amston

- Dominion's Millstone Power Station Physical Science Awards --- 3rd Place- Physical Science Senior High Individual - \$200 & trophy
- Audubon Connecticut & Arch Chemicals Environmental Awards --- HS Finalist - Audubon gifts, CSF Medallion; Non-trophied- acrylic award

Manchester East Catholic High School Holly Noble

6001 Prototype Dual Kite Power System to Harvest High Altitude Wind Energy

Student(s) Theresa A. Oei **Grade 11** **Town** Hebron

- Dominion's Millstone Power Station Physical Science Awards --- 4th Place- Physical Science Senior High Individual - trophy
- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards Program- with Xerox --- 2nd Place High School- \$200 Savings Bond, and Trophy, \$300 from Xerox
- Barnes Aerospace Applied Technology Awards --- 2nd Place High School - \$300 and Trophy, Medallion
- CT Clean Energy Fund Alternative/Renewable Energy Awards --- 2nd Place High School - \$300 Cash and Trophy
- Future Sustainability Awards --- 1st Place High School - \$800 Cash, Trophy, and Trip to Compete I-SWEEEP, Houston
- Goodrich Awards for Excellence In Engineering --- 2nd Place- Engineering Senior High - \$300 & trophy
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack and Annual Report

Greenwich Greenwich High School Andrew Bramante

6033 Synthesis of 5-Hydroxymethylfurfural and 2,5-Dimethylfuran Biofuel Precursors from Switchgrass

Student(s) Clayton T. Hardman **Grade 11** **Town** Old Greenwich

- Dominion's Millstone Power Station Physical Science Awards --- 5th Place- Physical Science Senior High Individual - trophy
- Audubon Connecticut & Arch Chemicals Environmental Awards --- HS Finalist - Audubon gifts, CSF Medallion; Non-trophied- acrylic award
- Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award

Greenwich Greenwich High School Andrew Bramante

6004 Acoustic Transesterification in Biodiesel Production

Student(s) Brian A. Miller **Grade 12** **Town** Old Greenwich

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science Senior High - CSF Medallion & Acrylic Award
- CT Clean Energy Fund Alternative/Renewable Energy Awards --- High School Finalist - Medallion, Year Pass to CT Science Center

Greenwich Greenwich High School Andrew Bramante

6007 Water Water Everywhere: Evaluating the Efficacy and Energy Requirements of Salt and Sugar Based Solutes in Forward Osmosis Draw Solutions

Student(s) William B. Hallisey **Grade 10** **Town** Greenwich

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science Senior High - CSF Medallion & Acrylic Award

Brewster Brewster High School Mr. Schmidt

6013 Biomimetic insulation: inspired by the eastern tent caterpillar (*malacosoma americanum*) and the white-tailed deer (*odocoileus virginianus*)

Student(s) Madeleine L. Skaller **Grade 11** **Town** Brewster

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science Senior High - CSF Medallion & Acrylic Award
- Goodrich Awards for Excellence In Engineering --- Finalist - Engineering Middle School - CSF Medallion & Acrylic Award

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

Greenwich Greenwich High School Andrew Bramante

6014 Are Carcinogens Hidden Within Our Bedroom Closet? The Dangers Posed by Dry Cleaning Fluids

Student(s) **Jordana R. Cepelewicz** Grade 11 Town Cos Cob

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science Senior High - CSF Medallion & Acrylic Award

Oxford Oxford High School Dr. LaBanca

6029 Design and testing of a two-step arsenic - remediating water filtration system

Student(s) **Joseph Bonavita** Grade 11 Town Oxford

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science Senior High - CSF Medallion & Acrylic Award
- Barnes Aerospace Applied Technology Awards --- 1st Place High School - \$500 and Trophy, Medallion
- Audubon Connecticut & Arch Chemicals Environmental Awards --- 2nd Place HS- \$200, Trophy, Audubon gifts
- Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award

Oxford Oxford High School Dr. Frank LaBanca

6035 Manufacturing Carbon Nanotubes Using Chemical Vapor Deposition

Student(s) **Charles D. Widmer** Grade 11 Town Oxford

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science Senior High - CSF Medallion & Acrylic Award
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack and Annual Report

Watertown The Taft School William Kron

6038 Study of the Effect of Gravity on Capillary Waves in a Surfactant-Water Solution

Student(s) **Matthew A. Petroff** Grade 11 Town Cheshire

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science Senior High - CSF Medallion & Acrylic Award
- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards Program- with Xerox --- 3rd Place High School - Trophy, \$200 from Xerox
- Computer Science Awards --- 1st Place High School - \$400, Trophy, Medallion
- Connecticut Academy for Education Andrew DeRocco Award for Excellence in Physics --- \$400 Cash & certificate

Greens Farms Greens Farms Academy Dr. Mathieu Freeman

6052 Assessing Renewable Energies: The Effectiveness of Wind and Solar Energy in Southern Fairfield County

Student(s) **Christopher L. Friend** Grade 12 Town Darien

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science Senior High - CSF Medallion & Acrylic Award

Greens Farms Greens Farms Academy Dr. Mathieu Freeman

6064 Development of a Highly Modular Data Analysis Program for Images Derived From Scanning Tunneling and Atomic Force Microscopes

Student(s) **Arash Kani** Grade 12 Town Easton

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science Senior High - CSF Medallion & Acrylic Award
- Computer Science Awards --- Senior High Finalist - Medallion, Acrylic Award
- Goodrich Awards for Excellence In Engineering --- Finalist - Engineering Middle School - CSF Medallion & Acrylic Award

Westport Staples High School Dr. Nicholas D. Morgan

6072 The implementation of discrete Solid-State circuitry in the acoustic emulation of Vacuum-Tube amplifiers in audio applications

Student(s) **Robinson A. Batteau** Grade 12 Town Westport

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science Senior High - CSF Medallion & Acrylic Award
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack and Annual Report

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

Fairfield Fairfield College Preparatory School Dr. Lewis

6073 Wireless Electrical Power Transfer Using Resonant Inductive Coupling

Student(s) Kyle T. Ryan **Grade 9** **Town** Trumbull

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science Senior High - CSF Medallion & Acrylic Award

Greens Farms Greens Farms Academy Dr. Mathieu Freeman

6077 Optimal Preparation of Yttrium Barium Copper Oxide Superconductors Using Various Oxygen Sources

Student(s) David Schmidt-Fellner **Grade 12** **Town** Darien

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science Senior High - CSF Medallion & Acrylic Award
- Goodrich Awards for Excellence In Engineering --- Finalist - Engineering Middle School - CSF Medallion & Acrylic Award

Physical Sciences - High School Teams

Putnam Putnam Science Academy Serdar Haytiyev

6509 Environmentally Friendly Degradation of toxic Phenol in water through the use of Reactive Oxygen Species (ROS) obtained by using visible-light-activated Chlorophyll-a

Student(s) Mehmet Sencan **Grade 12** **Town** Putnam

Abdurrahman Cam **Grade 11** **Town** Putnam

- Dominion's Millstone Power Station Physical Science Awards --- 1st Place- Physical Science Senior High Team- \$500 Cash (split) & trophy
- Audubon Connecticut & Arch Chemicals Environmental Awards --- HS Finalist - Audubon gifts, CSF Medallion; Non-trophied- acrylic award
- Future Sustainability Awards --- 3rd Place High School - \$300 Cash and Trophy
- Goodrich Awards for Excellence In Engineering --- Finalist - Engineering Middle School - CSF Medallion & Acrylic Award

Putnam Putnam Science Academy Serdar Haytiyev

6515 Efficient and practical approach to removing toxic phenol from industrial waste water with the aid of used tea

Student(s) Yusuf T. Yilmaz **Grade 11** **Town** Putnam

Ahmet F. Sencan **Grade 11** **Town** Putnam

- Dominion's Millstone Power Station Physical Science Awards --- 2nd Place- Physical Science Senior High Team- \$300 Cash (split) & trophy
- Audubon Connecticut & Arch Chemicals Environmental Awards --- 1st Place HS- \$500, Trophy, Audubon gifts
- Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award

Putnam Putnam Science Academy Serdar Haytiyev

6512 Using powdered magnetite mineral as an absorbing agent to remove petroleum spills from seawater

Student(s) Zekeriya K. Abacioglu **Grade 10** **Town** Putnam

Nahit Akarsu **Grade 10** **Town** Putnam

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science Senior Team - CSF Medallion & Acrylic Award
- Barnes Aerospace Applied Technology Awards --- 3rd Place High School - \$ 200 and Trophy, Madllion

Greenwich Greenwich High School Andrew Bramante

6513 Rethinking Security: Developing a Touch Based Password Replacement Application For the Zune HD

Student(s) James A. Gordon **Grade 12** **Town** Cos Cob

James K. Ryan **Grade 12** **Town** Greenwich

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science Senior Team - CSF Medallion & Acrylic Award
- Computer Science Awards --- 2nd Place High School - \$300, Trophy, Medallion

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

Physical Sciences - Middle School 7th Grade

Norwalk The Montessori Middle School David Lavalee

5037 Designing a low income Eco-friendly house

Student(s) Eric Smith **Grade 7** **Town** Norwalk

- Dominion's Millstone Power Station Physical Science Awards --- 1st Place- Physical Science 7th Grade Individual - \$200 Cash & trophy
- Barnes Aerospace Applied Technology Awards --- 3rd Place Middle School - \$100 and Trophy, Medallion

Stafford Springs St. Edward School Mrs. Milnes

5044 Flying High - Measuring and Comparing Airfoil Performance in a Low-Speed Wind Tunnel

Student(s) Benjamin S. Teerlinck **Grade 7** **Town** Monson

- Dominion's Millstone Power Station Physical Science Awards --- 2nd Place- Physical Science 7th Grade Individual - \$100 Cash & trophy
- Barnes Aerospace Applied Technology Awards --- 2nd Place Middle School - \$200 and Trophy, Medallion
- Goodrich Awards for Excellence In Engineering --- Finalist - Engineering High School - CSF Medallion & Acrylic Award

Guilford E.C. Adams Middle School Cory Slifstein

5001 The Effect of the Ocean Floor on the Strength of a Wave

Student(s) Hannah C. Springhorn **Grade 7** **Town** Guilford

- Dominion's Millstone Power Station Physical Science Awards --- 3rd Place- Physical Science 7th Grade Individual - \$100 Cash & trophy

Guilford E.C. Adams Middle School Kristin Meyerjack

5013 The Effect of Different Insulators on Temperature Change

Student(s) Brendan E. Regan **Grade 7** **Town** Guilford

- Dominion's Millstone Power Station Physical Science Awards --- 4th Place- Physical Science 7th Grade Individual - trophy
- Goodrich Awards for Excellence In Engineering --- Finalist - Engineering High School - CSF Medallion & Acrylic Award

Stratford St. Mark School Philip Flynn

5006 Houston...We Have A Problem. How Coronal Mass Ejections Can Affect Life On Earth

Student(s) Emily M. Robertson **Grade 7** **Town** Stratford

- Dominion's Millstone Power Station Physical Science Awards --- 5th Place- Physical Science 7th Grade Individual - trophy
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack and Annual Report

Westbrook Westbrook Middle School Ms. Lepore

5020 Which Orange Drink Contains The Most Vitamin C?

Student(s) Sarah J. Cruz **Grade 7** **Town** Westbrook

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science 7th Grade - CSF Medallion & Acrylic Award

Woodstock Woodstock Middle School Christine Carter

5024 Carry Over Baking

Student(s) Sarah L. Oleksiak **Grade 7** **Town** Woodstock

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science 7th Grade - CSF Medallion & Acrylic Award

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

Avon Talcott Mountain Academy Tom Noonan

5035 Chlorine and Asthma

Student(s) David P. Marchena **Grade 7** **Town** New Hartford

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science 7th Grade - CSF Medallion & Acrylic Award

Manchester St. Bridget School Mrs. Maysonet

5045 The Best Heat Conductors and Insulators

Student(s) Bryan R. Balsler **Grade 7** **Town** Manchester

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science 7th Grade - CSF Medallion & Acrylic Award

Bozrah Fields Memorial School Mrs. Brown

5047 Which Nail Polish Lasts the Longest?

Student(s) Marissa A. Digby **Grade 7** **Town** Bozrah

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science 7th Grade - CSF Medallion & Acrylic Award

East Granby East Granby Middle School Mr. Langan

5052 How does the angle of the blade in a wind turbine affect the total voltage created?

Student(s) Saikrishna R. Chintalpelly **Grade 7** **Town** East Granby

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science 7th Grade - CSF Medallion & Acrylic Award

Physical Sciences - Middle School 8th Grade

Hebron Homeschool Ellen Oei

5538 The Application of Faraday's Law of Induction to Harness Ocean Wave Energy

Student(s) Bridget M. Oei **Grade 8** **Town** Hebron

- Dominion's Millstone Power Station Physical Science Awards --- 1st Place- Physical Science 8th Grade Individual - \$300 Cash & trophy
- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards Program- with Xerox --- 3rd Place Middle School - Trophy , \$100 from Xerox
- CT Clean Energy Fund Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
- eesmarts/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- 1st Place Middle School - \$500 Cash and Trophy, Trip to compete at I-SWEEEP, Houston, TX
- Goodrich Awards for Excellence In Engineering --- 1st Place- Engineering Middle School - \$300 Cash & trophy
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack and Annual Report
- Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Science 8th Grade - \$500 and invite to CSTA Award Banquet

Orange Southern CT Hebrew Academy Mrs. Karen Howell

5526 Analysis of "Green" floor choices- antimicrobial activity, water absorption, shock absorption, strength, and surface durability.

Student(s) Lilly R. Scherban **Grade 8** **Town** Woodbridge

- Dominion's Millstone Power Station Physical Science Awards --- 2nd Place- Physical Science 8th Grade Individual - \$200 Cash & trophy
- Audubon Connecticut & Arch Chemicals Environmental Awards --- MS Finalist - Audubon gifts, CSF Medallion; Non-trophied- acrylic award
- eesmarts/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy

Connecticut Science Fair

2010 Regular Fair Winners

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

Bozrah Fields Memorial School Mrs. E. Brown

5511 Investigating Variables That Affect the Temperature in a Refrigerator Using a Lego® RCX Microprocessor

Student(s) **Miranda R. Cirrito** **Grade 8** **Town** Bozrah

- Dominion's Millstone Power Station Physical Science Awards --- 3rd Place- Physical Science 8th Grade Individual - \$100 & trophy
- Computer Science Awards --- 1st Place Middle School - \$300, Trophy and Medallion

Greens Farms Greens Farms Academy Dr. Freeman

5515 Optimizing Wind Turbine Performance with Dragonfly Rotor Design

Student(s) **Jack O. Wood** **Grade 8** **Town** Redding

- Dominion's Millstone Power Station Physical Science Awards --- 4th Place- Physical Science 8th Grade Individual - trophy
- CT Clean Energy Fund Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award, Year Pass to CT Science Center
- Goodrich Awards for Excellence In Engineering --- Finalist - Engineering High School - CSF Medallion & Acrylic Award

Ridgefield East Ridge Middle School Mr. Walsh

5559 Solving Goldbach's Conjecture

Student(s) **James C. Buckley** **Grade 8** **Town** Ridgefield

- Dominion's Millstone Power Station Physical Science Awards --- 5th Place- Physical Science 8th Grade Individual - trophy
- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards Program- with Xerox --- 2nd Place Middle School- \$200 Savings Bond, and Trophy, \$200 from Xerox
- Computer Science Awards --- 2nd Place Middle School - \$200, Trophy and Medallion

Ridgefield East Ridge Middle School Mr. Christopher Walsh

5505 What types of aircraft winglets have the most efficient aerodynamics, if any at all?

Student(s) **Andrew J. McKee** **Grade 8** **Town** Ridgefield

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science 8th Grade - CSF Medallion & Acrylic Award
- Goodrich Awards for Excellence In Engineering --- Finalist - Engineering High School - CSF Medallion & Acrylic Award

Ridgefield East Ridge Middle School Mrs. Deborah Sullivan

5525 Earthquake Liquefaction: Finding the Safest Soil

Student(s) **Alec D. Pisanelli** **Grade 8** **Town** Ridgefield

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science 8th Grade - CSF Medallion & Acrylic Award

Milford St. Gabriel School Thomas McGovern

5548 "What Forms of Electromagnetic Radiation Emitted by Solar Flares and Coronal Mass Ejections from the Sun Cause the Most Interference?"

Student(s) **Lianne C. Maynard** **Grade 8** **Town** Milford

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science 8th Grade - CSF Medallion & Acrylic Award

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

Danbury St. Joseph School Mrs. Jennifer Page

5556 Comparative Thermal Resistivity (R-value) Analysis: A Study in the Effectiveness of Recycled Materials in Home Insulation

Student(s) **Michael A. Schneider** **Grade 8** **Town** Danbury

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science 8th Grade - CSF Medallion & Acrylic Award
- CT Clean Energy Fund Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award, Year Pass to CT Science Center
- eesmarts/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy

Physical Sciences - Middle School Teams

Orange Southern CT Hebrew Academy Mrs. Karen Howell

4005 The Effect of Environmental Conditions On the Corrosion of Metals and Corrosion Prevention

Student(s) **Mendel Hodakov** **Grade 8** **Town** New Haven

Shmaya Hecht **Grade 8** **Town** Orange

- Dominion's Millstone Power Station Physical Science Awards --- 1st Place- Physical Science MS Team- \$100 each & trophy
- Goodrich Awards for Excellence In Engineering --- 2nd Place- Engineering Middle School - \$200 Cash & trophy

New Haven Worthington Hooker School Mr. Jones

4023 Black Carbon detectives

Student(s) **Olivia R. Joy** **Grade 8** **Town** New Haven

Sophia O'Brien-Udry **Grade 8** **Town** New haven

- Dominion's Millstone Power Station Physical Science Awards --- 2nd Place- Physical Science MS Team- \$100 each & trophy
- eesmarts/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy

West Hartford St. Timothy Middle School Ms. McNamee

4008 Aerodynamics: Cutting Through Wind

Student(s) **Sean Oleasz** **Grade 7** **Town** West Simsbury

William Horigan **Grade 7** **Town** West Hartford

- Dominion's Millstone Power Station Physical Science Awards --- 3rd Place- Physical Science MS Team- trophy
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack and Annual Report

Danbury St. Gregory the Great School Mrs. J. Ferry

4009 A Poison Kiss

Student(s) **Katie Fellmeth** **Grade 8** **Town** Danbury

Jessica Torielli **Grade 8** **Town** Danbury

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science Jr Team - CSF Medallion & Acrylic Award

Southington Joseph A. DePaolo Middle School Patricia Kenefick

4011 The Melting Factor

Student(s) **Michael J. Rogalski** **Grade 8** **Town** Southington

Alexander J. Queen **Grade 8** **Town** Southington

- Dominion's Millstone Power Station Physical Science Awards --- Finalist - Physical Science Jr Team - CSF Medallion & Acrylic Award