



Connecticut Science Fair

Quinnipiac University

March 13 - 17, 2012

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

Final Judging Results

Mathematics

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

Award Legend

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

Middle School

Bozrah Fields Memorial School Mrs. E Brown

2534 L8 Password Security

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

- ATOMIC (Associated Teachers of Mathematics In CT) Mathematics Awards - with People's United Bank --- 1st Place Middle School- \$150 from ATOMIC, and Trophy, \$300 from People's United Bank
- Xerox Computer Science Awards --- 1st Place Middle School - \$300, Trophy and Medallion
- IEEE, Connecticut Section --- \$100 Honorable Mention

Greens Farms Greens Farms Academy Sara Campolettano

5554 P8 Ski Physics

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

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

Ridgefield East Ridge Middle School Ms. Sullivan

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

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

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

Hebron Oei Home School Mrs. Ellen Oei

5525 P8 Development of a Prototype Pendulum Wave Energy Conversion Device

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

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



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Stratford St. Mark School Mr. Phil Flynn

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

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

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



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High School

Trumbull Christian Heritage School Dan Cote

6053 PS The general equation of the sum of power series

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

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

Watertown The Taft School Mr. Michael McAloon

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

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

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

Glastonbury Glastonbury High School Ms. Pintavalle

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

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

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

Manchester East Catholic High School Ms. Holly Noble

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

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

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



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Westport Staples High School Dr. Michele Morse

3033 LS Chaos in Bacterial Growth with Sinusoidal Temperature Cycles

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

Grade 11 **Town** Westport

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