



# 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.*

**Sorted by:**

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

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

**Avon** Talcott Mountain Academy Mr. Thomas Noonan

5549 Microbial Fuel Cells: Electrifying Our Food

**Student(s)** Alexandra S. Fielding **Grade 8** **Town** Southbury

- CT Clean Energy Fund Alternative/Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy
- Quinnipiac University Scholarships --- \$20,000, 4 year scholarship to Quinnipiac University for Middle School Student

**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

**Avon** Talcott Mountain Academy Mark Meredith

5021 How To Win Monopoly

**Student(s)** Edward A. Tomasso **Grade 7** **Town** Farmington

- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards Program- with Xerox --- Middle School Finalist - Medallion & acrylic award

**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

**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

**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

**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

# Connecticut Science Fair

## 2010 Regular Fair Winners

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

**Bridgeport** Bassick High School Donna Koolis

6060 Wing Power

**Student(s)** Karim Kharbouch **Grade 9** **Town** Bridgeport

- Goodrich Awards for Excellence In Engineering --- Finalist - Engineering Middle School - CSF Medallion & Acrylic Award

**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

**Bridgeport** Bridgeport Aquaculture School Carla Ebmeyer

3031 Analyzing Methods of DNA Extraction of Spartina alterniflora

**Student(s)** Taylor R. Gofstein **Grade 11** **Town** Bridgeport

- Audubon Connecticut & Arch Chemicals Environmental Awards --- 3rd Place HS- \$100, Trophy, Audubon gifts

**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

**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

**Danbury** Danbury High School Andrea LaRosa

6062 Can a Calorimeter Measure Thermal Radiation Absorbed by Paints?

**Student(s)** John C. Lavelle **Grade 11** **Town** Danbury

- Goodrich Awards for Excellence In Engineering --- Finalist - Engineering Middle School - CSF Medallion & Acrylic Award

**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

# Connecticut Science Fair

## 2010 Regular Fair Winners

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

**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

**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

**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

**Darien** Darien High School David A. Lewis

3057 Expression of a Lignin Catabolic Orthologue Found in Chromobacterium violaceum

**Student(s)** **Andrew P. Gagne** **Grade 12** **Town** Darien

- CT Clean Energy Fund Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Trophy

**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

**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

**Fairfield** Fairfield Warde High School Mrs. Patrice Faggella

3060 Studying the effect of tea polyphenols on MCF-7 breast cancer cells

**Student(s)** **Neil V. Gade** **Grade 10** **Town** Fairfield

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

**Glastonbury** Glastonbury High School Mrs. Hanlon

3063 Inhibition of Post Surgical Wound Infection Contributing Pathogen Growth With Turmeric

**Student(s)** **Kaitavjeet Chowdhary** **Grade 9** **Town** Glastonbury

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

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

**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

**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

**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

**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

**Greenwich** Greenwich High School Andrew Bramante

6068 Synthesis of Magnesium Oxide Nanocrystals for use in Solid State Lighting

**Student(s)** Victor P. Ansart **Grade 12** **Town** Greenwich

- Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award

**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

[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

**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

**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

**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 Mr. Andrew Bramante

3028 Exploring the Antioxidative Effects of Ergothioneine as a Dermal Protectant

**Student(s)** **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 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

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

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

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

3033 Airborne Containment Removal Using Household Plants

**Student(s)** James O'Sullivan **Grade** 10 **Town** Old Greenwich

- 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

**Student(s)** Felix Zhou **Grade** 12 **Town** Old Greenwich

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

**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

**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

**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

**Hamden** Sacred Heart Academy Michelle Pirruccello

3076 Investigating a Conserved Sequence in Endophilin

**Student(s)** Alexandra Buda **Grade** 12 **Town** Woodbridge

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

**Hartford** Hartford Magnet Middle School Ms. Parmelee

5503 Breaking Trusses

**Student(s)** Reed C. Truax **Grade** 8 **Town** Southington

- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- Goodrich Awards for Excellence In Engineering --- Finalist - Engineering High School - CSF Medallion & Acrylic Award

# Connecticut Science Fair

## 2010 Regular Fair Winners

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

**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
- eesmarks/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

**Hebron** RHAM High School Mrs. Jean Laughman

6042 Asphalt as Solar Panels: The Road to a New Source of Renewable Energy

**Student(s)** **Andrew J. Breckel** **Grade 9** **Town** Hebron

- Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award

**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

**Lebanon** Lyman Memorial High School Karen Collins

6011 The Most Effective Insulation For Homes

**Student(s)** **Emelia R. Cooper** **Grade 9** **Town** Columbia

- Goodrich Awards for Excellence In Engineering --- Finalist - Engineering Middle School - CSF Medallion & Acrylic Award

**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

**Madison** Polson Middle School Madhuparna Roychoudhury

4019 Earthquake resistant buildings for underdeveloped regions.

**Student(s)** **Adam P. Boey** **Grade 8** **Town** Madison

**Shayan Roychoudhury** **Grade 7** **Town** Madison

- Goodrich Awards for Excellence In Engineering --- 3rd Place- Engineering Middle School - \$100 Cash & trophy
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack and Annual Report

# Connecticut Science Fair

## 2010 Regular Fair Winners

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

**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

**Manchester** St. Bridget School Mrs. Maysonet

5045 The Best Heat Conductors and Insulators

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

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

**Meriden** Thomas Edison Middle School Mr. Newlan

4020 Solar Powered Desalinating Hydroponic Plant System

**Student(s)** Megan C. Carroll **Grade 8** **Town** Meriden

Cassidy T. Cooley **Grade 8** **Town** Meriden

- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award

**Meriden** Wilcox Technical High School Jim Lundebjerg

6074 Solar Energy

**Student(s)** Kristen B. Lundebjerg **Grade 9** **Town** Berlin

- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and 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

**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

**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

# Connecticut Science Fair

## 2010 Regular Fair Winners

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

**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

**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

**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
- eesmarks/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic 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

**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

**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

**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

# Connecticut Science Fair

## 2010 Regular Fair Winners

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

**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

**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

**Norwich** Norwich Free Academy Mr. Robert Johnson

6026 Efficiency of Renewable Energy Storage System

**Student(s)** **Ian D. Dakers** **Grade 10** **Town** Bozrah

- CT Clean Energy Fund Alternative/Renewable Energy Awards --- High School Finalist - Medallion, Year Pass to CT Science Center
- Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award

**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

**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

**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

**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

# Connecticut Science Fair

## 2010 Regular Fair Winners

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

**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

**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

**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. LaBanca

3011 Evaluation of the Sharp Shooter: a patent-pending muscle memory athletic training tool.

**Student(s)** **Joe P. Greco** **Grade 10** **Town** Oxford

- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards Program- with Xerox --- High School Finalist - Medallion & acrylic award

**Oxford** Oxford High School Dr. Frank LaBanca

3020 Biological Strategies for Biodiesel Synthesis

**Student(s)** **David J. Samuelman** **Grade 11** **Town** Oxford

- Barnes Aerospace Applied Technology Awards --- Senior High 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

**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

# Connecticut Science Fair

## 2010 Regular Fair Winners

[SchTown] [School] [Teacher]  
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**Pawcatuck** St. Michael School Mr. Bernard Petkis

5527 Testing the Consistency of the Kaprekar Constant

**Student(s)** **Ronald C. Hillegass** **Grade 8** **Town** Stonington

- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards Program- with Xerox --- 1st Place Middle School- \$300 Savings Bond, and Trophy, \$300 from Xerox
- Computer Science Awards --- 3rd Place Middle School- \$100, Trophy, Medallion

**Pawcatuck** St. Michael School Mr. Bernard Petkis

4014 A measure of the volatility, of systematic risk of a security or portfolio in comparison to the market: Beta

**Student(s)** **Andrew A. McCauley** **Grade 8** **Town** Pawcatuck

**Nicholas J. Rosa** **Grade 8** **Town** Pawcatuck

- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards Program- with Xerox --- Middle School Finalist - Medallion & acrylic award

**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

**Plantsville** John F. Kennedy Middle School Cipollini and Kenefick

5543 Green Hot: A Mathematical Model to Determine Effectiveness of Recycled Materials as Insulation

**Student(s)** **Stephen J. Peccerillo** **Grade 8** **Town** Southington

- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- 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 --- 3rd Place Middle School - \$200 Cash and Trophy

**Plantsville** 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

**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

**Putnam** Putnam Science Academy Serdar Haytiyev

6518 Producing electricity from organic waste by using Electrochemical Cell method

**Student(s)** **Mehmet S. Akarsu** **Grade 10** **Town** Putnam

**Bahadir T. Ozgenturk** **Grade 10** **Town** Putnam

- CT Clean Energy Fund Alternative/Renewable Energy Awards --- High School Finalist - Medallion, Year Pass to CT Science Center

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

**Putnam** Putnam Science Academy Ahmet Cakar

3504 Producing Environmental Friendly Plastics from Starch and Comparing it with Plastics made from Petroleum Derivatives

**Student(s)** Ibrahim Buyukcelebi **Grade** 10 **Town** Putnam

Alperen F. Tuzuner **Grade** 10 **Town** Putnam

- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award

**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

**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 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

# Connecticut Science Fair

## 2010 Regular Fair Winners

[SchTown] [School] [Teacher]  
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**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

**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

**Shelton** Shelton High School Mr. Seppa, Mr. Mohan

6044 Debt Detecting Software: A Novel Creation

**Student(s)** **Priya Mohan** **Grade 11** **Town** Shelton

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

**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

**Shelton** Shelton High School Ed Seppa

6041 Anatomy of the Search Engine

**Student(s)** **Hania Zaman** **Grade 12** **Town** Shelton

- Computer Science Awards --- 3rd Place High School- \$200, Trophy, Medallion

**Southington** Joseph A. DePaolo Middle School Mrs. Kenefick

5550 Tractor Trailers- What A Drag

**Student(s)** **Daniel Connolly** **Grade 8** **Town** Southington

- Barnes Aerospace Applied Technology Awards --- 1st Place Middle School - \$300 and Trophy, Medallion

**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

**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

# Connecticut Science Fair

## 2010 Regular Fair Winners

[SchTown] [School] [Teacher]  
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**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

**Trumbull** St. Catherine of Siena School Mrs. Schickler

5522 Magnus Effect: The Influence and Energy Output of High Altitude Horizontal Wind Rotor Systems

**Student(s)** **Ethan C. Kee** **Grade 8** **Town** Trumbull

- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- Audubon Connecticut & Arch Chemicals Environmental Awards --- 3rd Place MS- \$100, Trophy, Audubon gifts
- CT Clean Energy Fund Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award, Year Pass to CT Science Center

**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

**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

**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

**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

**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

**Westbrook** Westbrook Middle School Cathi Lepore

5041 Lighting Alternatives

**Student(s)** **Kaitlyn M. Luft** **Grade 7** **Town** Westbrook

- CT Clean Energy Fund Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award, Year Pass to CT Science Center

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**Weston** Weston High School Ms. Lauren Hauser

3071 The Anti-bacterial Effect of Diferuloyl Methane on Enteropathogenic Escherichia coli

**Student(s)** Sagar N. Kaushik **Grade 11** **Town** Weston

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

**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

**Westport** Coleytown Middle School Jodi Reiman

5547 The Effects of Varying Pressures Used to Propel an Object on the Distance it Travels

**Student(s)** Alec E. Solder **Grade 8** **Town** Westport

- Goodrich Awards for Excellence In Engineering --- Finalist - Engineering High 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

**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

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

**Windsor** Madina Academy Mehwish Amin

2523 Biodegradable Plastic Just Might Be The Solution To Landfill Problems

**Student(s)** Rubina Bhura **Grade 8** **Town** East Hartford

- Audubon Connecticut & Arch Chemicals Environmental Awards --- 2nd Place MS- \$200, Trophy, Audubon gifts
- eesmarts/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy

**Woodbridge** Amity Regional High School Ms. Deborah Day

3062 An Invertebrate Model for the Study of Microvasculature

**Student(s)** 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

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

**Woodbridge** Amity Regional High School Ms. Deborah Day

3043 The role of microRNA-155 in conferring radioresistance in lung adenocarcinoma tumor cells

**Student(s)** **David J. Steinmetz** **Grade 12** **Town** Woodbridge

- 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

**Student(s)** **Yuqi Zhang** **Grade 12** **Town** Woodbridge

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

**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

**Woodstock** Woodstock Middle School Christine Carter

4003 Hydro Power

**Student(s)** **Cody Resnick** **Grade 8** **Town** Woodstock

**Cormac Lundt** **Grade 8** **Town** Woodstock

- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- CT Clean Energy Fund Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award, Year Pass to CT Science Center
- eesmarks/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- Goodrich Awards for Excellence In Engineering --- Finalist - Engineering High School - CSF Medallion & Acrylic Award