



Connecticut Science Fair Quinnipiac University March 15 - 19, 2011

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

Final Judging Results

Goodrich Engineering Excellence Award

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

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

Middle School

Newtown	St. Rose of Lima School	Marde Dimon	2514	L8	Improved Process for Bioremediation of Oil Contaminated Seawater	Award	1	Student(s)	Haley M. Ryan	Grade	8	Town	Newtown
Newtown	St. Rose of Lima School	Marde Dimon	5020	P7	Truss-t In Your Bridge	Award	2	Student(s)	Dominic C. Pagliaro	Grade	7	Town	Sandy Hook
Danbury	Broadview Middle School	D. Rovnak	4014	PT	Earthquake	Award	3	Student(s)	Evan L. Coco Tyler Amaral	Grade	8	Town	Danbury
Bozrah	Fields Memorial School	Mrs. Brown	5016	P7	Baseball Bat Comparison	Award	m	Student(s)	Coogan E. Pellerin	Grade	7	Town	Bozrah
Bozrah	Fields Memorial School	Mrs. Brown	5008	P7	Rocket Science	Award	m	Student(s)	Jack A. Santo	Grade	7	Town	Bozrah
Danbury	St. Peter/Sacred Heart School	Mr. Greg Capone	5034	P7	A-MAZE-ing Robots: Data structures, Algorithms, and Modern Robotics	Award	m	Student(s)	Gabriel A. Correa	Grade	7	Town	Danbury
Greenwich/Riverside	Eastern Middle School	Brian Carstens	5009	P7	A Cost-Effective, Eco-Friendly Weather Monitoring UAV.	Award	m	Student(s)	Paul J. Hansel	Grade	7	Town	Old Greenwich
Hebron	Oei Homeschool	Ellen McHugh	5030	P7	Prototype Design of an Electricity Generating Shoe Utilizing a Pumped Air Turbine.	Award	m	Student(s)	Maura C. Oei	Grade	7	Town	Hebron
Norwalk	Ponus Ridge School	Joe Buellesbach	5514	P8	A New Angle on Green Energy	Award	m	Student(s)	Elle Buellesbach	Grade	8	Town	Norwalk
Norwalk	The Montessori Middle School	David Lavallee	5554	P8	Airlift Water Pumping	Award	m	Student(s)	Eric Smith	Grade	8	Town	Norwalk
West Hartford	St. Timothy Middle School	Mrs. Christine Simao-Breen	5538	P8	Aerodynamics: A Study in the Improvement of Auto Body Aerodynamic Efficiency	Award	m	Student(s)	Sean Oleasz	Grade	8	Town	West Simsbury



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Windsor Madina Academy Aisha Seyal
 5041 PS A novel water filtration and disinfection system designed using a salad spinner, dynamo and high intensity light emitting diodes (LED) for use in developing countries.
Award m **Student(s)** Sithy A. Mahamoon **Grade** 7 **Town** Windsor

High School

Manchester East Catholic High School Ms. Holly Noble
 6050 PS Development of a Composite Clay Polymer Sponge for Remediation of Oil Contaminated Water.
Award 1 **Student(s)** Theresa A. Oei **Grade** 12 **Town** Hebron

Manchester East Catholic High School Ms. Noble
 6072 PS Applying the Principles of the Tesla Engine to Design and Construct a Prototype of a Bladeless Wind Turbine
Award 2 **Student(s)** Bridget M. Oei **Grade** 9 **Town** Hebron

Greenwich Greenwich High School Andrew Bramante
 6040 PS Electrified Nanoscale Architecture in Mixed Matrix Membranes as a Means of Rapid Throughput Water Sterilization
Award 3 **Student(s)** Will B. Hallisey **Grade** 11 **Town** Greenwich

Fairfield Fairfield College Preparatory School Mrs. O'Reilly
 6093 PS Autonomous Kite Wind Generator to Capture Troposphere Winds
Award m **Student(s)** Kyle T. Ryan **Grade** 10 **Town** Trumbull

Greenwich Greenwich High School Andrew Bramante
 6071 PS Improved Spectral Response of Dye Sensitized Solar Cells through Red-Shift Fluorescence Resonance Energy Transfer (FRET)
Award m **Student(s)** Thomas C. Newberry **Grade** 11 **Town** Riverside

Greenwich Greenwich High School Mr. Andrew Bramante
 6054 PS Visible Illumination of Ferroelectric BiFeO3 Thin Films to Produce a Polarization-Dependent Bulk Photovoltaic Effect
Award m **Student(s)** James P. O'Sullivan **Grade** 11 **Town** Old Greenwich

Norwich Norwich Free Academy Mr. Robert V Johnson
 6029 PS Impact of Turbine Design on Renewable Energy Storage System Efficiency
Award m **Student(s)** Ian D. Dakers **Grade** 11 **Town** Bozrah

Oxford Oxford High School Mrs. Doherty
 6022 PS A Kinesiology approach to evaluate the biomechanics of the typical long distance runner's gait and its relation to repetitive stress injury
Award m **Student(s)** Skyler A. Werner **Grade** 11 **Town** Oxford

Shelton Shelton High School Ausif Mahmood
 6001 PS Renewable Energy For Mobile Devices
Award m **Student(s)** Rigel Mahmood **Grade** 9 **Town** Shelton

Wallingford Choate Rosemary Hall Lawrence Stowe
 3066 LS Biodegradation of Polylactide Nanoweb Electrospun for Freshwater Harmful Algal Bloom Removal
Award m **Student(s)** Joshua S. Kim **Grade** 11 **Town** Wallingford



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Westport Staples High School Dr. Nick Morgan

6074 PS Modeling an Optimal Receiver for a Binary Quantum Channel Using Information Theory

Award m **Student(s)** Yuri D. Lenskiy

Grade 12 **Town** Westport