



Connecticut Science & Engineering Fair

Quinnipiac University

March 11 - 15, 2014

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

EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards

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

Middle School

Windsor Madina Academy Iman AlNaggar

4030 P8 Novel Methods for Water Desalination by Harnessing Solar Energy using a Solar Oven With Flat Mirrors, Fresnel Lens and a Parabolic Mirror

Award 1 **Student(s)** Nader Kasem **Grade** 8 **Town** Glastonbury
 Khaleel Rahman **Grade** 8 **Town** Windsor
 Ayman ElSherbini **Grade** **Town** Windsor

- Dominion Nuclear Connecticut Physical Sciences Awards --- 2nd Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
- Barnes Aerospace Applied Technology Awards --- 3rd Place Middle School - \$100 and Trophy, Medallion
- Environmental Sciences Awards with CACIWC --- 2nd Place MS- \$200, Trophy, CACIWC gifts
- EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
- EnergizeCT/CL&P/eesmarts Sustainable Resources and Practices Awards --- 3rd Place Middle School - \$200 Cash and Trophy
- CSF Board of Directors Award --- certificate and \$50 Amazon gift card given by CSF

New Britain Sacred Heart School Miss Kornas

5529 P8 How long does it take devices to charge when the power goes out?

Award 2 **Student(s)** Kateryna Yurkevych **Grade** 8 **Town** New Britain

- EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- Sister Mary Christine Life Sciences Award --- \$150 and plaque for excellence in the life sciences by a catholic middle school project

Avon Talcott Mountain Academy Mr. Meredith

5507 P8 The Efficiency and Durability of Piezoelectric Generators

Award 3 **Student(s)** Humza Zaidi **Grade** 8 **Town** Avon

- Dominion Nuclear Connecticut Physical Sciences Awards --- 4th Place- Physical Sciences 8th Grade Ind. - trophy, invite to compete Broadcom MASTERS
- EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy
- MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, middle school, \$200 cash award
- Connecticut Invention Convention --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

Branford Connecticut Experiential Learning Center Melinda Alcosser

5566 P8 Magnetic Levitation Automotive Wind Rail

Award m **Student(s)** Luke Atkins **Grade** 8 **Town** Guilford

- EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award
- ISA - International Society for Automation --- 1st - \$125 award



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Forestville St. Matthew School Mrs. MaryEllen Schigas
 5536 P8 Keep the Heat

Award m **Student(s)** Abby Aldieri **Grade 8** **Town** Bristol

- EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award
- ASM Materials Education Foundation --- Certificate & \$50 gift card to Amazon given by CSEF& medallion

Newtown Newtown Middle School Beverly Andracchi
 5537 P8 Burning Calories to Light up the Night

Award m **Student(s)** Cameron MacDonald **Grade 8** **Town** Sandy Hook

- EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award

Windsor St. Gabriel School Margaret Rosa
 5540 P8 Bio vs. Fossil Fuels

Award m **Student(s)** Max Mossberg **Grade 8** **Town** Windsor

- Dominion Nuclear Connecticut Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
- EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award
- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF



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High School

Greenwich Greenwich High School Andrew Bramante

6074 PS Creation of Tidal Power from Infiltrating Coastal Ground Water via a Novel Tidal Barrage System

Award 1 Student(s) Ethan Novek Grade 9 Town Greenwich

- Dominion Nuclear Connecticut Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- Barnes Aerospace Applied Technology Awards --- 1st Place High School - \$500 and Plaque, Medallion
- EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Plaque, Trip to Compete I-SWEEEP, Houston
- 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, Book, and Annual Report
- Connecticut Association of Physics Teachers --- \$100 Senior project
- Long Island Sound Foundation, Inc. --- \$500 Life Science/Environmental Science/Physical science
- Connecticut Invention Convention --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

Washington The Gunnery Steven Bailey

6034 PS Evaluating the Performance of a Model Solar Concentrating System Using Thermoelectric Generating Technology

Award 2 Student(s) Grace Herrick Grade 9 Town Sandy Hook

- Dominion Nuclear Connecticut Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- People's United Bank Mathematics Awards - with ATOMIC --- 3rd Place High School - Plaque, \$200 from People's United Bank
- Barnes Aerospace Applied Technology Awards --- 2nd Place High School - \$300 and Plaque Medallion
- EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards --- 2nd Place High School - \$300 Cash and Plaque, Trip to Compete GENIUS Olympiad, Oswego, NY
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Physical Sciences
- GENIUS Olympiad --- GGENIUS Olympiad Competition for HS student (s) and advisor

Suffield Suffield High School Mitch Charkiewicz

6096 PS New Invention to Efficiently Harness Wave Power

Award 3 Student(s) Matthew Rogers Grade 10 Town Suffield

- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award
- EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards --- 3rd Place High School - \$200 Cash and Plaque
- Education Connection- Center for 21st Century Skills Awards --- \$100 For innovative use of technology to advance science or engineering



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Greens Farms Greens Farms Academy Mathieu Freeman

6049 PS Momentum Powered Magnetic Generator For Electric Car Applications And Free Energy And Perpetual Motion Research

Award m **Student(s)** Arthur Doelp **Grade** 12 **Town** Darien

- EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- University of Connecticut - Physics Department --- UCONN Physics Department - Co-Op \$100 Gift Certificate

Greenwich Brunswick School Dana Montañez

6510 PST Converting Mechanical Energy from Cross-walk Traffic Using Piezoelectricity

Award m **Student(s)** Jamie MacFarlane **Grade** 10 **Town** Greenwich
 Andreas Kern **Grade** 10 **Town** Greenwich

- Dominion Nuclear Connecticut Physical Sciences Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion & Acrylic Award
- EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- EnergizeCT/CL&P/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award

Greenwich Greenwich High School Andrew Bramante

6045 PS Optimizing Hydrogen Production From a Piezo-electrochemical Water-Splitting Mechanism with Low-Cost Synthesis of ZnO and BiFeO3 Nanostructures

Award m **Student(s)** Margaret Cirino **Grade** 9 **Town** Greenwich

- Dominion Nuclear Connecticut Physical Sciences Awards --- 4th Place- Physical Sciences Senior High Individual - Plaque
- EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering

Greenwich Greenwich High School Andrew Bramante

6101 PS A Filamentous Organic Solar Cell Based Piezoelectric Architecture for Powering Commercial and Biological Electronic Devices

Award m **Student(s)** Maxmillian Minichetti **Grade** 11 **Town** Greenwich

- Dominion Nuclear Connecticut Physical Sciences Awards --- 5th Place- Physical Sciences Senior High Individual - Plaque
- EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- EnergizeCT/CL&P/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- 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, Book, and Annual Report
- IEEE, Connecticut Section --- \$250 Honors Award -Senior
- Arthur Mensing Award --- \$1000 cash award for excellence in the physical sciences
- Connecticut Invention Convention --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"



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Redding Southern CT Invitational Sci & Eng Fair Deborah Day

6059 PS Construction of a Renewable Energy Generator from Recycled Materials: A Study on Windbelts

Award m **Student(s)** Noah Gallant **Grade** 11 **Town** Bethany

- EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- U.S. Metric Association --- Certificate & \$50 gift card to Amazon given by CSEF

Windsor Madina Academy Upper School Ibtsam Mahfouz

6521 PST A Novel Wind Turbine Design Incorporating Photovoltaic Cells and Piezoelectric Sensors

Award m **Student(s)** Aasiya Ahmed **Grade** 11 **Town** Windsor
Aden Khan **Grade** 11 **Town** Windsor
Usra Qureshi **Grade** 11 **Town** Windsor

- EnergizeCT/UI/eesmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- University of New Haven 11-12th Grade Awards in Engineering & Science --- \$100 For Top High School Project in Energy & Transportation