



Connecticut Science & Engineering Fair

Quinnipiac University

March 12 - 16, 2013

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

Final Judging Results

Award Legend

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

Mathematics

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

Middle School

Madison Walter C. Polson Middle School Madhuparna Roychoudhury

5521 P8 A New Mathematical-Equation Based Approach for Faster and Efficient Digital Video Transmission

Award 1 **Student(s)** Ankita Roychoudhury **Grade** 8 **Town** Madison

- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
- People's United Bank Mathematics Awards - with ATOMIC --- 1st Place Middle School- \$150 from ATOMIC, and Trophy, \$300 from People's United Bank
- Xerox Computer Science Awards --- 3rd Place Middle School- \$100, Trophy, Medallion

Bozrah Fields Memorial School Mrs. E. Brown

5006 P7 Perfect Plastic

Award 2 **Student(s)** Katie Provost **Grade** 7 **Town** Bozrah

- Dominion Millstone Power Station Physical Sciences Awards --- 1st Place- Physical Sciences 7th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
- People's United Bank Mathematics Awards - with ATOMIC --- 2nd Place Middle School- \$100 from ATOMIC, and Trophy, \$200 from People's United Bank
- Environmental Sciences Awards with CACIWC --- 1st Place MS - \$300, Trophy, CACIWC gifts
- EnergizeCT/eesmarts Sustainable Resources and Practices Awards --- 2nd Place Middle School - \$300 Cash and Trophy
- UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack and Annual Report
- Alexion Biotechnology Awards --- 4th Place- Biotechnology 7th grade- trophy
- ASM Materials Education Foundation --- Certificate & \$50 gift card to Amazon given by CSEF & medallion
- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSF
- Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, air pollution related
- David and Torrey Fenton Awards --- For creative work in the physical sciences- middle school; \$200 cash

Tolland Stonewall Academy Don Peck

5549 P8 Wind Turbine Blade Efficiency Through Extensions and Winglet Modifications

Award 3 **Student(s)** Amelia Peck **Grade** 8 **Town** Tolland

- People's United Bank Mathematics Awards - with ATOMIC --- 3rd Place Middle School - Trophy , \$100 from People's United Bank
- UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering



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Bozrah Fields Memorial School Evelyn Brown

5012 P7 Robotic Rubik's Cube Solver

Award m **Student(s)** Evan Windsor **Grade 7** **Town** Bozrah

- Dominion Millstone Power Station Physical Sciences Awards --- 3rd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS
- People's United Bank Mathematics Awards - with ATOMIC --- Middle School Finalist - Medallion & Arcylic Award
- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- Xerox Computer Science Awards --- Middle School Finalist - Medallion, Acrylic Award
- IEEE, Connecticut Section --- \$250 Honors Award -Junior
- Wilfred A. Müller Award --- \$150 cash award for creative use of mathematics
- Stanley Lessoff Award for Excellence In Analytical Technique --- \$100 Cash and Plaque
- Connecticut Association for the Gifted --- \$50 gift certificate to attend a Minds in Motion Conference

Newtown St. Rose of Lima School Mrs. Dimon

5540 P8 Evaluating the Performance of a Model Solar Updraft Tower Power Plant

Award m **Student(s)** Grace Herrick **Grade 8** **Town** Newtown

- Dominion Millstone Power Station Physical Sciences Awards --- 3rd Place- Physical Sciences 8th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS
- People's United Bank Mathematics Awards - with ATOMIC --- Middle School Finalist - Medallion & Arcylic Award
- Barnes Aerospace Applied Technology Awards --- 1st Place Middle School - \$300 and Trophy, Medallion
- Environmental Sciences Awards with CACIWC --- 3rd Place MS- \$100, Trophy, CACIWC gifts
- EnergizeCT/eesmarts Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
- EnergizeCT/eesmarts Sustainable Resources and Practices Awards --- 3rd Place Middle School - \$200 Cash and Trophy
- Society of Women Engineers - Hartford Section --- Scientific Calculator
- Spirit of Invention Award --- \$100 Cash and Plaque for Inventive Concepts



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High School

Trumbull Christian Heritage School Daniel Cote

6046 PS Research on the general summation formula of any sequence and ancillary results.

Award **1** Student(s) **Xiaofei Yu** Grade 12 Town Shelton

- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- People's United Bank Mathematics Awards - with ATOMIC --- 1st Place High School- \$150 from ATOMIC, Trophy, \$500 from People's United Bank

Glastonbury Glastonbury High School Ms. Diane Pintavalle

6060 PS The Correlation between Psychosocial Disorders and Childhood Psychological Stresses and Neurological Data

Award **2** Student(s) **Kashish Hora** Grade 12 Town Glastonbury

- People's United Bank Mathematics Awards - with ATOMIC --- 2nd Place High School- \$100 from ATOMIC, Trophy, \$300 from People's United Bank

Shelton Shelton High School Mrs. Lucia

6009 PS Automatic Detection and Classification of Alzheimer's Disease From MRI Scans Using Principal Component Analysis and Artificial Neural Networks

Award **3** Student(s) **Rigel Mahmood** Grade 11 Town Shelton

- People's United Bank Mathematics Awards - with ATOMIC --- 3rd Place High School - Trophy, \$200 from People's United Bank
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack and Annual Report
- U.S. Metric Association --- Certificate & \$50 gift card to Amazon given by CSEF
- University of New Haven 11-12th Grade Awards in Engineering & Science --- \$100 for Top 11th or 12th Grade Project in Mathematics

Greens Farms Greens Farms Academy Dr. Mathieu Freeman

6066 PS Digital Image Sharpening through Optimization of Filtering Parameters based on Genetic Algorithms

Award **m** Student(s) **Saurav Acharya** Grade 12 Town Milford

- Dominion Millstone Power Station Physical Sciences Awards --- 4th Place- Physical Sciences Senior High Individual - trophy
- People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion & Acrylic Award
- Xerox Computer Science Awards --- 2nd Place High School - \$300, Trophy, Medallion
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack and Annual Report
- Intel Excellence in Computer Science Award --- \$200 & certificate
- University of New Haven 11-12th Grade Awards in Engineering & Science --- \$100 for Top 11th or 12th Grade Project in Engineering: Electrical and Mechanical
- University of New Haven 11-12th Grade Awards in Engineering & Science --- \$100 for Top 11th or 12th Grade Project in Computer Science



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Greenwich Greenwich High School Bramante

6045 PS Rapid Monte Carlo Testing of the Efficacy of Error-Correcting Codes for Robust Quantum Computing

Award **m** Student(s) **Helen Hansel** Grade 11 Town Old Greenwich

- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion & Acrylic Award
- Xerox Computer Science Awards --- Senior High Finalist - Medallion, Acrylic Award
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack and Annual Report
- Yale Science & Engineering Association, Inc. --- Certificate, Medallion, \$50 gift card to Amazon given by CSEF
- Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Life Sciences

Wallingford Choate Rosemary Hall Phoebe Zarnetske

3086 LS A Theoretical Examination of Changes in Community Structure due to Consumptive and Competitive Species Interactions During Climate Change

Award **m** Student(s) **Emily Baczyk** Grade 12 Town Avon

- Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High- \$300 & trophy, Trip to compete at Intel ISEF
- People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion & Acrylic Award
- Xerox Computer Science Awards --- 1st Place High School - \$400, Trophy, Medallion
- Intel Excellence in Computer Science Award --- \$200 & certificate
- Long Island Sound Foundation, Inc. --- \$500 Life Science/Environmental Science/Physical science
- Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum
- Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a High School student, \$200 cash
- Otero Family Award --- The Otero Family Award; \$200 cash