



Connecticut Science & Engineering Fair

Quinnipiac University

March 10 - 14, 2015

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

Barnes Aerospace Applied Technology Awards

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

Middle School

Bethany Amity Reg Middle School, Bethany Campus Kevin Berean

4017 PT The Sensing Cane

Award **1** Student(s) **Kate Yuan** Grade 8 Town Woodbridge
Catalina Betancur Grade 8 Town Woodbridge

- Connecticut Science & Engineering Fair Physical Sciences Awards --- 3rd Place- Physical Sciences MS Team-trophy, invite to compete Broadcom MASTERS
- Barnes Aerospace Applied Technology Awards --- 1st Place Middle School - \$300 and Trophy, Medallion
- Xerox Computer Science Awards --- Middle School Finalist - Medallion, Acrylic Award
- American Society of Safety Engineers, CT Valley Chapter --- \$100 grade 7-8 project
- ISA - International Society for Automation --- 2nd - \$75 award

Orange Southern CT Hebrew Academy Karen Howell

5512 P8 Design, build and program a robot using an Arduino Mega 2560 R3 through an Android app to cheer up or relax children at a hospital

Award **2** Student(s) **Ben Bruder** Grade 8 Town New Haven

- Barnes Aerospace Applied Technology Awards --- 2nd Place Middle School - \$200 and Trophy, Medallion
- Xerox Computer Science Awards --- 2nd Place Middle School - \$200, Trophy and Medallion
- UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering

Danbury St. Joseph School Mrs. Reilly

5054 P7 Development of a technique to detect explosive residue for use in avoiding terrorism threats.

Award **3** Student(s) **Bradley Kerr** Grade 7 Town Danbury

- Connecticut Science & Engineering Fair Physical Sciences Awards --- 5th Place- Physical Sciences 7th Grade Individual - trophy
- Barnes Aerospace Applied Technology Awards --- 3rd Place Middle School - \$100 and Trophy, Medallion
- UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering



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Danbury Westside Middle School Academy Jonathan Neuhausel
 5551 P8 UV-C Lighting As A Supplemental Method Of Preservation In Refrigerators To Reduce Energy Consumption
 Award **m** Student(s) **Christopher Hwang** Grade 8 Town Danbury

- Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
- CASE Urban School Challenge Awards with Travelers --- 1st Place Middle School - \$300 and Trophy, Medallion and Project Oceanology's Ocean Camp
- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- Energize CT/eesmarts Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- Connecticut Academy of Science and Engineering Middle School Urban School Challenge Award --- Urban School Challenge 1st MS- \$250 Cash Award, Invite to attend CASE's Annual Mtg & \$500 to School Science Department for Equipment/Supplies
- Alexion Biotechnology Awards --- 5th Place- Biotechnology 8th grade- trophy
- Ricoh Corporation/Society for Science & the Public --- Certificate, Lapel Pin,\$50 gift card to Amazon given by CSEF

Greenwich Central Middle School Ms. Bresler
 5514 P8 Substitution of Metals in a Salt-Water Engine to Increase Energy-Efficiency
 Award **m** Student(s) **Bennett Hawley** Grade 8 Town Cos Cob

- Connecticut Science & Engineering Fair Physical Sciences Awards --- 5th Place- Physical Sciences 8th Grade Ind. - trophy, invite to compete Broadcom MASTERS
- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- Energize CT/eesmarts Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award
- Energize CT/eesmarts Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF
- Constellation - An Excelon Company --- For Excellence in clean renewable / sustainable energy - Grades 7 & 8
- IEEE, Connecticut Section --- \$100 Honorable Mention
- MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, middle school, \$100 cash award
- American Society for Metals - Hartford Chapter --- \$50 Check

New Haven Engineering & Science University Magnet School Roger Rushworth
 2535 L8 Optimizing Methane Oxidation by Methanotrophs Through the Engineering Application of Different Environments
 Award **m** Student(s) **Jacob Feuerstein** Grade 8 Town Woodbridge

- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award Souvenir
- Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related



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Trumbull Christian Heritage School Mrs. Oshin
 5513 P8 HOW TO INSULATE YOUR HOUSE AND REDUCE YOUR FUEL BILLS
Award m **Student(s)** Garrett Kalker **Grade** 8 **Town** Monroe

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

Oxford Oxford High School Mrs. Scheuer

| | | |
|------|----|---|
| 6030 | PS | Electrically Independent, Low Cost, Self-Filling Water Bottle for use in Water Locked Regions |
|------|----|---|

Award 1 **Student(s)** Zachary Frew **Grade** 12 **Town** Oxford

- Connecticut Science & Engineering Fair 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
- United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- Stockholm Junior Water Prize --- Certificate, \$50 gift card to Amazon given by CSEF, possible advance to further competition
- Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

Greenwich Greenwich High School Andrew Bramante

| | | |
|------|----|---|
| 6087 | PS | Application of Manganese-Based Ionic Liquid for Optimized Performance of Non-aqueous / Aqueous Redox Flow Batteries |
|------|----|---|

Award 2 **Student(s)** Nicholas Szabo **Grade** 11 **Town** Glenville

- Connecticut Science & Engineering Fair Physical Sciences Awards --- 3rd Place- Physical Sciences Senior High Individual - \$200 & Plaque
- Barnes Aerospace Applied Technology Awards --- 2nd Place High School - \$300 and Plaque Medallion
- UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate

Putnam Putnam Science Academy Serdar Haytiyev

| | | |
|------|-----|--|
| 6503 | PST | Designing a High Efficiency and Low Cost Wind Turbines bu Utilizing Organic Solar Panels made from Rosa Canina |
|------|-----|--|

Award 3 **Student(s)** Cagri Aytekin **Grade** 12 **Town** Putnam
Furkan Sahin **Grade** 10 **Town** Putnam
Furkan Aldemir **Grade** 11 **Town** Putnam

- Connecticut Science & Engineering Fair Physical Sciences Awards --- 1st Place- Physical Sciences Senior High Team- \$500 (split) & Plaque
- Barnes Aerospace Applied Technology Awards --- 3rd Place High School - \$ 200 and Plaque, Medallion
- Energize CT/eesmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- Constellation - An Excelon Company --- For Excellence in clean renewable / sustainable energy - Grades 9 - 12
- American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate



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Greenwich Brunswick School Dana Montanez
 6511 PST A Feasibility Study of Portable, Ground-Based Ice-Penetrating Radar to Resolve Cartography Deficiencies.
 Award m Student(s) Ryan Callaghan Grade 11 Town Wilton
 Alessandro Mariani Grade 11 Town Greenwich

- Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion & Acrylic Award
- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award
- IEEE, Connecticut Section --- \$250 Honors Award -Junior

Greenwich Brunswick School Mrs. Montanez
 3091 LS An Investigation of Drone Downdraft as a Viable Alternative for Insect Pollination of Essential Crops
 Award m Student(s) Andreas Kern Grade 11 Town Greenwich

- Pfizer Life Sciences Awards --- 5th Place- Life Sciences Senior High- Plaque
- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award

Putnam Putnam Science Academy Serdar Haytiyev
 6071 PS Designing a Braille E-Book For the Visually Impaired and Blind People
 Award m Student(s) Abdulkadir Yilmaz Grade 11 Town Putnam

- Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award
- Xerox Computer Science Awards --- 3rd Place High School- \$200, Plaque, Medallion
- Connecticut Association for the Gifted --- Leonardo Davinci 9-12 Grade \$50 Gift Certificate
- ISA - International Society for Automation --- 3rd - \$50 award
- Leask/Francoeur Family Awards --- Award for excellence and innovation in electrical engineering or computer science - \$200 cash
- Education Connection- Center for 21st Century Skills Awards --- \$100 For innovative use of technology to advance science or engineering
- Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

Suffield Suffield High School Mr. Mitchell Charkiewicz
 6075 PS Energy Transfer Using Laser Power Beaming
 Award m Student(s) Joseph Howarth Grade 11 Town Suffield

- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award
- Energize CT/eesmarts Alternative/Renewable Energy Awards --- 2nd Place High School - \$300 Cash and Plaque, Trip to Compete GENIUS Olympiad, Oswego, NY
- Coherent, Inc. Richard Hart Award for Excellence in Photonics --- \$300 cash, plaque, invitation to lunch and tour Coherent factory



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Suffield Suffield High School Mitchell Charkiewicz

6081 PS Reverse Osmosis Water Desalination Via the Harnessing of Perpetual Wave Energy

Award m **Student(s)** Matthew Rogers **Grade** 11 **Town** Suffield

- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award
- Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- Stockholm Junior Water Prize --- Certificate, \$50 gift card to Amazon given by CSEF, possible advance to further competition
- Wisner Award --- \$250 cash and plaque
- University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Sustainability
- John S. Kendall Memorial Award --- \$500 John S. Kendall Award for Excellence In Mechanical Engineering - High School
- U.S. Coast Guard Research and Development Center --- Summer internship to conduct research aboard ship or at a USCG base + \$50 Amazon Gift Card given by CSEF. ALTERNATE 1

Woodbridge Amity Regional High School Deborah Day

6084 PS Determination of Illicit Drug Residues on Currency Using LC-MS/MS

Award m **Student(s)** Victoria Liu **Grade** 12 **Town** Bethany

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