



Connecticut Science Fair

Quinnipiac University

March 13 - 17, 2012

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

Westport Staples High School Alfred J. Scheetz

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

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,

Hamden Hamden High School Sonia Beloin

3061 Role of MyD88 in DNA Damage Response

Student(s) Yiyuan Hu **Grade** 12 **Town** Hamden

- Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High- \$300 & trophy, Trip to compete at Intel ISEF

Greenwich Greenwich High School Andrew Bramante

3042 Mycoremediation of PCB Soil Contaminants with Pleurotus Ostreatus

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
- eesmarts/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

Greenwich Greenwich High School Andrew Bramante

3095 The Effect of Disinfectant Byproducts in Relation to Allergic Asthma

Student(s) Morgan Karetnick **Grade** 12 **Town** Greenwich

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

Greenwich Greenwich High School Andrew Bramante

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

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

- Pfizer Life Sciences Awards --- 5th Place- Life Sciences Senior High- trophy
- Alexion Biotechnology Awards --- 4th Place- Biotechnology Senior High- \$200 & trophy

Storrs E. O. Smith High School Jon Swanson

3038 Propagation and Mass Changes of Coral under Different Circumstances

Student(s) Timothy Nolan **Grade** 10 **Town** Willington

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

Greenwich Greenwich High School Andrew Bramante

3045 The Compatibility Between Pure 2-D Sericin Membranes and Cell Growth

Student(s) Jed McKinney **Grade** 11 **Town** Old Greenwich

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

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

Woodbridge Amity Regional High School Deborah Day

3054 Photodynamic Therapy for Accelerated Wound Healing

Student(s) Shiyu Zhuang **Grade** 11 **Town** Orange

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

Darien Darien High School David Lewis

3057 Use of Formant Values in Classifying Vocalizations of Beluga Whales (*Delphinapterus leucas*)

Student(s) Brooke Davis **Grade** 12 **Town** Darien

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

Watertown The Taft School Mr. Michael McAloon

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

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

Hamden Sacred Heart Academy Dr. Elizabeth Christophy

3075 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

Student(s) Olivia Kelly **Grade** 10 **Town** Shelton

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

Woodbridge Amity Regional High School Deborah Day

3078 The Prevalence of Family History of Psychiatric Conditions Among Individuals with Optimal Outcomes and Individuals who have Retained Their Autism Spectrum Disorder Diagnoses.

Student(s) Andrew Chen **Grade** 11 **Town** Bethany

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

New Haven Hopkins School Frank Slack

3080 Expression Patterns of MicroRNA-228 in *C. Elegans*

Student(s) Mariel Shlomchik **Grade** 11 **Town** Woodbridge

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

Danbury Danbury High School Mr. LaRosa

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

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

Greenwich Greenwich High School Andrew Bramante

3099 The regeneration of human tooth enamel in physiological conditions

Student(s) Stephen Le Breton **Grade** 11 **Town** Greenwich

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

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

Life Sciences - High School Teams

New Haven Wilbur Cross High School Mary DeRome

3512 Brachypodium distachyon: Building a Better Biofuel

Student(s) **Tarpley Hitt** **Grade** 11 **Town** New Haven
Alessandra Hogan **Grade** 11 **Town** New Haven

- Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High Team- \$500 (split) & trophy
- Urban School Challenge Awards --- Senior High Finalist - Medallion and acrylic award

Hartford Greater Hartford Academy of Math & Science Dr. Aramli

3508 The Effect of Drugs and Herbal Remedies on Propionibacterium Acnes

Student(s) **Kush Desai** **Grade** 12 **Town** Rocky Hill
Rushi Shah **Grade** 11 **Town** Rocky Hill
Jasmine Wilson **Grade** 11 **Town** Rocky Hill

- Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High Team- \$300 (split) & trophy
- Urban School Challenge Awards --- Senior High Finalist - Medallion and acrylic award

West Hartford American School for the Deaf Mary Laporta

3501 Beluga Behavior Study

Student(s) **Dazjahnique Parker** **Grade** 11 **Town** Ansonia
Faye Frez-Albrecht **Grade** 11 **Town** Canton
Lynette Saucier **Grade** 11 **Town** Bristol

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

Putnam Putnam Science Academy MEHMET YARAMIS

3504 The Effects of Watershed Pollution on the Common Inhabitant Fresh Water Plant, Nasturtium officinale

Student(s) **Mehmet Karaduman** **Grade** 9 **Town** Putnam
Mehmet Eygoren **Grade** 9 **Town** Putnam
Hacibey Catalbasoglu **Grade** 9 **Town** Putnam

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

Danbury Immaculate High School Mrs. Murphy

3510 Microbial Fuel Cell Efficiency and Design

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

Windsor Madina Academy Upper School Iman Al-Naggar

3513 Agave: The Future of Biofuels A Comparison of the Biofuel Potential of Agave Americana Grown with Different Amounts of Water

Student(s) **Aasiya Ahmed** **Grade** 9 **Town** Windsor
Usra Qureshi **Grade** 9 **Town** Windsor

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

[SchTown] [School] [Teacher]
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Putnam Putnam Science Academy Serdar Haytiyev

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

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
- eesmarts/CT Energy Efficiency Fund Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award

Shelton Shelton High School Daniel Nazzaro

3522 How Radiation Affects Cells

Student(s) **Caroline Steadham** **Grade** 9 **Town** Shelton

Sydney Carter **Grade** 9 **Town** Shelton

Johnna Bakalar **Grade** 9 **Town** Shelton

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

Life Sciences - Middle School 7th Grade

Norwalk The Montessori Middle School Carolyn Stenerson

2006 Affects of Phosphorus on Growth of Azolla.

Student(s) **Katherine Fennell** **Grade** 7 **Town** Wilton

- Pfizer Life Sciences Awards --- 1st Place- Life Sciences 7th grade- \$200 & trophy and Invitation to Compete Broadcom MASTERS

Kensington St. Paul School Bethany Perzanowski

2013 THE ECO-FRIENDLY DIAPER: LANDFILL DESIGN. "The Type of Cloth Versus the Rate of Decomposition"

Student(s) **Elizabeth Lopreiato** **Grade** 7 **Town** New Britain

- Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS

Danbury St. Joseph School Mrs. Page

2030 How Does Caffeine Effect the Heart

Student(s) **Wes Gannon** **Grade** 7 **Town** Danbury

- Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS

Norwalk The Montessori Middle School Carolyn Stenerson

2027 How What we Eat for Breakfast Affects Schoolwork, Mood, Wakefulness, and Energy Throughout the Morning.

Student(s) **Jonas Lustbader** **Grade** 7 **Town** Weston

- Pfizer Life Sciences Awards --- 4th Place- Life Sciences 7th grade- trophy and Invite to Compete Broadcom MASTERS

Trumbull St. Catherine of Siena School Mrs. Kelly Collins

2020 Should We Be Going Bananas?! The Study of Ocean and Freshwater Acidification and its Harmful Effect on the Shells of Aquatic Organisms and the Evaluation of a Banana-Derived Additive to Reduce It.

Student(s) **Abigail Kelly** **Grade** 7 **Town** Shelton

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

Avon Talcott Mountain Academy John Pellino

2004 Environmental Acidity and Bioluminescent Algae

Student(s) **Abigail Marmer-Adams** **Grade** 7 **Town** Colebrook

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

[SchTown] [School] [Teacher]
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Bridgeport Thurgood Marshall Middle School Carmen Andrews

2007 Peel Power

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

- Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion & Acrylic Award
- Urban School Challenge Awards --- 1st Place Middle School - \$300 and Trophy, Medallion and Project Oceanology's Ocean Camp
- Alexion Biotechnology Awards --- 2nd Place- Biotechnology 7th grade- \$200 & trophy

New Britain Sacred Heart School Mrs. Kornas

2010 Total Suspended Solids on Waste Water

Student(s) Mateusz Gaciarz **Grade 7** **Town** New Britain

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

Madison Our Lady of Mercy School Rosalie Zonder

2011 The Efficacy of Bleach as a Disinfectant

Student(s) Nicole Bonadies **Grade 7** **Town** Branford

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

Windsor Madina Academy Aisha Seyal

2017 Can homeopathic solutions inhibit the growth of Group A Streptococcus bacteria?

Student(s) Amira Elfeky **Grade 7** **Town** Simsbury

- Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion & Acrylic Award
- Alexion Biotechnology Awards --- 5th Place- Biotechnology 7th grade- trophy

Guilford E. C. Adams Middle School Ms. Arnold

2018 Ants, Glucose, Diabetes....Huh?

Student(s) Manik Jayawardena **Grade 7** **Town** Guilford

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

Life Sciences - Middle School 8th Grade

Orange Southern Connecticut Hebrew Academy Mrs. Karen Howell

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

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

Orange Southern Connecticut Hebrew Academy Karen J Howell

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

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

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

Greenwich Eastern Middle School Brian Carstens

2512 An Investigation Into Hydrogen-Producing Green Algae

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

Windsor Madina Academy Aisha Seyal

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

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
- eesmarts/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

Bethel Bethel Middle School Mr. Labounty

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

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

Bozrah Fields Memorial School Mrs. E Brown

2503 Teredo Navalis - A Population Density Study

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

East Granby East Granby Middle School Robert Paskiewicz

2522 The Dirt on Worms

Student(s) Olivia Morris **Grade 8** **Town** East Granby

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

East Granby East Granby Middle School Ms. Scull

2539 Pharmaceutical and Herbal Antibiotic Effectiveness on Bacteria from Multiple Collection Sources

Student(s) Matthew Borsari **Grade 8** **Town** East Granby

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

[SchTown] [School] [Teacher]
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Fairfield Our Lady of the Assumption School Kathy Almeida

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

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

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

Pawcatuck St. Michael School Michael Denoia

2541 Killing The Invisible Enemy On Our Hands: Do We Use Soap Or Hand Sanitizer?

Student(s) **Adeline Visscher** **Grade 8** **Town** Mystic

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

Life Sciences - Middle School Teams

Orange Southern Connecticut Hebrew Academy Mrs. Karen Howell

1022 Analysis of Omega Oils as Cancer Inhibitors and Antioxidants plus Effect on Cell Bioavailability

Student(s) **Rivka Kantor** **Grade 8** **Town** Westport

Bracha Hecht **Grade 8** **Town** Orange

- Pfizer Life Sciences Awards --- 1st Place- Life Sciences MS Team- \$100 each & trophy and Invite to Compete Broadcom MASTERS

Orange Southern Connecticut Hebrew Academy Karen Howell

1014 Hydration Benefits with Fruits and Vegetables and Effect on Cell Absorption

Student(s) **Devora Hodakov** **Grade 7** **Town** New Haven

Batsheva Lipsker **Grade 7** **Town** Stamford

- Pfizer Life Sciences Awards --- 2nd Place- Life Sciences MS Team- \$100 each & trophy and Invite Compete Broadcom MASTERS
- Alexion Biotechnology Awards --- 4th Place- Biotechnology 7th grade- trophy

New Hartford Montessori Middle School at Millstream Farm Caren Ross

1016 Harvesting Wild Yeast For Local Sourdough

Student(s) **Una Shea** **Grade 8** **Town** Litchfield

Brooke Hurst **Grade 8** **Town** West Simsbury

Samantha Brady **Grade 8** **Town** Thomaston

- Pfizer Life Sciences Awards --- 3rd Place- Life Sciences MS Team- trophy and Invite to Compete Broadcom MASTERS

Danbury St. Joseph School Jennifer Page

1002 Is it REALLY Blood?

Student(s) **Alex Christoforides** **Grade 7** **Town** Danbury

John Mollenthiel **Grade 7** **Town** Danbury

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

Ridgefield East Ridge Middle School Mrs. Sullivan

1005 The Effectiveness of Natural Acne Products vs. Chemical Commercial Products

Student(s) **Margaret Comer** **Grade 8** **Town** Ridgefield

Gwen Byrne **Grade 8** **Town** Ridgefield

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

[SchTown] [School] [Teacher]
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Newtown St. Rose of Lima School Mrs. Dimon

1010 Testing the Effect of pH Levels of Polluted Fresh Water on Elodea Canadensis Life Span

Student(s) **Lauren Cirone** **Grade 7** **Town** Newtown
Anna Brubaker **Grade 7** **Town** Southbury

- Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion & Acrylic Award
- Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & trophy

Plantsville John F. Kennedy Middle School Mrs. Pepin

1017 The Effects of Global Warming on Marine Life

Student(s) **Kimberly Stafko** **Grade 7** **Town** Southington
Alexa Maddalena **Grade 7** **Town** Southington

- Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion & Acrylic Award
- Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion & Acrylic Award Souvenir

Pawcatuck St. Michael School Mr. DeNoia

1019 The Mighty Houseplant

Student(s) **Kelly Giffault** **Grade 7** **Town** Stonington
Paige Giffault **Grade 7** **Town** Stonington

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

Physical Sciences - High School Individual

Greenwich Greenwich High School Andrew Bramante

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

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

Manchester East Catholic High School Ms. Holly Noble

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

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

Connecticut Science Fair

2012 Regular Fair Winners

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Fairfield Fairfield College Preparatory School Dr. Lewis

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

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,

Westport Staples High School Dr. Nicholas Morgan

6033 NGC 2194: Clues to Stellar Evolution

Student(s) Kim Adler **Grade** 11 **Town** Westport

- Dominion's Millstone Power Station Physical Sciences Awards --- 4th Place- Physical Sciences Senior High Individual - trophy

Greenwich Greenwich High School Andrew Bramante

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

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

Guilford Guilford High School John Cuddy

6003 Aerodynamic drag of bicycle wheels and its effect on total drag of a rider and his bike

Student(s) Giuseppe Pantalone **Grade** 9 **Town** Guilford

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

Oxford Oxford High School Mr. Kroeze

6009 Alternative Material and Three-Dimensional Structure to Solar Panel Technology

Student(s) William Denslow **Grade** 11 **Town** Oxford

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

Norwich Norwich Free Academy Mrs. Jones

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

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
- eesmarts/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

[SchTown] [School] [Teacher]
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Storrs E. O. Smith High School Robert Pirrie

6026 Membranes for Biochemical Separations

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

Bridgeport Bridgeport Aquaculture School Mr. Shadle

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

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

Glastonbury Glastonbury High School Diane Pintavalle

6043 The Coordination of Glucose with Transition-Metal-Ion Complexes of tris(2-aminoethyl)amine

Student(s) Kashish Hora **Grade 11** **Town** Glastonbury

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

Fairfield Fairfield Warde High School Andrew Bramante

6045 A Hidden Treasure; Dehumidification of Air Improves Indoor Air Quality

Student(s) Sofia Bramante **Grade 10** **Town** Fairfield

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

Greenwich Greenwich High School Andrew Bramante

6063 Simplified Detection of Aromatic Nitroamine Pesticides using Bee Venom Luminescence

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

Shelton Shelton High School Mrs. Dunham

6066 Revolutionizing Cancer Treatment: A Simulation of Nanocarriers Using Swarm Intelligence for Targeted Cancer Cells

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

Greenwich Greenwich High School Andrew Bramante

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

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

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

Greenwich Greenwich High School Andrew Bramante

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

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

Physical Sciences - High School Teams

Middletown Xavier High School Manoj Rahematpura

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

Student(s) Christopher Muckle **Grade** 12 **Town** Madison

Miraj Rahematpura **Grade** 12 **Town** Middletown

Mario Chris **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

Madison Daniel Hand High School Madhuparna Roychoudhury

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

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

Greenwich Brunswick School Mrs. Dana Montanez

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

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

Putnam Putnam Science Academy Serdar Haytiyev

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

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

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

Putnam Putnam Science Academy Serdar Haytiyev

6510 Efficient and Practical Approach to Removal of BTEX from Industrial Waste Water by Using Tea Waste

Student(s) **Rejepmuhammet Gurbannazarov** **Grade 10** **Town** Putnam
Kerem On **Grade 10** **Town** Putnam

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

Putnam Putnam Science Academy Hakan Duman

6513 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

Student(s) **Zekeriya Abacioglu** **Grade 12** **Town** Putnam
Bahadir Ozgenturk **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

Shelton Shelton High School Mr. Nazzaro

6516 What is the Fastest Way to Solve a Sudoku Puzzle?

Student(s) **Ryan Zuklie** **Grade 12** **Town** Shelton
Alex Wlcek **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

Physical Sciences - Middle School 7th Grade

Newtown St. Rose of Lima School Mrs. Dimon

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

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

Wilton Middlebrook School Robert Moya

5019 Improving Efficiency of Solar Energy

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

Danbury St. Joseph School Mrs. Page

5005 Designing an Effective Dye-Sensitized Solar Cells

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

[SchTown] [School] [Teacher]
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Stratford St. Mark School Mr. Phil Flynn

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

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 & Acrylic Award
- Clean Energy Finance and Investment Authority Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award

Stafford Springs St. Edward School Mrs. Napolitano

5024 The Science of Tornadoes

Student(s) Samuel Teerlinck **Grade 7** **Town** Monson

- Dominion's Millstone Power Station Physical Sciences Awards --- 5th Place- Physical Sciences 7th Grade Individual - trophy

Stratford St. Mark School Phillip Flynn

5012 Go With The Flow: Applying Darcy's Law to the Flow of Groundwater

Student(s) Gabriella Larizza **Grade 7** **Town** Stratford

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

Westbrook Westbrook Middle School Mrs. Lepore

5013 How is a Soils Permeability Related to its Grain Size Distribution?

Student(s) Liam Collins **Grade 7** **Town** Westbrook

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

Bozrah Fields Memorial School Mrs. E Brown

5021 What variables affect the grasp efficiency of a robotic arm?

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

Danbury St. Joseph School Mrs. Page

5032 Ocean Wave and Tide Energy Project

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

Windsor Madina Academy Aisha Seyal

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

Student(s) Osama EISherbini **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
- eesmarts/CT Energy Efficiency Fund Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy

[SchTown] [School] [Teacher]
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Plantsville John F. Kennedy Middle School Joseph Cipollini

5041 Visible or Invisible

Student(s) Delaney Picard **Grade 7** **Town** Southington

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

Physical Sciences - Middle School 8th Grade

Glastonbury Smith Middle School Mr. Falcigno

5528 On the Application of Electrochemical Double Layer Capacitors

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

Hebron Oei Home School Mrs. Ellen Oei

5525 Development of a Prototype Pendulum Wave Energy Conversion Device

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

Orange Southern Connecticut Hebrew Academy Mrs. Karen Howell

5547 Absorption Rate of Lead Compounds on Simulated Skin and Cells and Effect of Chelators and Heat on Absorption.

Student(s) Yehoshua Yaffe **Grade 8** **Town** Guilford

- Dominion's Millstone Power Station Physical Sciences Awards --- 3rd Place- Physical Sciences 8th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS

East Granby East Granby Middle School Mr Paskiewicz

5520 Comparison of Baseball Bat Composition: Safety

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

- Dominion's Millstone Power Station Physical Sciences Awards --- 4th Place- Physical Sciences 8th Grade Ind. - trophy, invite to compete Broadcom MASTERS
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report

Norwalk All Saints Catholic School Erin Snow

5541 A Bridge Too Strong

Student(s) Zachary Guerrero **Grade 8** **Town** Norwalk

- Dominion's Millstone Power Station Physical Sciences Awards --- 5th Place- Physical Sciences 8th Grade Ind. - trophy, invite to compete Broadcom MASTERS

Connecticut Science Fair

2012 Regular Fair Winners

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

Manchester St. Bridget School Kim Maysonet

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

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

Trumbull St. Catherine of Siena School Mrs. Kelly Collins

5512 Cold Pack Chemistry

Student(s) **William Quigley** **Grade 8** **Town** Trumbull

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

Wilton Middlebrook School Norman Kendra

5516 Material Density vs. Angle of Refraction

Student(s) **Mishil Nana** **Grade 8** **Town** Wilton

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

Norwalk The Montessori Middle School Carolyn Stenerson

5527 The Wing and the Wind

Student(s) **Nicolas Lob** **Grade 8** **Town** Fairfield

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

Windsor Madina Academy Aisha Seyal

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

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

Bozrah Fields Memorial School Mrs. E. Brown

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

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

Fairfield Our Lady of the Assumption School Kathy Almeida

5551 Which Plane Design Creates the Greatest Lift?

Student(s) **Matthew Boykin** **Grade 8** **Town** Bridgeport

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

Stratford Harry B. Flood Middle School Mr. David Gorski

5553 Measuring Temperature with a Violin

Student(s) **Autumn Wagner** **Grade 8** **Town** Stratford

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

[SchTown] [School] [Teacher]
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Physical Sciences - Middle School Teams

Plantsville John F. Kennedy Middle School Pepin

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

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
- 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

Old Saybrook Old Saybrook Middle School Mary Looney

4019 Vehicle Energy Conservations

Student(s) **Kiwon Dionne-Jee** **Grade 7** **Town** Old Saybrook
Alexander Ruth **Grade 7** **Town** Old Saybrook

- Dominion's Millstone Power Station Physical Sciences Awards --- 2nd Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS

Ridgefield East Ridge Middle School Mrs. Deborah Sullivan

4007 Soap Mania

Student(s) **Sarah Battipaglia** **Grade 8** **Town** Ridgefield
Elisa Jonas **Grade 8** **Town** Ridgefield

- Dominion's Millstone Power Station Physical Sciences Awards --- 3rd Place- Physical Sciences MS Team- trophy, invite to compete Broadcom MASTERS

Ridgefield East Ridge Middle School Ms. Sullivan

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

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

Orange Southern Connecticut Hebrew Academy Mrs. Howell

4010 Analysis and Bioavailability of Chemical Dyes Versus Natural Dyes with their Antioxidant Benefits.

Student(s) **Chana Piekarski** **Grade 7** **Town** Hamden
Esther Caroline **Grade 7** **Town** New Haven

- Dominion's Millstone Power Station Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion & Acrylic Award
- Alexion Biotechnology Awards --- 1st Place- Biotechnology 7th grade- \$300 & trophy

New Haven Worthington Hooker Middle School Doug Jones

4024 Increasing Solar Energy

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

Connecticut Science Fair

2012 Regular Fair Winners

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

Bethel Bethel Middle School Mr. Reynolds

[4029] How Does Combining Metals Lead to Rust Development

Student(s) **Jessica MacIntyre** **Grade 7** **Town** Bethel
Kallan Hook **Grade 7** **Town** Bethel

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

Bridgeport John Winthrop School Susan Beres

[4033] Tension Tamers

Student(s) **Kara Cloud** **Grade 7** **Town** Bridgeport
Edgar Martinez **Grade 7** **Town** Bridgeport

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

Newtown Newtown Middle School Betty Jeanne Liberty

[4035] The Effect of Soil Type on Earthquake Damage

Student(s) **Lydia Field** **Grade 8** **Town** Newtown
Caitlin Moss **Grade 8** **Town** Sandy Hook

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