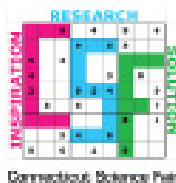




**Connecticut
Science & Engineering
Fair** www.ctsciencefair.org



65 And Better Than Ever!



2013 Final Report

Quinnipiac University, Hamden, CT

Connecticut Science Fair Association
All-volunteer Connecticut non-profit organization
Affiliate of the Intel International Science and Engineering Fair

65th

Connecticut

Science & Engineering Fair

Quinnipiac University
Hamden

March 12 - 16, 2013

Connecticut Science Fair Association, Inc
Cromwell, Connecticut

Publication of the Connecticut Science Fair Association, Inc.

April 2013

65th Connecticut Science & Engineering Fair

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WEB SITES

CSF	http://www.ctsciencefair.org
ISEF	http://www.societyforscience.org/isef
I-SWEEEP	http://www.isweep.org
GENIUS Olympiad	http://www.geniusolympiad.org

AWARDS

FORMAT KEY					
Project No.	Category	Title	Teacher	Regional/City Fair	Town
	SchTown	School	Grade		
	Student	Hometown			
	Awards	Honors			
		Sponsor	Sponsor Award		

Life Sciences

- 1001 LT Color or Plain, It's just not the same
 Plantsville, John F. Kennedy Middle School, Teacher - Nancy Wasserman
 Gabrielle Veilleux, Southington 8 Morgan Maccione Southington 8
 Awards: Honors = 1
 • Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion & Acrylic Award
- 1002 LT What sounds are dogs (poodles) attracted to?
 New Canaan, St. Aloysius School, Teacher - Dr. Fogel
 Sydney Borsellino, Stamford 7 Madison Borsellino Stamford 7
 Awards: Honors = 2
- 1003 LT Does eating chocolate make people happy?
 Stamford, Bi-Cultural Day School, Teacher - Mr. Graseck
 Liam Bodurtha, Stamford 7 Matthew Zweibel Stamford 7
 Awards: Honors = 2
- 1004 LT Little Light Lot of Life
 Danbury, St. Gregory the Great School, Teacher - Mrs. Josephine Ferry
 Jake McNamara, Danbury 7 James Fahey Danbury 7
 Awards: Honors = 2
- 1005 LT The Effect of Distractions on Drivers and How this Effects Their Reaction Time.
 Guilford, E. C. Adams Middle School, Teacher - Mrs. Whiteman
 Luke McNamara, Guilford 8 Finn Davidson Guilford 8 Jack Curran Guilford 8
 Awards: Honors = 3
- 1006 LT The Affects of Natural Sorbents on Petroleum
 Plantsville, John F. Kennedy Middle School, Teacher - Mrs. Nancy Wasserman
 Kimberly Stafko, Southington 8 Alexa Maddalena Southington 8
 Awards: Honors = 1
 • Pfizer Life Sciences Awards --- 2nd Place- Life Sciences MS Team- \$100 each & trophy and Invite Compete Broadcom MASTERS
 • National Oceanic and Atmospheric Administration --- Certificate, medallion, and \$50 gift card to Amazon given by CSEF
 • TurnKey Compliance Solutions Environmental Awards --- \$100 Cash Award Middle School- For excellence in environmental sciences
- 1007 LT Does Smoking Affect Lung Capacity?
 Bridgeport, Park City Prep Charter School, Teacher - Tiffany Johnson
 Pallavi Kapoor, Bridgeport 8 Chelsea Ortiz Naugatuck 8
 Awards: Honors = 3
- 1008 LT The Effect of Distractions on 12-14 Year old Females
 Newtown, Newtown Middle School, Teacher - Ms. Andracchi
 Riley Smith, Newtown 8 Monique Dubois Sandy Hook 8
 Awards: Honors = 2
- 1010 LT Evaporation vs. Filtration
 Danbury, St. Gregory the Great School, Teacher - Josephine Ferry
 Kevin McCoy, Danbury 7 Dominick Curra Danbury 7
 Awards: Honors = 2

AWARDS

- 1011 LT What is the most favorable environment to preserve perishable food?
Fairfield, Roger Ludlowe Middle School, Teacher - Ileana Scerbo
Colin O'Hare, Fairfield 7 Mark Thomas Fairfield 7 James Lott Fairfield
Awards: Honors = 3
- 1012 LT Is the earth getting hotter? Investigating the Greenhouse Effect.
Danbury, St. Joseph School, Teacher - Miss Iapaluccio
Julia Farkas, Danbury 8 Ashley Sfaelos Danbury 8
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion & Acrylic Award
- 1013 LT The Effect of Certain Physical Activities on Blood Pressure of 13-year-old Females
Newtown, Newtown Middle School, Teacher - Ms. Beverly Andracchi
Simran Chand, Newtown 8 Kendra Dunnigan Newtown 8
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion & Acrylic Award
- 1014 LT Zap That Zit
Danbury, St. Gregory the Great School, Teacher - Mrs. Josephine Ferry
Laura Mezzetta, Danbury 8 Nicole DiMauro Danbury 8
Awards: Honors = 2
• Connecticut Science Supervisors Association --- \$125 for a middle school project
- 1015 LT Salty Shrimp
Bridgeport, Park City Prep Charter School, Teacher - Tiffany D. Johnson
Briana Bretoux, Bridgeport 8 Ingrid Chin Bridgeport 8
Awards: Honors = 3
- 1016 LT Degrading DNA
New Haven, Worthington Hooker Middle School, Teacher - Mr. Jones
Noah Powell, New Haven 7 Di Lu New Haven 7
Awards: Honors = 2
• Urban School Challenge Awards with support from CASE --- Middle School Finalist - Medallion and acrylic award
• Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & trophy
- 1017 LT Are You Wearing Makeup or Bacteria?
Danbury, St. Gregory the Great School, Teacher - Mrs. Ferry
Jade Hinds, Danbury 7 Kendra Dascano Danbury 7
Awards: Honors = 2
- 1018 LT The Affect of the Senses on the Short-Term Memory Ages 12-14
Fairfield, Tomlinson Middle School, Teacher - Ms.Lusardi
Julia Lawlor, Southport 8 Allora Sengupta Fairfield 8
Awards: Honors = 3
• American Psychological Association --- Certificate, \$50 gift card to Amazon given by CSEF
- 1019 LT Collectin' D.N.A
Bridgeport, Cesar A. Batalla School, Teacher - Adam Bell
Kelsie Santiago, Bridgeport 8 Ely-Anna Becerril Bridgeport 8
Awards: Honors = 3
- 1020 LT Analysis of Arsenic in Food from Natural Produce, Effect on Cell Bioavailability, and Effect of Chelators on Absorption.
Orange, Southern Connecticut Hebrew Academy, Teacher - Mrs. Karen Howell
Batsheva Lipsker, Stamford 8 Devora Hodakov New Haven 8
Awards: Honors = 1
• Pfizer Life Sciences Awards --- 1st Place- Life Sciences MS Team- \$100 each & trophy and Invite to Compete Broadcom MASTERS
• Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWCgifts, CSF Medallion, Acrylic award
• Alexion Biotechnology Awards --- 4th Place- Biotechnology 8th grade- trophy and Invitation Compete in Broadcom MASTERS
• U.S. Air Force --- Certificate, sport bag, speaker, organizer

- 1021 LT Are papaya seeds an effective fertilizer?
Windsor, Madina Academy Middle School, Teacher - Iman Al-Naggar
Nuha Ashraf, Windsor 7 Arooba Peracha Tolland 8
Awards: Honors = 1
• Pfizer Life Sciences Awards --- 3rd Place- Life Sciences MS Team- trophy and Invite to Compete Broadcom MASTERS
- 2001 L7 How Does The Color of The Light Affect The Growth of Peas?
East Haven, East Haven Academy, Teacher - Jan Staires Kevin Romero, East Haven 7
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion & Acrylic Award
- 2002 L7 Does the content of an article affect the reader's heart rate?
West Hartford, Solomon Schechter Day School, Teacher - Susan Pirhar
Rebecca Gold, West Hartford 7
Awards: Honors = 2
• U.S. Department of Health & Human Services --- Certificate & \$50 Amazon gift card given by CSEF & medallion
- 2003 L7 Walking on Egg Shells
Wilton, Middlebrook School, Teacher - Mrs. P Randall
Patrick Louzan, Wilton 7
Awards: Honors = 2
- 2004 L7 Coli Forms in Your Drinking Water
Bethel, St. Mary School, Teacher - Karen Conover
Lauren Garvey, Bethel 7
Awards: Honors = 3
- 2005 L7 Acid Rain And Its Affects on Aquatic Algae.
Bridgeport, Park City Prep Charter School, Teacher - Vicky Boudreau
Cherish Johnson, Bridgeport 7
Awards: Honors = 2
• Urban School Challenge Awards with support from CASE --- Middle School Finalist - Medallion and acrylic award
- 2006 L7 Germ Catcher
Bethel, St. Mary School, Teacher - Karen Conover
Hannah Folan, Bethel 7
Awards: Honors = 3
• Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion & Acrylic Award
- 2007 L7 What is the relationship between dissolved oxygen and coliform in the Pequonnock River?
Bridgeport, Six to Six Magnet School, Teacher - Mrs. Andrews
Hyojune Jung, Bridgeport 7
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion & Acrylic Award
• Southeastern New England Marine Educators --- \$75 award and membership in SENEME - 1st Place Junior & T-Shirt
- 2008 L7 "Gross"eries
Bethel, St. Mary School, Teacher - Mrs. Conover
Isabella Iazzetta, Bethel 7
Awards: Honors = 3
- 2009 L7 Static Electricity
Fairfield, Tomlinson Middle School, Teacher - Mrs.Lusardi
Shimul Banik, Fairfield 7
Awards: Honors = 3
- 2010 L7 Pain Relieving Faster?!
East Haven, East Haven Academy, Teacher - Jan Staires
Kylie Schlottman, East Haven 7
Awards: Honors = 2

AWARDS

- 2011 L7 Taste Buds: Are You A Super taster
Stratford, St. Mark School, Teacher - Mr. Flynn
Emily Bump, Stratford 7
Awards: Honors = 2
- 2012 L7 Is audio or visual information better remembered?
Brewster, H. H. Wells Middle School, Teacher - Mr. Forte
Sarah Comer, Brewster 7
Awards: Honors = 2
- American Psychological Association --- Certificate, \$50 gift card to Amazon given by CSEF
 - Connecticut Academy of Audiology --- \$150 Cash Award Middle School- For Excellence in Audiology and Acoustics
- 2013 L7 Mr. Bouba & Mrs. Ki ki
New Canaan, St. Aloysius School, Teacher - Dr. Fogel
Helen Cheever, Norwalk 7
Awards: Honors = 3
- 2014 L7 Using Bioluminescent Diatoms To Help Detect Water Contamination.
Bridgeport, Park City Prep Charter School, Teacher - Vicky Boudreau
Jennifer Adorno, Bridgeport 7
Awards: Honors = 1
- Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion & Acrylic Award
- 2015 L7 Roundup And It's Effect On Microorganisms
Avon, Talcott Mountain Academy, Teacher - Mr. Tom Noonan
Andrew Ouellette, Burlington 7
Awards: Honors = 3
- 2016 L7 Too Hot To Handle
East Granby, East Granby Middle School, Teacher - Mr. Langan
Kylie Geer, East Granby 7
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 4th Place- Life Sciences 7th grade- trophy and Invite to Compete Broadcom MASTERS
 - J. A. Augustine Award --- \$100 for excellence in biology
- 2017 L7 The effects of physical activity on anxiety and short term memory in rats.
Bridgeport, Interdistrict Discovery Magnet School, Teacher - Lucas Fatsy
Ava Fabian, Bridgeport 7
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
 - Urban School Challenge Awards with support from CASE --- 2nd Place Middle School - \$200 and Trophy, Medallion
 - Alexion Biotechnology Awards --- 2nd Place- Biotechnology 7th grade- \$200 & trophy
 - U.S. Department of Health & Human Services --- Certificate & \$50 Amazon gift card given by CSEF & medallion
- 2018 L7 Fluoride Free Water?
New Haven, Worthington Hooker Middle School, Teacher - Mr. Jones
Maya Geradi, New Haven 7
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 1st Place- Life Sciences 7th grade- \$200 & trophy and Invitation to Compete Broadcom MASTERS
 - Urban School Challenge Awards with support from CASE --- 1st Place Middle School - \$300 and Trophy, Medallion and Project Oceanology's Ocean Camp
 - Talcott Mountain Science Center --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Life Science
- 2019 L7 Sponge Absorbency
Danbury, St. Joseph School, Teacher - Miss Ipaluccio
Cassandra Varian, Danbury 7
Awards: Honors = 3

- 2020 L7 Can bioluminescent phytoplankton be an early warning alarm for rising ocean temperatures?
 Bridgeport, Park City Prep Charter School, Teacher - Vicky Boudreau
 Victoria Williams, Bridgeport 7
 Awards: Honors = 2
- 2021 L7 Go Green by Growing Green
 Bridgeport, High Horizons Magnet School, Teacher - Mrs. Scott-Thiam
 Rahnumar Rahma, Bridgeport 7
 Awards: Honors = 1
- Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
 - Urban School Challenge Awards with support from CASE --- Middle School Finalist - Medallion and acrylic award
 - Alexion Biotechnology Awards --- Finalist - Biotechnology 7th grade - CSF Medallion & Acrylic Award
- 2022 L7 Tsunami
 Danbury, St. Joseph School, Teacher - Miss. Iapaluccio
 Amanda Attina, Danbury 7
 Awards: Honors = 3
- 2023 L7 Composting Banana Peels
 New Haven, Betsy Ross Arts Magnet School, Teacher - Mrs. Cichus
 Gabrielle Christofor, Wallingford 7
 Awards: Honors = 3
- Urban School Challenge Awards with support from CASE --- Middle School Finalist - Medallion and acrylic award
 - Ricoh Corporation/Society for Science & the Public --- Certificate, Lapel Pin,\$50 gift card to Amazon given by CSEF
- 2024 L7 The Investigations of Catalase Enzymes
 Bethel, Bethel Middle School, Teacher - Mr. Maxwell
 Purna Dalal, Bethel 7
 Awards: Honors = 2
- Alexion Biotechnology Awards --- Finalist - Biotechnology 7th grade - CSF Medallion & Acrylic Award
- 2025 L7 Lentils under water
 Wilton, Middlebrook School, Teacher - Bob Hoch
 Nora Hoch, Wilton 7
 Awards: Honors = 3
- 2026 L7 The Science Of Tempering Chocolate
 Bridgeport, Interdistrict Discovery Magnet School, Teacher - Luke Fatsy
 Lohana Andrade, Shelton 7
 Awards: Honors = 2
- Urban School Challenge Awards with support from CASE --- 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 CSF
- 2027 L7 Growing Plants In A Biosphere Mars.
 Bridgeport, Park City Prep Charter School, Teacher - Vicky Boudreau
 Romario Johnson, Bridgeport 7
 Awards: Honors = 3
- 2029 L7 Strength of Perfume
 New Haven, Betsy Ross Arts Magnet School, Teacher - Ms. Cichus
 Jordan Groves, Naugatuck 7
 Awards: Honors = 3
- 2030 L7 Effect of Age on Optical Illusion Recognition
 Guilford, E. C. Adams Middle School, Teacher - Mrs. Hayash
 Faren Roth, Guilford 7
 Awards: Honors = 2

AWARDS

- 2031 L7 What is the Effect of Organic Fertilizer in Improving Plant Growth?
Danbury, St. Joseph School, Teacher - Miss Iappaluccio
Alexandra Peters, Monroe 7
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 5rd Place- Life Sciences 7th grade- trophy
 - Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion & Acrylic Award
- 2032 L7 Effect Caffeine and Alcohol on Daphnia Heart Rate
Brewster, H. H. Wells Middle School, Teacher - Mr. Forte
Asa Wong, Brewster 7
Awards: Honors = 2
- Alexion Biotechnology Awards --- 1st Place- Biotechnology 7th grade- \$300 & trophy
- 2501 L8 Natural Alternative To Household Pesticides
Greenwich, Central Middle School, Teacher - Mrs. Bresler
Alexandra Aiello, Greenwich 8
Awards: Honors = 3
- 2502 L8 Which French Fry Lasts the Longest?
West Hartford, Solomon Schechter Day School, Teacher - Susan Prihar
Daniel Brocke, West Hartford 8
Awards: Honors = 3
- 2503 L8 Quantitative Analysis of Nitrate and Phosphate “Runoff” Pollution on Long Island Sound, Marine Life, and Hypoxia
Orange, Southern Connecticut Hebrew Academy, Teacher - Mrs. Howell
Ruben Melka, New Haven 8
Awards: Honors = 2
- Project Oceanology --- Individual - Book + 2 tickets, First Place Junior, check for \$100, t-shirt
 - Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash
- 2504 L8 An investigation into the use of pyrocystis fusiformis as an early indicator of acidic pollution.
Bridgeport, Six to Six Magnet School, Teacher - Carmen Andrews
Jonathan Siveyer, Monroe 8
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 4th Place- Life Sciences 8th grade- trophy and Invite to Compete Broadcom MASTERS
 - Urban School Challenge Awards with support from CASE --- 3rd Place Middle School - \$100 and Trophy, Medallion
 - Quinnipiac University Scholarships --- \$20,000, 4 year scholarship to Quinnipiac University for Middle School Student
 - Alexion Biotechnology Awards --- 2nd Place- Biotechnology 8th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS
 - Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related
 - Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash
- 2506 L8 A Comparison of the Effect of Treated and Untreated Well Water on the Growth of Grass
Newtown, St. Rose of Lima School, Teacher - Mrs. Dimon
Lauren Cirone, Newtown 8
Awards: Honors = 2
- 2507 L8 The Effect of pH levels on plant growth
Fairfield, Tomlinson Middle School, Teacher - Mrs. Lusardi
Asma Rahimyar, Fairfield 8
Awards: Honors = 3
- 2508 L8 Strain put on the Patellar Tendon
Hartford, Classical Magnet School, Teacher - Ms. Abo
Holly Weldon, South Windham 8
Awards: Honors = 3
- Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School, Physical Sciences
 - Bob Harris Fix It Award --- \$100 and Certificate for ingenuity in using material and tools

- 2509 L8 Feeding Worms
West Hartford, Solomon Schechter Day School, Teacher - Susan Prihar
Rachel Fiedler, Newington 8
Awards: Honors = 3
- 2510 L8 Are Energy Drinks Worth The Risk?
Milford, St. Gabriel School, Teacher - John Campbell
Paul Leparik, Milford 8
Awards: Honors = 3
- 2511 L8 “Wood” it burn well?
New Haven, St. Aedan-St. Brendan School, Teacher - Mr. Celentano
Sadaf Khokhar, Hamden 8
Awards: Honors = 3
- 2512 L8 Harvesting Fog
Hartford, SS. Cyril and Methodius School, Teacher - Alice Powell
Joel Tavarez, Hartford 8
Awards: Honors = 3
- 2513 L8 The Effects of OTC Pain Killers on Gastric Health and the Development of Ulcers
Greens Farms, Greens Farms Academy, Teacher - Sara Campolettano
Claudia Bernstein, Westport 8
Awards: Honors = 1
 - Pfizer Life Sciences Awards --- 1st Place- Life Sciences 8th grade- \$300 & trophy and Invite to Compete Broadcom MASTERS
 - Connecticut Science Teachers Association’s Marty Tafel Student Research Award --- Life Science 8th Grade - \$500 and invite to CSTA Award Banquet
- 2515 L8 Solar power applied to energy output
Glastonbury, Smith Middle School, Teacher - Ms. Petritus
Ninad Vora, Glastonbury 8
Awards: Honors = 2
- 2516 L8 Food Calories
Southington, Depaolo Middle School, Teacher - Mrs. Shea
Liam Guthrie, Southington 8
Awards: Honors = 2
- 2517 L8 Intrageneric Competition Between Bioluminescent Dinoflagellates
Avon, Talcott Mountain Academy, Teacher - Thomas Noonan
Abigail Marmer-Adams, Colebrook 8
Awards: Honors = 1
 - Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion & Acrylic Award
 - Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSF
- 2518 L8 The Phytoremediation Efficacy of Elodea Canadensis, Lemna Minor, and Brassica Juncea in Copper Sulfate Contaminated Water
Stratford, St. Mark School, Teacher - Mr. Flynn
Megan Robertson, Stratford 8
Awards: Honors = 1
 - Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 8th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
 - Environmental Sciences Awards with CACIWC --- 2nd Place MS- \$200, Trophy, CACIWC gifts
 - Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash
- 2519 L8 The Amount Of Time Exposed to Non-Ionizing Radiation Versus The Effect On Seed Germination And Plant Growth For French Breakfast Radishes
Kensington, St. Paul School, Teacher - Miss Wytas
Elizabeth Lopreiato, New Britain 8
Awards: Honors = 2
 - Alexion Biotechnology Awards --- 5th Place- Biotechnology 8th grade- trophy

AWARDS

- 2520 L8 The effect of oil spills on sea plants
East Haven, East Haven Academy, Teacher - Jan Staires
Catherine Valloso, East Haven 8
Awards: Honors = 2
- Sister Mary Christine Life Sciences Award --- \$100 and plaque for excellence in the life sciences by a middle school project
 - The Maritime Aquarium Environmental Stewardship Award --- 1 year Family Membership, Family iMax, Family Cruise
- 2521 L8 The Colors of Ozone
Bethel, St. Mary School, Teacher - Mrs. Karen Conover
Isabel Kent, Bethel 8
Awards: Honors = 3
- 2522 L8 Roots and Gravity
Bridgeport, Cesar A. Batalla School, Teacher - Adam Bell
Dayna Robinson, Bridgeport 8
Awards: Honors = 3
- 2523 L8 Does the Color of a Light Effect Plant Growth?
Newington, St. Mary School, Teacher - Mrs. Giantoino
Holly Babineau, Wethersfield 8
Awards: Honors = 3
- 2524 L8 Coliform Bacteria: Detect & Destroy 2
Danbury, St. Gregory the Great School, Teacher - Josephine Ferry
Peter Chavez, Danbury 8
Awards: Honors = 3
- Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award
- 2525 L8 The Antioxidant Mystery
Hartford, Hartford Magnet Trinity College Academy, Teacher - Ms Parmelee
Tessa Cyr, East Hartford 8
Awards: Honors = 2
- Urban School Challenge Awards with support from CASE --- Middle School Finalist - Medallion and acrylic award
 - Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner
 - J. A. Augustine Award --- \$100 for excellence in chemistry
- 2526 L8 Fertilizer: Phenomenal or Fatal
East Granby, East Granby Middle School, Teacher - Mr. Paskiewicz
Jonathan Kelly, East Granby 8
Awards: Honors = 2
- 2527 L8 The Effect of Chlorine on Extractable DNA
Stratford, St. Mark School, Teacher - Mr. Philip Flynn
Alexandra Sciallo, Stratford 8
Awards: Honors = 1
- Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion & Acrylic Award
- 2528 L8 Plants Are Sensitive Too
New Haven, Betsy Ross Arts Magnet School, Teacher - Mrs. Laggis
Jann Gonzales, New Haven 8
Awards: Honors = 3
- 2529 L8 Salinity Study Before and After a Salt Marsh Restoration
Madison, Our Lady of Mercy School, Teacher - Sr. Carol Sansone
Elaine Lynders, Guilford 8
Awards: Honors = 2
- Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award
 - American Meteorological Society --- Certificate & \$50 Amazon gift card given by CSEF
- 2530 L8 What is the level of phosphates in our local bodies of water?
Bethel, St. Mary School, Teacher - Karen Conover
Rosanna Lifrieri, Bethel 8
Awards: Honors = 3

- 2531 L8 A Comparative Study of the Effects of Organic and Chemical Fertilizers on *Lumbricus terrestris*
Fairfield, Our Lady of the Assumption School, Teacher - Kathy Almeida
Veronica Bennet, Fairfield 8
Awards: Honors = 2
- 2532 L8 Analysis of Allelopathic Effect of Grasses on Common Weeds
Orange, Southern Connecticut Hebrew Academy, Teacher - Mrs. Karen Howell
Yehudah Russell, New Haven 8
Awards: Honors = 1
• Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 8th grade- \$200 & trophy and Invite to Compete Broadcom MASTERS
- 2533 L8 The best ways to Study
Hartford, Classical Magnet School, Teacher - Miss Abo
Joshua Cadwallader, East Hartford 8
Awards: Honors = 3
- 2534 L8 The Effect of Iron on the Growth of Dinoflagellates In Estuarine Water
Newtown, St. Rose of Lima School, Teacher - Mrs. Dimon
Maria Ringes, Sandy Hook 8
Awards: Honors = 2
• Long Island Sound Foundation, Inc. --- \$500 Life Science/Environmental Science/Physical science
- 2536 L8 Bird Song Variation and Genetic Drift in Common Yellowthroats
Greenwich, Central Middle School, Teacher - Jennifer Bresler
Margaret Cirino, Greenwich 8
Awards: Honors = 3
• Alexion Biotechnology Awards --- 3rd Place- Biotechnology 8th grade- \$100 & trophy and Invitation Compete in Broadcom MASTERS
• Yale Peabody Museum --- Family “six-pack” of free passes to the Yale Peabody Museum
• Lola Lampe Müller Award --- \$150 cash for a middle or high school project
- 2537 L8 Caffeine: Not Just for People!
Windsor, St. Gabriel School, Teacher - Margaret Rosa
Rachel Conover, Windsor 8
Awards: Honors = 2
- 2538 L8 TACE Inhibitors As Non-Biological Drugs For Treating Rheumatoid Arthritis
Hamden, Hamden Middle School, Teacher - Mrs. Michelle DeLucia
Aakshi Agarwal, Hamden 8
Awards: Honors = 1
• Pfizer Life Sciences Awards --- 5th Place- Life Sciences 8th grade- trophy and Invite to Compete Broadcom MASTERS
• Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSF
- 2539 L8 Being Green? What is the LC50 Rate of Green and Standard Detergents on *Myelis edilus*?
Fairfield, Our Lady of the Assumption School, Teacher - Kathy Almeida
Jillian Cass, Fairfield 8
Awards: Honors = 2
- 2540 L8 How do different substances affect a rose petal?
Groton, Sacred Heart School, Teacher - Sheryl McCarthy
Virginia Poe, Groton 8
Awards: Honors = 3
- 2541 L8 Which Ecosystem Has The Mmost Life?
Hamden, Hamden Middle School, Teacher - Daniel Martins
Julian Driebeek, Hamden 8
Awards: Honors = 2
• Yale Peabody Museum --- One-Year Family Membership to the Yale Peabody Museum
- 3002 LS The Effects of Ocean Acidification on Oyster Larvae (*Crassostrea virginica*)
Hamden, Sacred Heart Academy, Teacher - Mrs. Brownell
Christina Jiang, Hamden 12
Awards: Honors = 2

AWARDS

- 3003 LS Nonsymbiotic vs. Symbiotic Nitrogen-Fixing Bacteria on the Crop Yield of Leguminosae
Bethel, Bethel High School, Teacher - Mr. Trainor
Sloan Austermann, Bethel 10
Awards: Honors = 3
- 3004 LS The Effect of the D126G Mutation on the Aggregation Propensity of CRABP
Darien, Darien High School, Teacher - David Lewis
Dorry Zhao, Darien 11
Awards: Honors = 2
- Cell Analysis and Modeling Award - Center for Cell Analysis and Modeling at UCHC --- \$75 monetary prize- and Tour of the Cell and Genome Sciences Institute at UCONN Health Center
- 3005 LS Determining the Effects of Cyberknife Radiosurgery for Trigeminal Neuralgia
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Dana Chung, Orange 10
Awards: Honors = 3
- 3007 LS The Negative Effects of Phosphates on the Environment
Bethel, Bethel High School, Teacher - Mr. Turek
Hannah Bertozzi, Bethel 11
Awards: Honors = 3
- 3009 LS Development of an in vitro model for implantation
Hamden, Sacred Heart Academy, Teacher - Mrs. Pamela Brownell
Tess Cersonsky, Oxford 12
Awards: Honors = 2
- Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award
- 3010 LS Population Dynamics and Characterization of Inteins
Westport, Staples High School, Teacher - Dr. Morse
Sara Banbury, Westport 11
Awards: Honors = 2
- 3011 LS The Affect of High Fructose Corn Syrup and Blueberries on a Rat's Memory.
Fishers Island, Fishers Island School, Teacher - Carol Giles
Katie McCarthy, North Stonington 12
Awards: Honors = 2
- 3012 LS Multi-Trophic Aquaponics
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk Shadle
Max Berman-Woodward, Trumbull 12
Awards: Honors = 3
- 3014 LS Characterizing the Boundaries of the Lipid Bilayer Surrounding Intramembrane Protease GlpG
Woodbridge, Amity Regional High School, Teacher - Ms. Deborah Day
Helen Zhao, Woodbridge 12
Awards: Honors = 2
- Cell Analysis and Modeling Award - Center for Cell Analysis and Modeling at UCHC --- \$100 monetary prize- and Tour of the Cell and Genome Sciences Institute at UCONN Health Center
- 3015 LS The advantages of the navigational behavior of the slime mold Physarum polycephalum.
Glastonbury, Glastonbury High School, Teacher - Diane Pintavalle
Donna Aranibar, Glastonbury 12
Awards: Honors = 1
- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
 - University of Connecticut - Physics Department --- UCONN Early College Experience Program: Life Sciences - Co-Op \$100 Gift Certificate
- 3016 LS Does Magic Salt have a Chemical Composition that has an Effect on the Environment
Oxford, Oxford High School, Teacher - Danielle Doherty
Allyson Sweeney, Oxford 10
Awards: Honors = 3

- 3017 LS The Effects of Concentrated Drugs on Heart rate
Shelton, Shelton High School, Teacher - Diane Lucia
Neel Swamy, Shelton 11
Awards: Honors = 2
- 3018 LS Agar Extraction
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk Shadle
Christina Heffern, Stratford 12
Awards: Honors = 2
• Urban School Challenge Awards with support from CASE --- Senior High Finalist - Medallion and acrylic award
- 3019 LS Ecological Differentiation of Bacillus Ecotypes found along a Salinity Gradient in Death Valley, CA
Wallingford, Choate Rosemary Hall, Teacher - Rachel Gritzer (Dr.)
Audra Devoto, Middletown 12
Awards: Honors = 3
- 3020 LS The Impact of Noise Pollutants on Coastal Invertebrates
New London, Science & Technology Magnet High School, Teacher - Charles Mulligan
Meena Vaswani, New London 9
Awards: Honors = 3
- 3021 LS Who is Seeing Red? A Biometric Study of Anger
Westport, Staples High School, Teacher - Dr. Nicholas Morgan
Alec Solder, Westport 11
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
• Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award
- 3022 LS Good To The Last Beat...
Hamden, Sacred Heart Academy, Teacher - Dr. Sibani Sengupta
Mitali Bandyopadhyay, Farmington 9
Awards: Honors = 3
- 3024 LS Natural Antibiotics: Garlic vs. Onion
New Milford, New Milford High School, Teacher - Ms. Stolle
Harry Singh, New Milford 11
Awards: Honors = 3
- 3025 LS The Correlation Between Environmental Chitinase Activities and Asthma Severity
Woodbridge, Amity Regional High School, Teacher - Ms. Debroah Day
Evan Fox, Woodbridge 12
Awards: Honors = 2
• Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- 3026 LS Finding Clues to Genomic Disorders by Analyzing Evolutionary Variants in DNA Repeats
Madison, Daniel Hand High School, Teacher - Madhuparna Roychoudhury
Shayan Roychoudhury, Madison 10
Awards: Honors = 2
- 3027 LS Morphogenesis of and Chromosome Segregation in Escherichia coli Branching Mutants
Glastonbury, Glastonbury High School, Teacher - Ms. Diane Pintavalle
Kaitavjeet Chowdhary, Glastonbury 12
Awards: Honors = 1
• Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High- \$500 & trophy, Trip to compete at Intel ISEF
• H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Life Sciences Senior - \$1,000 cash, Solid Silver Medal of Excellence, invite to CASE Annual Mtg
• Biophysical Society --- Biophysics Award- \$100
• University of New Haven 11-12th Grade Awards in Engineering & Science --- \$100 for Top 11th or 12th Grade Project in Microbiology

AWARDS

- 3028 LS Insecticides: Killing Grass While Killing Bugs?
Hamden, Sacred Heart Academy, Teacher - Dr. Sibani Sengupta
Elizabeth Smith, Madison 9
Awards: Honors = 2
• Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- 3029 LS The Effects of Omega-3 and Omega-6 on Breast Cancer Growth Rates
Hartford, Greater Hartford Academy of Math and Sci, Teacher - Dr. Lili Aramli
Ryan Englander, Suffield 11
Awards: Honors = 3
- 3030 LS Correlation of Carcharhinus leucas (Bull Sharks) Behavior with Human Interactions as Related to Feeding Patterns and Migration in Fresh and Salt Water
Redding, Joel Barlow High School, Teacher - Dr. Nuzzo
Peter Gombos, Easton 10
Awards: Honors = 3
- 3031 LS The Effects Of Citric Acid On Calcium Carbonate
Hartford, Two Rivers Magnet High School, Teacher - Ms. Holmes
Lariab Afzaal, Windsor 9
Awards: Honors = 3
• Urban School Challenge Awards with support from CASE --- Senior High Finalist - Medallion and acrylic award
• U.S. Army --- Certificate and \$25
- 3032 LS Investigating the role of p53 in ovarian cancer cell response to the chemotherapeutic drugs cisplatin and veliparib
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Brian Liang, Bethany 12
Awards: Honors = 2
- 3033 LS The effects of bovine serum albumin (BSA) on restriction digestion and analysis of Lambda Phage DNA
Greenwich, Brunswick School, Teacher - Dana Montanez
Jacob Fields, Greenwich 12
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
• Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate
- 3034 LS The Effect of Change in Exercise on Vertical Jump Height
Sandy Hook, Newtown High School, Teacher - Mr. Tim DeJulio
Sean Elliott, Sandy Hook 12
Awards: Honors = 2
- 3036 LS Electroencephalography to Analyze and control the human Hand
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Peter Satonick, Orange 12
Awards: Honors = 3
• Mu Alpha Theta --- Certificate, \$50 gift card to Amazon given by CSEF
- 3037 LS The Efficacy of Bentonite as a Means of Purifying Water
New Milford, New Milford High School, Teacher - Mrs. Reed
Nevan Swanson, Sherman 11
Awards: Honors = 3
- 3038 LS The Presence and Magnitude of Melanomacrophages in the Livers of Sharks
Glastonbury, Glastonbury High School, Teacher - Ms. Pintavalle
Delaney Kehoe, Glastonbury 12
Awards: Honors = 2
• EnergizeCT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
• U.S. Metric Association --- Certificate & \$50 gift card to Amazon given by CSEF

- 3039 LS Application of a Poly-electrolytic Layer-by-Layer Assembled Thin Film to Prevent Post-operative Abdominal Adhesions
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Shira Rieke, Old Greenwich 11
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 3rd Place- Life Sciences Senior High- \$200 & trophy
 - UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
 - Alexion Biotechnology Awards --- 2nd Place- Biotechnology Senior High- \$400 & trophy,
 - Connecticut Science Supervisors Association --- \$125 for a high school project• Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Physical Sciences
 - Yale Chapter of Sigma Xi, The Scientific Research Society --- Dinner at Mory's for four - with members of Yale Chapter of Sigma Xi
 - University of New Haven 11-12th Grade Awards in Engineering & Science --- \$100 for Top 11th or 12th Grade Project in Biochemistry
- 3040 LS Specific Single Nucleotide Polymorphisms are More Frequent in Multiple Sclerosis Patients as Opposed to Healthy Individuals—A Genome-wide Association Study
Darien, Darien High School, Teacher - Christine Leventhal
Emily Greene, Darien 12
Awards: Honors = 3
- 3041 LS Regulation of Borrelia Burgdorferi-Induced Inflammation by TAM Receptors
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Zhangao Liu, Bethany 12
Awards: Honors = 1
- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
 - Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award
- 3042 LS Efficacy of Honey Against Bacterial Biofilms
Windsor, Madina Academy Upper School, Teacher - Esslam Hassan
Aden Khan, Windsor 10
Awards: Honors = 2
- Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award
- 3043 LS The Effect of Different Colored Cone Cells on the Fatigue Rate of the Human Retina
Trumbull, Christian Heritage School, Teacher - Mr. Cote
Nicole Blaskewicz, Monroe 11
Awards: Honors = 2
- 3044 LS Identification of Telomere Length Differences Between Maize Mutants and Their Wild-type Forms
Darien, Darien High School, Teacher - David Lewis
Andrew Xiong, Darien 12
Awards: Honors = 3
- 3045 LS Role of Macrophage Inhibitory Factor (MIF) In DNA Damage Response
Greens Farms, Greens Farms Academy, Teacher - Subhasis Mohanty
Sophia Tepler, Westport 11
Awards: Honors = 2
- 3046 LS Finding and Analyzing Motifs Uniquely Expressed Upstream in A. thaliana: Intron-Mediated Enhancement Candidates
Westport, Staples High School, Teacher - Dr. Michele Morse
Michael Adler, Westport 12
Awards: Honors = 2
- 3047 LS Evaluation of Degenerative Disc Disease of Lumbar Spine
Brewster, Brewster High School, Teacher - Edward Schmidt
Morgan Seger, Brewster 12
Awards: Honors = 3

AWARDS

- 3048 LS Leukotriene A4 Hydrolase Inhibition as a Novel Rheumatoid Arthritis Treatment
Hamden, Hamden High School, Teacher - Sonia Beloin
Ank Agarwal, Hamden 10
Awards: Honors = 2
• Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award
• Lunch with a Patent Attorney --- Lunch with a Patent Attorney
- 3049 LS Quantifying the Effects of Lionfish (*Pterois volitans*) through Food Web Analysis and Ecopath V 6.0 Modeling on the Mahahual (Mexico) Reef Zone
Darien, Darien High School, Teacher - Christine Leventhal
Katherine Ferguson, Darien 12
Awards: Honors = 3
• Yale Peabody Museum --- One-Year Family Membership to the Yale Peabody Museum
- 3050 LS Telepractice and Stuttering
Redding, Joel Barlow High School, Teacher - Dr. Nuzzo
Daniel Shapiro, Easton 12
Awards: Honors = 3
- 3051 LS Mental Rotation of Three-Dimensional Faces
Woodbridge, Amity Regional High School, Teacher - Ms. Deborah Day
Jennifer Zhu, Bethany 11
Awards: Honors = 2
- 3053 LS Sustainable Enhancement of Plant Growth & Disease Reduction Using Biochar Soil Additives
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Zheni Gusho, Stamford 11
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
• Environmental Sciences Awards with CACIWC --- 1st Place HS- \$500, Trophy, CACIWC gifts, Trip to Compete I-SWEEEP, Houston
- 3054 LS Action Potentials in *Physarum polycephalum*
Westport, Staples High School, Teacher - Dr. Michele Morse
Michael Menz, Westport 12
Awards: Honors = 3
- 3055 LS The Effect of Paranormal Activity on Temperature and EMF Ratings
Hartford, Two Rivers Magnet High School, Teacher - Ms. Holmes
Thomas Scheinblum, Manchester 9
Awards: Honors = 3
• Henderson Award --- Certificate and \$50 Amazon Gift Card given by CSF
- 3056 LS New species of Xantusiidae from the Middle Miocene of New Mexico
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Samantha Austin, Bethany 11
Awards: Honors = 3
- 3057 LS Caffeine: Friend or Foe
Hamden, Sacred Heart Academy, Teacher - Dr. Sengupta
Isobel Munday, New Haven 9
Awards: Honors = 3
• U.S. Army --- Certificate and \$25
- 3058 LS Solvent Extraction of Hydrocarbons and Hydrocarbon Derivatives from *Lythrum Salicaria* Seed Capsules
Greenwich, Greenwich High School, Teacher - Andrew J. Bramante
Andrew Ma, Riverside 10
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
• Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
• EnergizeCT/eesmarts Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Trophy, Trip to Compete I-SWEEEP, Houston
• Alumni Botany Awards --- Alumni High School Botany Award- \$100 Cash

- 3059 LS Creation of Alginate Hydrogel Microparticles with Optimum Encapsulation for Cancer Drug Release
 Darien, Darien High School, Teacher - Christine Leventhal
 Shruthi Raghuraman, Darien 12
 Awards: Honors = 2
- 3060 LS The Extraction of Tryptophan from Egg Whites by Aqueous Biphasic Solution
 Hamden, Sacred Heart Academy, Teacher - Dr. Elizabeth Christophy
 Isabella Siegel, Hamden 10
 Awards: Honors = 2
- 3061 LS Light's Role on the Symbiotic Relationship between Zooxanthellae and Ricordea florida
 Storrs, E. O. Smith High School, Teacher - Mr. Jon Swanson
 Timothy Nolan, Willington 11
 Awards: Honors = 3
- 3062 LS Studying Antigen Presenting Cells that Activate gamma-delta T cells in the Mesenteric Lymph Nodes Following Oral Listeria monocytogenes Infection
 Glastonbury, Glastonbury High School, Teacher - Ms. Diane Pintavalle
 Isha Walawalkar, Glastonbury 11
 Awards: Honors = 2
- 3064 LS Promotion of Wound Healing via a Novel Hydrophilic Dressing
 Greenwich, Greenwich High School, Teacher - Andy Bramante
 Mallory Madfes, Greenwich 12
 Awards: Honors = 1
 - Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
 - Alexion Biotechnology Awards --- 1st Place- Biotechnology Senior High- Trip to compete at Intel ISEF, \$500 & trophy,
- 3065 LS An Analysis of the Hemocyanin Content of Atlantic Horseshoe Crabs (*Limulus polyphemus*) Prior to Hemolymph Extraction in Order to Determine Organism Health Status.
 Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk P. Shadle
 Isaiah Mansour, Fairfield 12
 Awards: Honors = 2
 - Urban School Challenge Awards with support from CASE --- 3rd Place High School - \$ 200 and Trophy, Medallion
 - Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
 - Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award
 - Long Island Sound Foundation, Inc. --- \$500 Life Science/Environmental Science/Physical science
 - Mystic Aquarium --- \$100 and 4 Admission Tickets to Mystic Aquarium
 - Project Oceanology --- Individual - Book + 2 tickets, First Place Senior, check for \$100, t-shirt
- 3066 LS FDG-PET, PIB-PET, and CSF Biomarkers in Cognitively Normal Middle-Aged and Elderly Subjects
 Westport, Staples High School, Teacher - Dr. Morse
 Jeremy Sherman, Westport 12
 Awards: Honors = 2
- 3067 LS The Effect of Common Biocide Exposure on Bacterial Resistance
 New Milford, New Milford High School, Teacher - Ms. Reed
 Maren Harcken, New Milford 11
 Awards: Honors = 2
- 3068 LS A self-powered Controller for a live *Blaberus discoidalis*
 Greenwich, Greenwich High School, Teacher - Andrew Bramante
 Arun Drelich, Greenwich 11
 Awards: Honors = 1
 - Pfizer Life Sciences Awards --- 4th Place- Life Sciences Senior High- trophy
 - Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award
- 3069 LS The Growth of the Stony Coral, *Leptoseris*, in Low Levels of Electric Current
 Storrs, E. O. Smith High School, Teacher - Swanson
 Kelsey Adamson, Mansfield Center 12
 Awards: Honors = 2
 - Southeastern New England Marine Educators --- \$75 award and membership in SENEME - 1st Place Senior & T-Shirt

AWARDS

- 3071 LS Stress in Adolescents: The Causes in Modern Society
New Milford, New Milford High School, Teacher - Janeen Cunningham
Samantha Quinn, Sherman 11
Awards: Honors = 2
- 3072 LS Biological Control of The Emerald Ash Borer Using Entomopathogenic Fungus
Danbury, Danbury High School, Teacher - Mr. Weinheimer
Janine Kerr, Danbury 10
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 5th Place- Life Sciences Senior High- trophy
 - Urban School Challenge Awards with support from CASE --- Senior High Finalist - Medallion and acrylic award
 - Environmental Sciences Awards with CACIWC --- 2nd Place HS- \$200, Trophy, CACIWC gifts, Trip to Compete GENIUS Olympiad, Oswego, NY
 - Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- trophy
 - The Goodwin-Niering Center for the Environment --- \$100 for "Excellence in Environmental Conservation Studies"
 - Banning Family Life Science Award --- For excellence in invasive species research, \$100 cash
- 3073 LS The best floor board material for a flood zone
Hartford, Classical Magnet School, Teacher - Daniel Duesing
Timothy Noel-Sullivan, Hartford 9
Awards: Honors = 3
- 3074 LS Temporal lobe epilepsy and neuronal heterotopia in Brodmann area 20: A quantitative analysis
Glastonbury, Glastonbury High School, Teacher - Ms. Diane Pintavalle
Jonathan Joo, Glastonbury 12
Awards: Honors = 2
- 3075 LS Sanitize your Hands
Bethel, Bethel High School, Teacher - Mr. Trainor
Victoria Maceira, Bethel 11
Awards: Honors = 3
- 3076 LS The Role of Soluble Adenylyl Cyclase (sAC) in the Prevention of Tumor Formation
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Friederike Buck, Old Greenwich 11
Awards: Honors = 1
- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
 - Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award
 - Society for In Vitro Biology --- Certificate and \$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 Chemistry
- 3077 LS Cardiovascular Pharmacogenomics: Assessing New Genetic Variants for Warfarin and Clopidogrel Response
Darien, Darien High School, Teacher - David Lewis
Jeffrey Sload, Darien 12
Awards: Honors = 1
- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
 - University of New Haven 11-12th Grade Awards in Engineering & Science --- \$100 for Top 11th or 12th Grade Project in Cell & Molecular Biology
- 3078 LS Remote Control Glove
Norwalk, Brien McMahon High School, Teacher - Mr. Seuch
Junior Sierra, Norwalk 10
Awards: Honors = 2
- Urban School Challenge Awards with support from CASE --- Senior High Finalist - Medallion and acrylic award
 - Quinnipiac University Scholarships --- \$20,000, 4 year scholarship to Quinnipiac University for High School Student
 - Education Connection- Center for 21st Century Skills Awards --- \$100 For innovative use of technology to advance science or engineering

- 3079 LS The Effect of Nitrates on Dissolved Oxygen and Algae Growth
New Milford, New Milford High School, Teacher - Ms. Reed
Alexis Kersten, New Milford 11
Awards: Honors = 2
- 3080 LS A Novel Design for the Integration of a Microbial Desalination Cell in a Microbial Fuel Cell for the Production of Energy and Purification of Water
Windsor, Madina Academy Upper School, Teacher - Esslam Hassan
Aasiya Ahmed, Windsor 10
Awards: Honors = 2
 - EnergizeCT/eesmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion
 - EnergizeCT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- 3081 LS The Effect of Tannic Acid in the Soil Surrounding *Melissa officinalis* and the Resulting Concentration of Tannins in the Plant's Extract
Redding, Joel Barlow High School, Teacher - Dr. Katherine Nuzzo
Jamie Curtis, Redding 11
Awards: Honors = 3
- 3082 LS The Effects of Adding Xanthan Gum to Rice Starch and Sugar Mixtures on Gelatinization Time, Viscosity, and Texture
Glastonbury, Glastonbury High School, Teacher - Ms. Diane Pintavalle
Enas Jahangir, South Glastonbury 11
Awards: Honors = 3
- 3084 LS The effects of spring water on the growth rate of bean plants
Hartford, Two Rivers Magnet High School, Teacher - Ms. Holmes
Jessica Michaud, South Windsor 9
Awards: Honors = 3
- 3085 LS CCG-1423 Regulates MKL1 Nuclear Localization in Megakaryocytes
Hamden, Hamden High School, Teacher - Sonia Beloin
Justin Thomas, Hamden 11
Awards: Honors = 2
 - Alexion Biotechnology Awards --- 3rd Place- Biotechnology Senior High- \$300 & trophy
 - Society for In Vitro Biology --- Certificate and \$50 gift card to Amazon given by CSEF
- 3086 LS A Theoretical Examination of Changes in Community Structure due to Consumptive and Competitive Species Interactions During Climate Change
Wallingford, Choate Rosemary Hall, Teacher - Phoebe Zarnetske
Emily Baczyk, Avon 12
Awards: Honors = 1
 - 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
- 3088 LS What Do We Remember More: Color or Shape?
Shelton, Shelton High School, Teacher - Mary Clark
Keyur Shah, Shelton 9
Awards: Honors = 3
- 3089 LS Effect Of Short-Term Cigarette Smoke Exposure On Food Consumption In *Gryllus Assimillis*
Glastonbury, Glastonbury High School, Teacher - Dianne Pintavalle
Andrew Galinsky, S. Glastonbury 12
Awards: Honors = 3

AWARDS

- 3090 LS The Effect of MEK Inhibition on HT29 and CAKI1 Cancer Cells
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Tanay Lathia, Woodbridge 12
Awards: Honors = 2
• Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award
- 3091 LS Acne is gross... Why is it on my face???
Bethel, Bethel High School, Teacher - Mr. Raymond Turek
Desiree Campbell, Bethel 11
Awards: Honors = 3
- 3092 LS Girls vs. Boys: Is gender correlated with stress?
Bridgeport, Central High School, Teacher - Kathleen Sullivan
Archley Mathieu, Bridgeport 11
Awards: Honors = 3
• Urban School Challenge Awards with support from CASE --- Senior High Finalist - Medallion and acrylic award
- 3093 LS Ethnogenesis and State Formation in the Mycenaean State of Pylos: A-pu2/Iklaina as a Diagnostic
Darien, Darien High School, Teacher - Christine Leventhal
Reed Morgan, Darien 12
Awards: Honors = 3
• Yale Peabody Museum --- One-Year Family Membership to the Yale Peabody Museum
- 3094 LS Determining Tardigrade as a Possible Model for Genetics Research
Ridgefield, Ridgefield High School, Teacher - Dr. George Noyes
Jacob Feldman, Ridgefield 10
Awards: Honors = 2
- 3095 LS An Assessment of the Reefs in the Windward Islands due to the Presence of Pterios volitans
Westport, Staples High School, Teacher - Dr. Morse
Max Kantor, Westport 11
Awards: Honors = 2
- 3096 LS A Meta-analysis of Subthalamic versus Pallidal Deep Brain Stimulation in Parkinson's Disease
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Victoria Liu, Bethany 10
Awards: Honors = 2
- 3097 LS The Power of Suggestion
Bethel, Bethel High School, Teacher - Mr. Trainor
Quinn Vissak, Bethel 10
Awards: Honors = 2
- 3098 LS The Effect of Ethanol on Liver Catalase
Hamden, Sacred Heart Academy, Teacher - Mrs. Nelson
Allie Stupakevich, Wallingford 10
Awards: Honors = 2
- 3099 LS Comparative Suppression of Soil-borne Pathogens via Earthworm Bioturbation of Wood and Plant-based Biochars
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Anne Merrill, Old Greenwich 11
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
• Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- 3100 LS Morphological Modeling of Taurine Function in Mice to Study Oxidant Injury to Lung and Kidney Tissue
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Joseph Lee, Greenwich 12
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award

- 3501 LST Effects of Caffeine and Caffeinated Beverages on Bacterial Growth
Windsor, Madina Academy Upper School, Teacher - Esslam Hassan
Shakeel Choudhury, Bloomfield 10 Rayyan Ashraf Windsor 10
Awards: Honors = 1 • Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High Team- \$500 (split) & trophy
• Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner
- 3502 LST Comparing the Ability of the Human Body to Digest Factory and Grass-Fed Beef
East Hartford, CT Intl Baccalaureate Academy, Teacher - Ms. Twohig
Natalie Krebs, South Windsor 10 Emma Spitia Manchester 10 Rachel Roy East Hartford 10
Awards: Honors = 3
• Urban School Challenge Awards with support from CASE --- Senior High Finalist - Medallion and acrylic award
- 3503 LST Are you bananas?
Meriden, O. H. Platt High School, Teacher - Miss. Pompos
Autumn Standish, Meriden 9 Shivona Clemons Meriden 9 Ashanti Pinckney Meriden 9
Awards: Honors = 3
- 3504 LST People and Politics: Is There Bias?
Shelton, Shelton High School, Teacher - Margery Kozdeba
Brianna Sasson, Shelton 10 Tal Shashoua Shelton 10 Kai-Xan McDonald Shelton 10
Awards: Honors = 3
- 3505 LST Sun Protection Cream with Mugwort Preservative
Farmington, Miss Porter's School, Teacher - Kam Yong Jang
Boyoung Ahn, Farmington 11 Junie Khang Mclean 11
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion & Acrylic Award
- 3506 LST Chlorophyll Enhanced Dye Sensitized Solar Cells
Putnam, Putnam Science Academy, Teacher - Mr.Mehmet Yaramis
Lawand Lateef, Putnam 11 Suleyman Er West Haven 11
Awards: Honors = 2
- 3507 LST A Novel Approach to the Synthesis of a High-Performance Biomaterial
Greenwich, Brunswick School, Teacher - Dana Montanez
Alessandro Montinaro, Greenwich 10 Franklin Stitzer Greenwich 10 Christian Tanner Rye 10
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion & Acrylic Award
• Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion and acrylic award
• Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award
- 3508 LST The Effects of Herbal Remedies on Breast Cancer Cells in Cell Culture
Hartford, Greater Hartford Academy of Math and Sci, Teacher - Dr. Lili Aramli
Shantanu Sharma, Rocky Hill 12 Kishan Patel Newington 12 Alexander Pokorski Southington 12
Awards: Honors = 1
• Pfizer Life Sciences Awards --- 3rd Place - Life Sciences Senior High Team - trophy
• Urban School Challenge Awards with support from CASE --- Senior High Finalist - Medallion and acrylic award
• Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner
- 3509 LST Virtual screening of non-covalent Inhibitors for -lactamase from Enterobacter cloacae P99
Fairfield, Fairfield Warde High School, Teacher - Dr. Ish Kumar
Gazal Gulati, Fairfield 10 Sagar Gulati Fairfield 10
Awards: Honors = 2
- 3510 LST Effect of Stress on Grasshoppers' Dietary Patterns
Westport, SCISEF, Teacher - Deborah Day
Kristin Zakoworotny, Woodbridge 11 Lamisa Mannan Orange 11
Awards: Honors = 1 • Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High Team- \$300 (split) & trophy
- 3511 LST Green Crabs Effect on the Native Crabs Species in the Poquonock River
Westport, Staples High School, Teacher - Dr. Michele Morse
Jocelyn Krim, Westport 11 Amelia Speranza South Windsor 12
Awards: Honors = 2
• Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum

AWARDS

- 3512 LST What is the X-Factor?
Bridgeport, Central High School, Teacher - Kathleen Sullivan
Michael Ticsay, Bridgeport 10 Sophia Minto Bridgeport 11
Awards: Honors = 2
- 3513 LST Usage of Organic Materials (such as banana peels) to Purify Water
Putnam, Putnam Science Academy, Teacher - Caron Quantick
Jepbar Rejepov, Putnam 10 Mehmet Eygoren Putnam 10 Hacibey Catalbasoglu Putnam 10
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Science Senior High Team - CSF Medallion & Acrylic Award
- 3515 LST Can You See Vitamin C
New Haven, Hill Regional Career High School, Teacher - Haifa Abdel-Jalil
Ewelina Zambrzycka, Shelton 11 Yara Hosny East Haven 11
Awards: Honors = 2

Physical Sciences

- 4001 PT A More Efficient Way of Baking Cupcakes
Stamford, Bi-Cultural Day School, Teacher - Christopher Graseck
Daniel Seligson, Stamford 7 Joshua Appel Stamford 7 Eitan Karsch Stamford
Awards: Honors = 3
- 4002 PT pHast Food
Southington, DePaolo Middle School, Teacher - Mrs. Shea
Ashley Shafran, Southington 7 Erin Palinkos Southington 7
Awards: Honors = 2
- 4003 PT Enzyme frenzy
Danbury, St. Gregory the Great School, Teacher - Josephine Ferry
Katie Colucci, Danbury 8 Anna Strosser Danbury 8
Awards: Honors = 1
• Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion & Acrylic Award
- 4004 PT Robots as Teachers
Bethany, Amity Reg Middle School, Bethany Campus, Teacher - Mr. Kevin Berean
Arnaaz Khwaja, Woodbridge 8 Sarah Saxe Bethany 8
Awards: Honors = 1
• Dominion Millstone Power Station Physical Sciences Awards --- 1st Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
• Xerox Computer Science Awards --- 1st Place Middle School - \$300, Trophy and Medallion
• Leask/Francoeur Family Awards --- 1st Place Middle School- For innovation electrical engineering or computer science - \$100 cash
- 4005 PT Sweet Sugar: The Effect of Different Sugar Types on Rock Candy Growth
Trumbull, Christian Heritage School, Teacher - Modupe Oshin
Cynthia McArthur, Fairfield 8 Sarah Meade Shelton 8
Awards: Honors = 2
- 4006 PT Retrofitting a Building
Norwalk, All Saints Catholic School, Teacher - Mrs. Snow
Olivia Troy, Westport 8 Samantha Gebicki Westport 8
Awards: Honors = 2
- 4007 PT Cars: Pulling Their Own Weight
Danbury, Broadview Middle School, Teacher - Mr. Brewster
Grace Antedomenico, Danbury 8 Muqsith Rafi Danbury 8
Awards: Honors = 3

- 4008 PT Poison In the Ground
Newtown, Newtown Middle School, Teacher - Andracchi
Margaret Koekkoek, Newtown 8 Bryanna Benson Sandy hook 8
Awards: Honors = 3
• American Society of Safety Engineers, CT Valley Chapter --- \$100 grade 7-8 project
- 4009 PT Rain, Rain, Go Away
Stamford, Bi-Cultural Day School, Teacher - Mr. Christopher Graseck
Joshua Dweck, Armonk 7 Danny Goldblum Stamford 7 Charles Nadel Westport 7
Awards: Honors = 2
- 4010 PT Overcoming Rotational Inertia
Norwalk, All Saints Catholic School, Teacher - Mrs. Snow
Christy Russo, Norwalk 8 Leah Zezima Norwalk 8
Awards: Honors = 1
• Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion & Acrylic Award
- 4011 PT Methods That Utilize Available Solar and Thermal Energy to Charge Your Electrical Device in a Power Outage Using a Thermoelectric Generator
Windsor, Madina Academy Middle School, Teacher - Abdelrahman ElSherbini
Osama ElSherbini, Windsor 8 Nader Kasem Glastonbury 7
Awards: Honors = 1
• Dominion Millstone Power Station Physical Sciences Awards --- 3rd Place- Physical Sciences MS Team- trophy, invite to compete Broadcom MASTERS
• Barnes Aerospace Applied Technology Awards --- 2nd Place Middle School - \$200 and Trophy, Medallion
• EnergizeCT/eesmarts Alternative/Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy
• EnergizeCT/eesmarts Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- 4012 PT Zap That Zit
Bridgeport, Park City Prep Charter School, Teacher - Ms. Johnson
Caitlyn Hughes, Bridgeport 8 Rachel Texiera Bridgeport 8
Awards: Honors = 2
- 4013 PT How does the certain liquids affect the trajectory of light
Danbury, Broadview Middle School, Teacher - Mr. Brewster
Griffin Barnett, Danbury 7 Marcus Baisi Danbury 7
Awards: Honors = 3
- 4014 PT Analysis of Fabric Flammability Rates and Effect of Chemical Flame Retardants, versus Effect Natural Flame Retardants.
Orange, Southern Connecticut Hebrew Academy, Teacher - Karen Howell
Chana Piekarski, Hamden 8 Esther Caroline New Haven 8
Awards: Honors = 1
• Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion & Acrylic Award
• Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWCgifts, CSF Medallion, Acrylic award
• American Society of Safety Engineers, CT Valley Chapter --- \$100 grade 7-8 project
- 4015 PT A Battery That Makes Cents
Southington, DePaolo Middle School, Teacher - Mrs. Donna Shea
Evan Bender, Southington 7 Michael Dorsey Southington 7
Awards: Honors = 2
- 4016 PT Building Bridges
Danbury, St. Gregory the Great School, Teacher - Mrs. Josephine Ferry
Joseph Kiselak, Danbury 7 Nicholas Walker Danbury 7
Awards: Honors = 2
• U.S. Air Force --- Certificate, sport bag, speaker, organizer

AWARDS

- 4017 PT Dry Ice Engine
Pawcatuck, St. Michael School, Teacher - Mr. DeNoia
Flora Klise, Mystic 8 Sara Wrótniak Pawcatuck 8
Awards: Honors = 1
• Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion & Acrylic Award
- 4018 PT Does Cell Phone Distraction Effect Your Reaction?
Madison, Our Lady of Mercy School, Teacher - Mrs. Rosalie Zonder
Emily Connelly, Madison 7 Amy Ziobron Westbrook 7
Awards: Honors = 1
• Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion & Acrylic Award
• American Society of Safety Engineers, CT Valley Chapter --- \$100 grade 7-8 project
- 4019 PT Juicy Pop
West Hartford, St. Brigid School, Teacher - Jennifer Bernaiche
Emily Gartrell, Bloomfield 8 Taylor Battle West Hartford 8
Awards: Honors = 3
- 4020 PT Containing Heat
Brewster, H. H. Wells Middle School, Teacher - Anthony Forte
Tara Regan, Brewster 7 Carly Mengler Brewster 7
Awards: Honors = 2
- 4022 PT How different positions affect scores in a video game
Danbury, Broadview Middle School, Teacher - jeffrey brewster
Joseph ledan, Danbury 8 Ryan Cirella Danbury 8
Awards: Honors = 3
- 4023 PT The Creation Of Seismic Waves
Bridgeport, Cesar A. Batalla School, Teacher - Mr. Bell
Prince Ostagne, Bridgeport 8 Adrian Gallant Bridgeport 8
Awards: Honors = 3
- 4024 PT The Python Weather Station
Avon, Talcott Mountain Academy, Teacher - Mr. Shook
Devon Bierut, Windsor 8 Drake Muth Windsor 8
Awards: Honors = 3
• American Society for Quality - Thames Valley Section --- \$400 cash
- 4026 PT Energy of the Future
Plantsville, John F. Kennedy Middle School, Teacher - Mrs. Pepin
Amisha Paul, Southington 7 Kayleigh Moses Southington 7
Awards: Honors = 2
- 4027 PT The Exciting Electrical Current
Wilton, Middlebrook School, Teacher - Mrs. Mallozzi
Quentin Thouvenot, Wilton 8 Simon Lindberg Wilton 8
Awards: Honors = 2
- 4028 PT Iodine Clock Reaction, The Fusion Of Ions
Bridgeport, Cesar A. Batalla School, Teacher - Adam Bell
Kirya Brown, Bridgeport 8 Melany Escobar Bridgeport 8
Awards: Honors = 3
- 4029 PT Marble Roller Coaster
Danbury, Broadview Middle School, Teacher - Mr. Brewster
Tyson Richards, Danbury 7 Ryan Caldwell Danbury 7
Awards: Honors = 3

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- 4030 PT Air Particles and Air Quality
Norwalk, Ponus Ridge Middle School, Teacher - Dr. Pierre-Louis
Sarah Wink, Norwalk 7 Casey Keenan Norwalk 7
Awards: Honors = 2
- 4031 PT Effect of Plastic on Food Evaporation, Nutrient Value, Oxidation, and Antioxidant Levels.
Orange, Southern Connecticut Hebrew Academy, Teacher - Mrs. Karen Howell
Honey Rogoff, New Haven 8 Sophia Ting New Haven 8
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion & Acrylic Award
- 4032 PT Meltdown
Hartford, Classical Magnet School, Teacher - Ms. Abo
Aaron Dang, Bloomfield 8 Kofi Ansong Manchester 8
Awards: Honors = 3
- Urban School Challenge Awards with support from CASE --- Middle School Finalist - Medallion and acrylic award
 - American Meteorological Society --- Certificate & \$50 Amazon gift card given by CSEF certificate & membership to CT Science Center given by CSF
- 4033 PT Comparing the Electrical Load of a Fuel Cell and a Rechargeable Battery
Norwalk, All Saints Catholic School, Teacher - Mrs. Erin Snow
Samantha Nagle, Norwalk 7 Bryn Reilly Westport 7
Awards: Honors = 3
- 4035 PT Comparison of Golf Balls Travel Distance Using A Trebuchet
West Hartford, St. Timothy Middle School, Teacher - Mrs. Miller/Mrs. Breen
Kevin Manning, West Hartford 7 Edward Amelemah Hartford 7
Awards: Honors = 3
- 4036 PT Truth... or a Fraud?
Madison, Our Lady of Mercy School, Teacher - Mrs. Zonder
Clare Gagliano, Madison 8 Megan Phillips Madison 8
Awards: Honors = 2
- 4037 PT Launch Your Marbles
Norwalk, West Rocks Middle School, Teacher - Ryan Mitchell
Ryan Cappadona, Norwalk 8 Andrew Goldstein Norwalk 8
Awards: Honors = 3
- 4038 PT The Effect of Heat Treatment on the Strength of Steel
Hamden, Hamden Middle School, Teacher - Danny Martins
Rachel Baumann, Hamden 8 Heather Tucker Hamden 8
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Jr Team - CSF Medallion & Acrylic Award
 - U.S. Air Force --- \$50 Amazon gift card given to each student
 - American Society for Metals - Hartford Chapter --- \$100 Check
- 4039 PT Pointe Comfort
Danbury, Broadview Middle School, Teacher - Mr. Brewster
Claudia Harris, Danbury 7 Julianna Carney Danbury 7
Awards: Honors = 2
- 4040 PT The Effects of different Colors on Light Refraction
Guilford, E. C. Adams Middle School, Teacher - Kristen Meyerjack
Claire Keanna, Guilford 7 Rachael Brown Guilford 7
Awards: Honors = 2
- 4041 PT Kiss This
Norwalk, Roton Middle School, Teacher - Steven Buckett
Katie Gatt, Norwalk 8 Emma Curtin Norwalk 8
Awards: Honors = 2
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AWARDS

- 4042 PT Fighting The Wave
Plantsville, John F. Kennedy Middle School, Teacher - Nancy Wasserman and Pamela Pepin
Kristen Mathew, Southington 8 Rebecca Lo Presti Plantsville 8
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- 2nd Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
 - United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack and Annual Report
- 4043 PT Measuring the Buoyancy of Boats
Norwalk, All Saints Catholic School, Teacher - Mrs. Snow
John Rohr, Norwalk 8 Trevor Zezima Norwalk 8
Awards: Honors = 3
- 4044 PT Maglev Modeling
Hamden, Hamden Middle School, Teacher - Danny Martins
Kayla Johnson, Hamden 8 Eهران Hodes Hamden 8
Awards: Honors = 2 • Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award
- Barker Mohandas Award for Transportation Research --- \$250 Cash for Excellence in Transportation Related Research
- 4045 PT Massive Movement
New Haven, Worthington Hooker Middle School, Teacher - Mr. Jones
Charles Orr, New Haven 8 Quincy Ponvert New Haven 8
Awards: Honors = 2
- 4046 PT The speed of marble drop.
Danbury, Broadview Middle School, Teacher - Mr. Brewster
Brandon Delaney, Danbury 7 Vannesa Dohoney Danbury 7
Awards: Honors = 3
- 4047 PT The Effect of Different Landscaping Methods on the Prevention of Topsoil Erosion
Guilford, E. C. Adams Middle School, Teacher - Kristen Meyerjack
Jackson Fischbach, Guilford 7 Andre Kish Guilford 7
Awards: Honors = 2
- Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWCgifts, CSF Medallion, Acrylic award
- 5001 P7 Solar Car: Affect of Different Colored FILms on a Solar Panel
Bozrah, Fields Memorial School, Teacher - Mrs. E. Brown
Joseph Cirrito, Bozrah 7
Awards: Honors = 2
- Barnes Aerospace Applied Technology Awards --- 3rd Place Middle School - \$100 and Trophy, Medallion
- 5002 P7 Tsunamis: The Effects of Water Depth and Sea Floor Variation on Wave Velocity
Madison, Our Lady of Mercy School, Teacher - Sr. Carol
Cole Simons, Guilford 7
Awards: Honors = 2
- American Meteorological Society --- Certificate & \$50 Amazon gift card given by CSEF
- 5004 P7 “Thawts” on Ice
Trumbull, St. Catherine of Siena School, Teacher - Ms. Kelley Collins
Theodore Whiteman, Trumbull 7
Awards: Honors = 3
- 5005 P7 Hovercraft Power
Milford, St. Gabriel School, Teacher - John Campbell
Matthew O’Rourke, Milford 7
Awards: Honors = 3

- 5006 P7 Perfect Plastic
Bozrah, Fields Memorial School, Teacher - Mrs. E. Brown
Katie Provost, Bozrah 7
Awards: Honors = 1
- 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
- 5007 P7 Do the Eyes Have it?
Stratford, St. Mark School, Teacher - Mr. Flynn
Grant diBenedetto, Stratford 7
Awards: Honors = 3
- 5008 P7 Charles's Law: The Effect of Temperature on the Volume of a Gas
New Haven, St. Aedan-St. Brendan School, Teacher - Mr. Celentano
Jacob Spell, New Haven 7
Awards: Honors = 3
- The Children's Museum --- 1 family 4-Pack of Admission Passes to the Children's Museum
- 5009 P7 How Can Water Help Win A War?
East Granby, East Granby Middle School, Teacher - Mr. Langan
Maxwell Landolina, East Granby 7
Awards: Honors = 3
- 5010 P7 Bernoulli Effect: the magic ball
Fairfield, Roger Ludlowe Middle School, Teacher - Ileana Scerbo
Daniel Carbone, Southport 7
Awards: Honors = 2
- 5011 P7 Impact of Various Parameters on Solar Panel Efficiency
Glastonbury, Smith Middle School, Teacher - Kelly Cruess
Niyati Hora, Glastonbury 7
Awards: Honors = 2
- 5012 P7 Robotic Rubik's Cube Solver
Bozrah, Fields Memorial School, Teacher - Evelyn Brown
Evan Windsor, Bozrah 7
Awards: Honors = 1
- 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

AWARDS

- 5013 P7 How Useful is Your Wind
Wilton, Middlebrook School, Teacher - Kendra Norman
Emilie McCann, Wilton 7
Awards: Honors = 1
• Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion & Acrylic Award
- 5014 P7 The Effect of Different Types of Light Bulbs on the Relative Efficiency
Guilford, E. C. Adams Middle School, Teacher - Kristen Meyerjack
Andrew Chapman, Guilford 7
Awards: Honors = 2
- 5015 P7 Transfer of Heat
Stratford, St. Mark School, Teacher - Mr. Flynn
Michaela Luk, Stratford 7
Awards: Honors = 2
- 5016 P7 Which Daily Beverage Stains Teeth More and does Brushing with a Whitener Help?
Milford, St. Gabriel School, Teacher - John Campbell
Michael LoCicero, Milford 7
Awards: Honors = 3
- 5017 P7 Keeping it Green with Oranges: The Use of Orange Peels to Create a Better Biofuel
Windsor, Madina Academy Middle School, Teacher - Iman Al-Naggar
Jareen Choudhury, Bloomfield 7
Awards: Honors = 2
• Alexion Biotechnology Awards --- 5th Place- Biotechnology 7th grade- trophy
- 5018 P7 The Best Roof for a New England Home
Norwalk, All Saints Catholic School, Teacher - Mrs. Snow
Peter Baez, Stamford 7
Awards: Honors = 3
- 5019 P7 The Better Bubble
Pawcatuck, St. Michael School, Teacher - Mr. DeNoia
Ivy Allik, Pawcatuck 7
Awards: Honors = 3
- 5020 P7 Comparative Study of Three Renewable Energy Sources: Solar Power, Wind Power, and Hydroelectric Power
Norwalk, All Saints Catholic School, Teacher - Mrs. Erin Snow
Evan Guerrero, Norwalk 7
Awards: Honors = 1
• Dominion Millstone Power Station Physical Sciences Awards --- 5th Place- Physical Sciences 7th Grade Individual - trophy
- 5021 P7 Free Electricity from Your Car
Windsor, St. Gabriel School, Teacher - Maragret Rosa
Max Mossberg, Windsor 7
Awards: Honors = 1
• Dominion Millstone Power Station Physical Sciences Awards --- 2nd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS
- 5022 P7 Salt of the Earth
Southington, St. Thomas School, Teacher - Pauline Pelczar
Noah DeFeo, Plantsville 7
Awards: Honors = 3
- 5023 P7 Can speed, size and weight of an asteroid affect the size of moon craters?
Groton, Sacred Heart School, Teacher - Sheryl McCarthy
Alyssa Morelli, Old Lyma 7
Awards: Honors = 3

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- 5024 P7 H2O vs Gatorade
Hartford, SS. Cyril and Methodius School, Teacher - Mrs. Alice Powell
Yucel Santiago, Hartford 7
Awards: Honors = 3
- 5025 P7 How to build a homemade light bulb and choosing a light bulb filament
Groton, Sacred Heart School, Teacher - Sheryl McCarthy
Madison Powe, Groton 7
Awards: Honors = 3
- 5026 P7 Electrical Conductivity of Salt Water
Kensington, St. Paul School, Teacher - Kelly Wytas
Ishita Goel, Middletown 7
Awards: Honors = 3
- Society of Women Engineers - Hartford Section --- Scientific Calculator
- 5027 P7 Impact of using ice-melting chemicals on the coastal waters surrounding the Mystic River Estuary, Beebe Cove and the Noank Marina
Groton, Sacred Heart School, Teacher - Mrs. Sheryl McCarthy
Andrea Garcia, Mystic 7
Awards: Honors = 3
- EnergizeCT/eesmarts Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
 - Association for Women Geoscientists --- Certificate & \$50 gift card to Amazon given by CSEF
- 5028 P7 Fuel Cell Project
Hartford, SS. Cyril and Methodius School, Teacher - Alice Powell
Jose Rendon, Hartford 7
Awards: Honors = 3
- 5029 P7 Crystal Radio
Danbury, St. Peter Sacred Heart Int'l School, Teacher - Mr Feeney
Nolan Ames, Danbury 7
Awards: Honors = 3
- 5030 P7 The Idea Generator
Avon, Talcott Mountain Academy, Teacher - Mr. Shook
Aaron Grier, Bloomfield 7
Awards: Honors = 3
- 5031 P7 What's the Fastest Way to Cool a Soda?
New Haven, St. Aedan-St. Brendan School, Teacher - Celentano
Darrell Draughn, Hamden 7
Awards: Honors = 2
- 5032 P7 A Gauss Rifle: A Magnetic Linear Accelerator
Windsor, St. Gabriel School, Teacher - Margaret Rosa
Justin Lam, Windsor 7
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion & Acrylic Award
- 5033 P7 Burning Calories: How Much Energy is Stored in Different Types of Food?
Danbury, St. Joseph School, Teacher - Ms. Iapaluccio
Makinsey Jarboe, Danbury 7
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion & Acrylic Award

AWARDS

- 5034 P7 Effect of Temperature on Magnetism
Norwalk, All Saints Catholic School, Teacher - Mrs. Erin Snow
Kristen Beaumonte, Westport 7
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion & Acrylic Award
 - Connecticut College-Physics, Astronomy, & Geophysics Dept. --- \$150 and certificate, Junior Physics & teeshirt
 - ISA - International Society for Automation --- 3rd - \$50 award
- 5035 P7 Amp Up Your Knowledge About Electricity
New Britain, Pope John Paul II School, Teacher - Kathleen Welch
Kamila Krawczuk, New Britain 7
Awards: Honors = 2
- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
 - IEEE, Connecticut Section --- \$100 Honorable Mention
- 5036 P7 Let It Flow When It Blows!
East Haven, East Haven Academy, Teacher - Jan Staires
Reham Perry, East Haven 7
Awards: Honors = 3
- 5037 P7 Changing Particle Mass to Attempt to Change The Rate of Carbon Dioxide Release
Newtown, St. Rose of Lima School, Teacher - Mrs. Dimon
Nicole Palmieri, Sandy Hook 7
Awards: Honors = 3
- 5038 P7 Electromagnetism - The effect of coils.
Fairfield, Tomlinson Middle School, Teacher - Ms. Lusardi
Mohith Mothukuri, Fairfield 7
Awards: Honors = 3
- 5040 P7 Rubber Band Energy
New Britain, Pope John Paul II School, Teacher - Kathleen Welch
Dawid Karpiej, Newington 7
Awards: Honors = 3
- 5041 P7 The Heat Is On!
East Haven, East Haven Academy, Teacher - Jan Staires
Molly Mazzucco, East Haven 7
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- 4th Place- Physical Sciences 7th Grade Ind. - trophy, invite to compete Broadcom MASTERS
 - EnergizeCT/eesmarts Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
 - Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School Life Sciences
- 5042 P7 Does the temperature affect the brightness of Luminol?
Newtown, St. Rose of Lima School, Teacher - Mrs. Dimon
Victoria Gugliotti, Southbury 7
Awards: Honors = 2
- 5043 P7 Bridges: Can They Take the Weight?
Southington, St. Thomas School, Teacher - Pauline Pelczar
Matthew Raymond, Southington 7
Awards: Honors = 3
- 5044 P7 What's in Your Water
Milford, St. Gabriel School, Teacher - John Campbell
Jessica Sanchez, Milford 7
Awards: Honors = 3

- 5045 P7 Corrosion Of Different Metals
Avon, Talcott Mountain Academy, Teacher - Mr. Tom Noonan
Ryan Gorneault, Bristol 7
Awards: Honors = 2
• American Society for Metals - Hartford Chapter --- \$100 Check
- 5046 P7 Designs that Shake with Earthquakes
Bridgeport, High Horizons Magnet School, Teacher - Mrs. Scott-Thiam
Aaron Thomas-Russell, Bridgeport 7
Awards: Honors = 3
- 5047 P7 Automating A Simple Electromagnetic Generator to Power A Device By Switching AC Current To DC Current
Windsor, Madina Academy Middle School, Teacher - Faraz Malik
Khaleel Rahman, Windsor 7
Awards: Honors = 2
• EnergizeCT/eesmarts Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- 5048 P7 Which Blade is Best?
West Hartford, St. Timothy Middle School, Teacher - Ms. Miller
Mark Coley II, Bloomfield 7
Awards: Honors = 3
- 5049 P7 Lift and Drag in Kites
Stafford Springs, St. Edward School, Teacher - Mrs. Donna Napolitano
Karen Agro, Somers 7
Awards: Honors = 2
• Dreams Unlimited --- \$100 cash award + certificate
- 5050 P7 Stability of Digital Data
Cheshire, St. Bridget School, Teacher - Mrs. Carroll
Evan Mikulski, Wallingford 7
Awards: Honors = 1
• Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion & Acrylic Award
- 5051 P7 What Color of Light is Most Visible Through Fog?
Bethel, Bethel Middle School, Teacher - Mr. Maxwell
Patrick Joyce, Bethel 7
Awards: Honors = 2
- 5052 P7 Oily Calories
Bridgeport, Multicultural Magnet School, Teacher - Mr. Mayorga
Sarah Hernandez, Bridgeport 7
Awards: Honors = 2
- 5053 P7 Simple Machine Design and Uses
Groton, Sacred Heart School, Teacher - Sheryl McCarthy
Trinity Rashan, Waterford 7
Awards: Honors = 2
- 5054 P7 Which Orange Juice Has The Most vitamin C?
East Haven, East Haven Academy, Teacher - Jan Staires
Jessica Shultis, East Haven 7
Awards: Honors = 2
- 5055 P7 Pain, Pain Go Away!
Bethel, St. Mary School, Teacher - Mrs. Conover
Tiffany Saviano, Danbury 7
Awards: Honors = 1
• Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion & Acrylic Award

AWARDS

- 5501 P8 How Weight Distribution Affects Flight Distance
Fairfield, Tomlinson Middle School, Teacher - Gemma Lusardi
Corinne Wilklow, Fairfield 8
Awards: Honors = 2
- 5502 P8 Earth, Wind, and Fire- comparing water, wind, and solar based fuels
New Haven, Betsy Ross Arts Magnet School, Teacher - Ms. MacDonald
Brian Brigham, Orange 8
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
 - Urban School Challenge Awards with support from CASE --- Middle School Finalist - Medallion and acrylic award
- 5503 P8 Do Metals Have Antimicrobial Properties?
Fairfield, Our Lady of the Assumption School, Teacher - Kathy Almeida
Arianna Morton, Bridgeport 8
Awards: Honors = 2
- ASM Materials Education Foundation --- Certificate & \$50 gift card to Amazon given by CSEF& medallion
 - American Society for Metals - Hartford Chapter --- \$100 Check
- 5504 P8 Make It Glow
Hartford, Hartford Magnet Trinity College Academy, Teacher - Ms.Parmelee
Brandon Jones, Bloomfield 8
Awards: Honors = 3
- 5505 P8 Oxidation Reduction Reactions In Apples And Bananas
Newtown, St. Rose of Lima School, Teacher - Mrs. Dimon
Laura Russell, Brookfield 8
Awards: Honors = 2
- Ricoh Corporation/Society for Science & the Public --- Certificate, Lapel Pin,\$50 gift card to Amazon given by CSEF
 - Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner
- 5507 P8 Pressure Kicks
East Granby, East Granby Middle School, Teacher - Mr. Paskiewicz
Ryan Vanags, East Granby 8
Awards: Honors = 3
- 5508 P8 Salt Water Energy
Danbury, St. Joseph School, Teacher - Mrs. K. Iapaluccio
James Parris, Brookfield 8
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
 - EnergizeCT/eesmarts Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion, Acrylic Award
 - EnergizeCT/eesmarts Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- 5509 P8 Aerodynamics and Bridge Design
Bridgeport, Park City Prep Charter School, Teacher - Tiffany D. Johnson
Jonathan Moura, Bridgeport 8
Awards: Honors = 2
- 5510 P8 Tape vs. Texture
Pawcatuck, St. Michael School, Teacher - Mr. Michael Denoia
Jacob Freeman, Stonington 8
Awards: Honors = 2
- 5511 P8 Homemade Ice Packs
Hartford, Hartford Magnet Trinity College Academy, Teacher - Mrs. Parmelee
Taryn Rahman, Manchester 8
Awards: Honors = 2

- 5512 P8 The Adhesion of Athletic Bandages
Pawcatuck, St. Michael School, Teacher - Mr. Denoia
Samantha Narducci, Pawcatuck 8
Awards: Honors = 2
• Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award
- 5513 P8 Singing Wine Glass
Stafford Springs, St. Edward School, Teacher - Donna Napolitano
Alexis Palmberg, Stafford 8
Awards: Honors = 3
- 5514 P8 Assessing Human Emotional Responses to Robots
Bethany, Amity Reg Middle School, Bethany Campus, Teacher - Kevin Berean
Katherine Handler, Woodbridge 8
Awards: Honors = 2
- 5516 P8 Inertia Propulsion
Greenwich, Central Middle School, Teacher - Ms. Jennifer Bresler
Ethan Novek, Greenwich 8
Awards: Honors = 1
• Dominion Millstone Power Station Physical Sciences Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & trophy, invite to compete Broadcom MASTERS
• Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Science 8th Grade - \$500 and invite to CSTA Award Banquet
- 5517 P8 Chocolate Melt: Amount of Cocoa in Chocolate vs. Time It Takes to Melt
Kensington, St. Paul School, Teacher - Miss Kelly Wytas
Mary Wood, Berlin 8
Awards: Honors = 3
- 5518 P8 Renewable Energy
Bridgeport, Cesar A. Batalla School, Teacher - Mr. Bell
Johnny Lopez, Bridgeport 8
Awards: Honors = 2
- 5519 P8 The effect of name brand detergent, eco friendly detergent, and value brand detergent on grape juice stains
Newtown, Newtown Middle School, Teacher - Mrs. Andracchi
Ashley Jacobs, Newtown 8
Awards: Honors = 3
- 5521 P8 A New Mathematical-Equation Based Approach for Faster and Efficient Digital Video Transmission
Madison, Walter C. Polson Middle School, Teacher - Madhuparna Roychoudhury
Ankita Roychoudhury, Madison 8
Awards: Honors = 1
• 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
- 5523 P8 Efficiency of Plane Designs
Greens Farms, Greens Farms Academy, Teacher - Sara Campolettano
Oliver Ferry, Fairfield 8
Awards: Honors = 1
• Dominion Millstone Power Station Physical Sciences Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
• United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack and Annual Report
• Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSF
• American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate
• Demos R Us --- \$150 Cash Award Clear Execution of Research
• Harvey Hubbell Foundation Award --- \$100 for Excellence in Engineering

AWARDS

- 5524 P8 the mechanics of an elevator
Hartford, SS. Cyril and Methodius School, Teacher - mrs. powell
Amira Gilbert, Hartford 8
Awards: Honors = 3
- 5525 P8 Tidal Power: Extracting Energy from Ocean Tides
Stafford Springs, St. Edward School, Teacher - Mrs. Napolitano
Samuel Teerlinck, Monson 8
Awards: Honors = 2
• EnergizeCT/eesmarts Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- 5526 P8 Sound Proofing Your World
Southington, St. Thomas School, Teacher - Mrs. Pelczar
Michael Nanfite, Southington 8
Awards: Honors = 2
• Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- 5527 P8 Stressful
West Hartford, St. Timothy Middle School, Teacher - Mrs. Breen
Kelly Galeota, West Hartford 8
Awards: Honors = 2
• Connecticut Architecture Foundation --- \$100 Gift Certificate to Barnes and Nobles
- 5528 P8 Wind power
Norwalk, Ponus Ridge Middle School, Teacher - Ellen Knapp
Aldo Campos, Norwalk 8
Awards: Honors = 2
- 5529 P8 Making Gas Mileage More Efficient
Fairfield, Tomlinson Middle School, Teacher - Mrs. Lusardi
Nicholas Muro, Fairfield 8
Awards: Honors = 1
• Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
- 5532 P8 Melt Away
West Hartford, St. Brigid School, Teacher - Mrs. Bernaiche
Olivia Craig, Farmington 8
Awards: Honors = 3
- 5533 P8 Sugar in Milk
Trumbull, Christian Heritage School, Teacher - Mrs. Oshin
Ashley He, Trumbull 8
Awards: Honors = 2
- 5534 P8 Power Pitching?
Fairfield, Our Lady of the Assumption School, Teacher - Kathy Almeida
Daniel Gardella, Fairfield 8
Awards: Honors = 3
- 5535 P8 An Investigation of How the Environmentally Harmful Levels of Algal Bloom Due to Fertilizer Run-off into the Fresh and Coastal Sea Waters of Connecticut Can Be Reduced.
Trumbull, St. Catherine of Siena School, Teacher - Mrs. Kelley Collins
Abigail Kelly, Shelton 8
Awards: Honors = 1
• Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
• Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
• EnergizeCT/eesmarts Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy

- 5536 P8 What is the best way to clean up oil?
Groton, Sacred Heart School, Teacher - Sheryl McCarthy
Isabella Jenne, Waterford 8
Awards: Honors = 3
- 5537 P8 What form of data compression is most compressing?
New Britain, Sacred Heart School, Teacher - Ms. Kornas
Joseph Bechard, New Britain 8
Awards: Honors = 2
- 5538 P8 Controlling Mobile Robots With Sensors
Bozrah, Fields Memorial School, Teacher - Mrs. Brown
Emily O'Connor, Bozrah 8
Awards: Honors = 2
- Xerox Computer Science Awards --- 2nd Place Middle School - \$200, Trophy and Medallion
 - IEEE, Connecticut Section --- \$100 Honorable Mention
 - ISA - International Society for Automation --- 1st - \$125 award
- 5539 P8 Watts Up?
East Granby, East Granby Middle School, Teacher - Mr. Paskiewicz
Jolie Berger, East Granby 8
Awards: Honors = 2
- 5540 P8 Evaluating the Performance of a Model Solar Updraft Tower Power Plant
Newtown, St. Rose of Lima School, Teacher - Mrs. Dimon
Grace Herrick, Newtown 8
Awards: Honors = 1
- 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
- 5541 P8 Throwing
Milford, St. Gabriel School, Teacher - John Campbell
Jack Greene, Milford 8
Awards: Honors = 3
- 5542 P8 Smart Servos
Stratford, Harry B. Flood Middle School, Teacher - Gorski
Stephen Rutkowski, Stratford 8
Awards: Honors = 3
- 5544 P8 Hydro or Wind?
Norwalk, All Saints Catholic School, Teacher - Erin Snow
Sean Leary, Norwalk 8
Awards: Honors = 3
- 5545 P8 Flow Rate vs. Heat Transfer of Fluid
Southington, St. Thomas School, Teacher - Mrs. Pelczar
Ross Ayer, Southington 8
Awards: Honors = 2
- 5546 P8 Goldberg Goes Gaghnam Style
Bethel, Bethel Middle School, Teacher - Steven LaBounty
Emerald Eggert, Bethel 8
Awards: Honors = 3

AWARDS

- 5547 P8 Particle Wave Duality Forward Into The Unknown
Bridgeport, John Winthrop School, Teacher - Mr. Walsh
Junlin Mo, Bridgeport 8
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
 - Urban School Challenge Awards with support from CASE --- Middle School Finalist - Medallion and acrylic award
- 5548 P8 Does the temperature of a tennis ball effect the height of its bounce?
Brewster, H. H. Wells Middle School, Teacher - Mr. Forte
Lindsey McLaughlin, Brewster 8
Awards: Honors = 3
- 5549 P8 Wind Turbine Blade Efficiency Through Extensions and Winglet Modifications
Tolland, Stonewall Academy, Teacher - Don Peck
Amelia Peck, Tolland 8
Awards: Honors = 2
- 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
- 5550 P8 As The Wind Turns
Hartford, Hartford Magnet Trinity College Academy, Teacher - Ms. Parmelee
Amrit Parmanand, Ellington 8
Awards: Honors = 2
- Urban School Challenge Awards with support from CASE --- Middle School Finalist - Medallion and acrylic award
 - Fred Bailey Memorial Award --- \$250 for innovative research- Hartford Urban Middle School Project
- 5551 P8 Power! A study of various airplane engines and the forces they generate
Hamden, Hamden Middle School, Teacher - Delucia
Elliot Romo Kurek, Hamden 8
Awards: Honors = 2
- 5552 P8 Measure the Surface Tension of Water
Danbury, St. Joseph School, Teacher - Miss Iapaluccio
John Mollenthel, Danbury 8
Awards: Honors = 2
- 5553 P8 Save the beach house
Groton, Sacred Heart School, Teacher - sheryl mccarthy
Benjamin Godley, Groton 8
Awards: Honors = 3
- Randy Gibson Award for Earth Science Research --- \$100 cash and plaque
- 5554 P8 Gender Bias with Robots
Bethany, Amity Reg Middle School, Bethany Campus, Teacher - Kevin Berean
Zoe Sottile, Woodbridge 8
Awards: Honors = 2
- 5555 P8 "I'm Melting!" The Wicked Witch of the West and Ice Agree Global Warming is a Problem
Hamden, Hamden Middle School, Teacher - Danny Martins
Amelia Lewis, Hamden 8
Awards: Honors = 2
- 5556 P8 High fructose corn syrup versus sugar: Observing the behaviors of invertebrates that are fed sugar and high fructose.
New Haven, St. Aedan-St. Brendan School, Teacher - Mr. Celantano
Roy Smith, New Haven 8
Awards: Honors = 3

- 5557 P8 Comparison of Absorption Rates of Natural vs. Artificial Sugars and Effect of Antioxidant Spice Enhancers on Absorption Rates
Orange, Southern Connecticut Hebrew Academy, Teacher - Karen Howell
Esther Katz, New Haven 8
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
 - Association for Women Geoscientists --- Certificate & \$50 gift card to Amazon given by CSEF
 - Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner
- 5558 P8 Evaluating Lead Levels of Water in Older Homes
New Haven, Engineering & Science University Magnet School, Teacher - Roger Rushworth
Lauren Low, Hamden 8
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- 5th Place- Physical Sciences 8th Grade Ind. - trophy, invite to compete Broadcom MASTERS
 - Urban School Challenge Awards with support from CASE --- Middle School Finalist - Medallion and acrylic award
 - Environmental/ Energy Award- Urban Public School Award --- \$100 Award for top environmental or alternative energy project from a New Haven public school
- 5559 P8 Other Bags
New Haven, Worthington Hooker Middle School, Teacher - Behn
William Benoit, New Haven 8
Awards: Honors = 2
- 5560 P8 The Effect Of RAM and CPU Speed on Windows System Speed
Trumbull, Christian Heritage School, Teacher - Mrs. Oshin
Zechariah Schaefer, Wilton 8
Awards: Honors = 2
- 5561 P8 Got Glue?
New Britain, Sacred Heart School, Teacher - Miss Kornas
Briana Muller, Berlin 8
Awards: Honors = 3
- 5562 P8 Converting Waste to Electricity using Efficient Microbial Fuel Cell
Danbury, St. Joseph School, Teacher - Katherine Iapaluccio
Martha Haddad, Danbury 8
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- 4th Place- Physical Sciences 8th Grade Ind. - trophy, invite to compete Broadcom MASTERS
 - EnergizeCT/eesmarts Alternative/Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy
 - EnergizeCT/eesmarts Sustainable Resources and Practices Awards --- 1st Place Middle School - \$500 Cash and Trophy
 - UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
 - Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS
 - Talcott Mountain Science Center --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Phys Science
 - Society of Women Engineers - Hartford Section --- Scientific Calculator
 - MIT Club of Hartford K-12 Initiative --- For excellence in energy related research, middle school, \$150 cash award
- 5563 P8 Does the design of the bridge affect it capacity
New Haven, St. Aedan-St. Brendan School, Teacher - M. Celentano
Jazmine Smith, West Haven 8
Awards: Honors = 3
- 5564 P8 Growing Green
East Granby, East Granby Middle School, Teacher - Mr. Paskiewicz
Emily Farmer, East Granby 8
Awards: Honors = 2

AWARDS

- 5565 P8 Which battery creates the best solenoid?
Danbury, St. Gregory the Great School, Teacher - Josephine Ferrry
Rohit Krishnamurthy, Danbury 8
Awards: Honors = 2
- 6001 PS An Investigation of a Novel TiO₂ Coating for Improved Surrounding Air Quality & Reduced Solar Cell Maintenance
Greenwich, Greenwich High School, Teacher - Mr. Bramante
Blake Hallisey, Greenwich 11
Awards: Honors = 2
- Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
 - Yale Science & Engineering Association, Inc. --- Certificate, Medallion, \$50 gift card to Amazon given by CSEF
 - Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related
- 6003 PS New Invention that will harness wave power to convert to unlimited rotational energy
Suffield, Suffield High School, Teacher - Mr. Charkewitz
Matthew Rogers, Suffield 9
Awards: Honors = 3
- 6005 PS Trace Metals Found in Pet Food
Hamden, Sacred Heart Academy, Teacher - Pam Brownell
Angelina Ditta, Guilford 10
Awards: Honors = 2
- 6006 PS Utilization Of A Small Unmanned Aerial System for Optimization of Deer Tick Population Management
Greenwich, Greenwich High School, Teacher - Andy Bramante
Paul Hansel, Old Greenwich 9
Awards: Honors = 2
- Barnes Aerospace Applied Technology Awards --- 1st Place High School - \$500 and Trophy, Medallion
 - Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate
- 6007 PS Using Modified Coal Ash to clean water contaminated with oil
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Mr. Kirk Shadle
Ana Pontes, Bridgeport 12
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
 - Urban School Challenge Awards with support from CASE --- 2nd Place High School - \$300 and Trophy, Medallion
 - United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack and Annual Report
 - David and Torrey Fenton Awards --- For creative work in the physical sciences- high school; \$200 cash
- 6009 PS Automatic Detection and Classification of Alzheimer's Disease From MRI Scans Using Principal Component Analysis and Artificial Neural Networks
Shelton, Shelton High School, Teacher - Mrs. Lucia
Rigel Mahmood, Shelton 11
Awards: Honors = 2
- 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
- 6011 PS The Effects of Rotor Blade Orientation on the Electrical Output of a Wind Turbine
Hebron, RHAM High School, Teacher - Kristin Spinelli
Harrison Pellerin, Hebron 9
Awards: Honors = 3
- 6012 PS Maximizing the solar collection of a solar panel by mobilizing the system
Norwich, Norwich Free Academy, Teacher - Mrs. Jones
Remington Carle, Norwich 12
Awards: Honors = 2
- EnergizeCT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
 - Connecticut Association for the Gifted --- \$50 gift certificate to Barnes and Noble

- 6013 PS Prediction of cancer tissue-origin based on molecular sequencing evidence using a machine learning-based classifier algorithm
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Jordan Henck, Woodbridge 12
Awards: Honors = 3
- Xerox Computer Science Awards --- Senior High Finalist - Medallion, Acrylic Award
 - United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack and Annual Report
- 6014 PS Fabrication of a Flexible, Tunable Color Changing Skin using Magnetically Responsive Fe₃O₄ Photonic Crystal Structures
Fairfield, Fairfield Warde High School, Teacher - Andrew Bramante
Sofia Bramante, Fairfield 11
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
 - Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate
 - The National Society of Professional Engineers --- Certificate, Lapel Pin, \$50 gift card to Amazon given by CSEF
- 6016 PS How Robotic Facial Features Affect the Ability to Attend to and Recall Movement Patterns
Woodbridge, Amity Regional High School, Teacher - Ms. Deborah Day
Thomas Meehan, Orange 12
Awards: Honors = 2
- 6017 PS Development and Testing of a Bicep Other Arm Movements for a Humanoid Robot with Human-like Force Capabilities
Greens Farms, Greens Farms Academy, Teacher - Mathieu Freeman
Robert Barnet, Ridgefield 12
Awards: Honors = 2
- 6019 PS Creating a Perpetual Motion Generator with Permanent Magnets and Ceramic Ball Bearings
Greenwich, Brunswick School, Teacher - Mrs. Montanez
Thomas Tranfo, Greenwich 11
Awards: Honors = 3
- 6020 PS Integration of Photovoltaic and Peltier-Seebeck Thermoelectric Effects to Optimize the Power Density of a Hybrid Solar Panel
Manchester, East Catholic High School, Teacher - Mr. Paul Oei
Bridget Oei, Hebron 11
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
 - Barnes Aerospace Applied Technology Awards --- 2nd Place High School - \$300 and Trophy, Medallion
 - Environmental Sciences Awards with CACIWC --- 3rd Place HS- \$100, Trophy, CACIWC gifts
 - EnergizeCT/eesmarts Alternative/Renewable Energy Awards --- 3rd Place High School - \$200 Cash and Trophy
 - EnergizeCT/eesmarts Future Sustainability Awards --- 3rd Place High School - \$300 Cash and Trophy
 - UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
 - Mu Alpha Theta --- Certificate, \$50 gift card to Amazon given by CSEF
 - Connecticut Architecture Foundation --- \$100 Gift Certificate to Barnes and Nobles
 - IEEE, Connecticut Section --- \$100 Honorable Mention
 - Westinghouse Electric Company/New England Chapter of North American Young Generation in Nuclear --- 1st place, Excellence in Energy Research, \$100 cash award
 - MIT Club of Hartford K-12 Initiative --- For excellence in energy related research, high school, \$150 cash award
- 6021 PS Geomagnetic Storms and GPS Systems
Bethel, Bethel High School, Teacher - Raymond Turek
Matt Novoa, Bethel 11
Awards: Honors = 3
- ISA - International Society for Automation --- 2nd - \$75 award
- 6023 PS A Hot Air Balloon's Ability to Fly
Fishers Island, Fishers Island School, Teacher - Carol Giles
Amber Ferguson, Fishers Island 11
Awards: Honors = 2

AWARDS

- 6024 PS Finding the Shortest Distance Between Nodes in a Network
Glastonbury, Glastonbury High School, Teacher - Ms. Pintavalle
Mohamed El-Dirany, Glastonbury 11
Awards: Honors = 2
- 6025 PS Coastal Home Protection
Bethel, Bethel High School, Teacher - Raymond Turek (Mr. Turek)
Matt Golabek, Bethel 11
Awards: Honors = 3
- 6026 PS Purifying water using solar power and electrolysis
Suffield, Suffield High School, Teacher - Mitchell Charkiewicz
Paul Grimard, Suffield 11
Awards: Honors = 3
- 6027 PS Tires, Treads, and Traction
East Hartford, East Hartford High School, Teacher - Tim Reid
Brandon Vu, East Hartford 10
Awards: Honors = 3
- 6029 PS Effect of MnO₂ on the Hydrogen Production of a TiO₂ Based Water Splitting Solar Cell
Westport, Staples High School, Teacher - Dr. Nicholas Morgan
Ian Klasky, Westport 12
Awards: Honors = 3
- 6031 PS Peak electricity: Generating Energy Using a Centrifugal Airflow Fan Blade, Propelled by Hot Air Flowing from a Soffit Vent to a Ridge Vent On a Roof
Hamden, Sacred Heart Academy, Teacher - Shawn Kelly
Olivia Kelly, Shelton 11
Awards: Honors = 2
- EnergizeCT/eesmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion
 - EnergizeCT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
 - Society of Women Engineers - Hartford Section --- Scientific Calculator
 - ProConn Power Inc. Award for Sustainable Electrical Energy Research --- \$250 for Excellence in Sustainable Electrical Energy Research
 - University of New Haven 11-12th Grade Awards in Engineering & Science --- \$100 for Top 11th or 12th Grade Project in Energy & Transportation
- 6032 PS Design of a New Mobile and Autonomous True Random Number Generator.
Suffield, Suffield High School, Teacher - Mitchell Charkiewicz
Kyle Zielinski, Suffield 10
Awards: Honors = 3
- 6033 PS The Use of Pulse Width Modulation for Sensory Input Control of an Unmanned Aerial Vehicle (UAV) in the C++ Programming Language
Trumbull, Christian Heritage School, Teacher - Dan Cote
Ian Vaca, Southport 11
Awards: Honors = 1
- Dominion Millstone Power Station 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 --- Senior High Finalist - Medallion, Acrylic Award
 - U.S. Army --- Silver medallion & Certificate & \$50
 - IEEE, Connecticut Section --- \$250 Honors Award -Senior
 - CT Technology Council Youth Innovation Award --- \$150 Cash Award for Technological Innovation
 - Leask/Francoeur Family Awards --- 1st Place High School- For innovation electrical engineering or computer science - \$200 cash
- 6035 PS Does blade size matter?
Bethel, Bethel High School, Teacher - Mr. Turek
Victor Vieira, Bethel 10
Awards: Honors = 2

- 6036 PS Development of a frictionless magnetic drive to increase efficiency in wind driven turbines
Oxford, Oxford High School, Teacher - Nicole Granucci
Brian Westgate, Oxford 11
Awards: Honors = 2
- Barnes Aerospace Applied Technology Awards --- 3rd Place High School - \$ 200 and Trophy, Madllion
 - Barker Mohandas Award for Transportation Research --- \$250 Cash for Excellence in Transportation Related Research
- 6037 PS The Use of a Shingled Write Layout to Improve upon Current Hard Drive Capacity
Darien, Darien High School, Teacher - David Lewis
Bradley Cage, Darien 12
Awards: Honors = 2
- 6038 PS Viable Alternatives to Methyl-Ethyl Cellulose as a Binder in Plique à Jour Enameling
Redding, Joel Barlow High School, Teacher - Dr. Nuzzo
Julia Wargo, Easton 11
Awards: Honors = 2
- 6039 PS Analysis of Open Star Clusters Predicts the Fate of the Milky Way
Westport, Staples High School, Teacher - Dr. Michele Morse
Kim Adler, Westport 12
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
 - Astronomical Society of Greater Hartford --- Senior Project-\$150, subscription to Sky and Telescope magazine and ASGH meeting invitation
 - Connecticut College-Physics, Astronomy, & Geophysics Dept. --- \$150 and certificate, Senior Physics & teeshirt
- 6041 PS The Most “Invisible” Geometric Shape: The Future of Stealth Technology
Greenwich, Brunswick School, Teacher - Mrs. Dana Montanez
Reed McMurchy, Stamford 10
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- 6042 PS The Road Below and Stopping Ability
Bethel, Bethel High School, Teacher - Mr. Turek
Caitlyn Peterson, Bethel 10
Awards: Honors = 3
- 6043 PS Shoulder Posture Perfect Backpack Insert Design
Danbury, Danbury High School, Teacher - Mrs. Manes
Irene Mathew, Danbury 10
Awards: Honors = 2
- American Society of Safety Engineers, CT Valley Chapter --- \$150 grade 9-12 project
- 6044 PS Bubbleology
East Hartford, East Hartford High School, Teacher - Timothy Reid
Sasha Rhodd, East Hartford 9
Awards: Honors = 3
- 6045 PS Rapid Monte Carlo Testing of the Efficacy of Error-Correcting Codes for Robust Quantum Computing
Greenwich, Greenwich High School, Teacher - Bramante
Helen Hansel, Old Greenwich 11
Awards: Honors = 1
- 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

AWARDS

- 6046 PS Research on the general summation formula of any sequence and ancillary results.
Trumbull, Christian Heritage School, Teacher - Daniel Cote
Xiaofei Yu, Shelton 12
Awards: Honors = 1
- 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
- 6047 PS A General Study of Different Exposures of Acid Rain Concentrations on Plant Height
Oxford, Oxford High School, Teacher - Ms. Doherty
Rebecca Shpak, Oxford 10
Awards: Honors = 2
- 6048 PS The Bedini Circuit
New Milford, New Milford High School, Teacher - Mrs. Stolle
Maddox Niebauer, Gaylordsville 11
Awards: Honors = 3
- 6049 PS Biomechanics of Pitching
Fishers Island, Fishers Island School, Teacher - Carol Giles
Jacob Lusker, Fishers Island 12
Awards: Honors = 3
- 6050 PS Nanostructured C-Phycocyanin Enhanced Hematite Thin-Film Photoanode Co-Sensitized with Plural Organic Dyes to Yield a Highly Efficient Solar Cell
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Maxmillian Minichetti, Greenwich 10
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- 1st Place - Physical Sciences Senior High Individual - \$500 & trophy, trip to compete at Intel ISEF
 - UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
 - H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Physical Sciences Senior - \$1,000 cash, Solid Silver Medal of Excellence, invite to CASE Annual Mtg
 - Arthur Mensing Award --- \$500 cash award for excellence in the physical sciences
- 6051 PS Homemade Method of Preventing Browning in Bananas
Glastonbury, Glastonbury High School, Teacher - Ms. Pintavalle
Josh Gertler, Glastonbury 12
Awards: Honors = 2
- 6052 PS Hydroharmonics: The Mathematics Behind Music and the Frequency of Musical Notes in Water
East Hartford, East Hartford High School, Teacher - Mr. Tim Reid
Rebecca Forte, East Hartford 10
Awards: Honors = 2
- 6053 PS How Geometric and Material effect the Decibels Produced
Bethel, Bethel High School, Teacher - Mr. Trainor
Katherine Joseph, Bethel 10
Awards: Honors = 3
- 6054 PS Integration of Photoluminescent Manganese-doped ZnS Nanocrystals for Improved Solar Cell Response
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Peter Russell, Riverside 10
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- 5th Place- Physical Sciences Senior High Individual - trophy
 - Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate

- 6056 PS Thermoelectricity
Norwich, Norwich Free Academy, Teacher - Mrs. Jones
Connor Provost, Bozrah 9
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
 - Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
 - EnergizeCT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
 - Wisner Award --- \$250 cash and plaque
 - University of Connecticut - Physics Department --- UCONN Physics Department - Co-Op \$100 Gift Certificate
 - John B. Trevor Award in Electrical Engineering --- \$500 cash award for an innovative electronic or electrical project
- 6058 PS Quantitative Analysis of H₂ Production via Photocatalytic Water Splitting
Greenwich, Greenwich High School, Teacher - Andy Bramante
Antony Manokhin, Greenwich 11
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- 6059 PS Optimization of the Cellulose Algae Salt Battery
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Mr. Kirk Shadle
Karim Kharbouch, Bridgeport 12
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
 - Urban School Challenge Awards with support from CASE --- 1st Place High School - \$500 and Trophy, Medallion and trip to compete at Intel Int. Sci. & Eng. Fair
 - EnergizeCT/eesmarts Future Sustainability Awards --- 1st Place High School - \$800 Cash, Trophy, and Trip to Compete I-SWEEEP, Houston
 - UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
 - University of New Haven 11-12th Grade Awards in Engineering & Science --- \$100 for Top 11th or 12th Grade Project in Engineering: Materials and Bioengineering
- 6060 PS The Correlation between Psychosocial Disorders and Childhood Psychological Stresses and Neurological Data
Glastonbury, Glastonbury High School, Teacher - Ms. Diane Pintavalle
Kashish Hora, Glastonbury 12
Awards: Honors = 2
- People's United Bank Mathematics Awards - with ATOMIC --- 2nd Place High School- \$100 from ATOMIC, Trophy, \$300 from People's United Bank
- 6061 PS Can natural substances replenish the body better than a specialized substance?
Hamden, Sacred Heart Academy, Teacher - Dr. Christophy
Sara Golbazi, East Haven 10
Awards: Honors = 3
- 6062 PS Using cAu-TNF Nanoparticle For Targeted Cancer Therapy: A Simulation
Woodbridge, Amity Regional High School, Teacher - Ms. Deborah Day
Satish Bhat, Orange 12
Awards: Honors = 3
- 6064 PS Alternative Wind Turbine Design
Suffield, Suffield High School, Teacher - Mr. Charkiewicz
Lukas Baker, Suffield 9
Awards: Honors = 2
- 6065 PS Roofing Material Selection: The Impact on Ambient, Internal, and Reflective Temperatures
Greenwich, Brunswick School, Teacher - Dana Montanez
Cooper Robinson, Riverside 10
Awards: Honors = 3

AWARDS

- 6066 PS Digital Image Sharpening through Optimization of Filtering Parameters based on Genetic Algorithms
Greens Farms, Greens Farms Academy, Teacher - Dr. Mathieu Freeman
Saurav Acharya, Milford 12
Awards: Honors = 1
- 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
- 6067 PS Effects of Volcanic Activity on Acid Rain Levels
Redding, Joel Barlow High School, Teacher - Dr. Nuzzo
Ryan Wendt, Easton 10
Awards: Honors = 3
- 6068 PS Ca²⁺ Sensitive Alginate-Dendrimer FRET System for the Detection of MI
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Shiyu Zhuang, Orange 12
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
 - Alexion Biotechnology Awards --- 4th Place- Biotechnology Senior High- \$200 & trophy
 - Cell Analysis and Modeling Award - Center for Cell Analysis and Modeling at UCHC --- \$50 monetary prize- and Tour of the Cell and Genome Sciences Institute at UCONN Health Center
- 6069 PS Wine Making; From Caves to Chemistry
Hamden, Sacred Heart Academy, Teacher - Mrs. Brownell / Mario Ricozzi
Callia Ricozzi, Branford 10
Awards: Honors = 2
- U.S. Army --- Certificate and \$25
- 6070 PS Boosting Ethanol's Heat Production
Shelton, Shelton High School, Teacher - Mrs. Presutto
Alessandra Boisvert, Shelton 12
Awards: Honors = 3
- 6071 PS Fingerprint- Scanning ATM
Brewster, Brewster High School, Teacher - Edward Schmidt
Abigail Verille, Brewster 11
Awards: Honors = 3
- 6073 PS Developing an Inexpensive Speed Radar Trap Using an Arduino Board
Glastonbury, Glastonbury High School, Teacher - Ms Diane Pintavalle
Brittany Horton, Glastonbury 11
Awards: Honors = 3
- 6074 PS Generating Energy from the Swing Flexion, Swing Extension, Stance Flexion, and Stance Extension Stages of Knee Motion
Using a Two-Generator, Brushless, Electromagnetic Knee Brace Device
Redding, Joel Barlow High School, Teacher - Dr. Katherine Nuzzo
Ryan Lei, Easton 12
Awards: Honors = 2
- 6075 PS Removing Copper From Drinking Water
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Mr. Shadle
Ydelfonso De La Cruz, Bridgeport 10
Awards: Honors = 2

- 6076 PS The General Study of Alternative Fluids for Asphalt Solar Thermal Collectors
Oxford, Oxford High School, Teacher - Ms. Granucci
Richard Smith, Oxford 10
Awards: Honors = 3
- 6078 PS Laser-induced Propulsion of Anticancer-Doxorubicin Using a Combined Optical Tweezing and Radiation-induced Interface Deformation
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Rebecca Murray, Greenwich 11
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & trophy, trip to compete at Intel ISEF
 - Coherent, Inc. Richard Hart Award for Excellence in Photonics --- \$300 cash, plaque, invitation to lunch and tour Coherent factory
- 6079 PS Role of Stellar Wind on Presence of Gaseous Protoplanets
Westport, SCISEF, Teacher - Deborah Day
Ehsan Khan, Bethany 12
Awards: Honors = 2
- 6080 PS Harnessing the Warmth of the Sun
East Hartford, East Hartford High School, Teacher - Tim Reid
Shawn Murdzek, East Hartford 10
Awards: Honors = 2
- 6081 PS The Effect of Lead (Pb) particles on the Electrical Resistivity of Carbon Nanotubes
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Arvene Golbazi, Orange 10
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
 - IEEE, Connecticut Section --- \$100 Honorable Mention
- 6082 PS Laptop With Built In Printer
Suffield, Suffield High School, Teacher - Mitch Charkiewicz
Elizabeth Rigby, Suffield 12
Awards: Honors = 3
- 6083 PS Intrinsic Laptop Energy Capture via Keyboard Piezoelectric Conversion
Greenwich, Greenwich High School, Teacher - Andy Bramante
Travis Anderson, Greenwich 11
Awards: Honors = 2
- EnergizeCT/eesmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion
 - EnergizeCT/eesmarts Future Sustainability Awards --- 2nd Place High School - \$500 Cash and Trophy, Trip to Compete at GENIUS Olympiad, Oswego, NY
 - Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate
 - Connecticut Association of Physics Teachers --- \$100 Senior project • University of Connecticut - Physics Department --- UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificat
 - Education Connection- Center for 21st Century Skills Awards --- \$100 For innovative use of technology to advance science or engineering
- 6084 PS Efficient Amylase Inhibition by usage of Cicer arietinum, Phaseolus lunatus, and Glycine max
Redding, Joel Barlow High School, Teacher - Katherine Nuzzo
Lia Cirelli, Redding 11
Awards: Honors = 2
- 6085 PS The Effect of an Altered Muffler on a Portable Generator in Relation to its Sound Level
Oxford, Oxford High School, Teacher - Mrs. Granucci
Zachary Geffert, Oxford 10
Awards: Honors = 2
- American Society of Safety Engineers, CT Valley Chapter --- \$150 grade 9-12 project
 - Connecticut Academy of Audiology --- \$150 Cash Award High School- For Excellence in Audiology and Acoustics

AWARDS

- 6086 PS Design for a generating battery life through keyboard
Suffield, Suffield High School, Teacher - Mitch Charkiewicz
Ben Cheng, Suffield 12
Awards: Honors = 3
- 6087 PS The Effects of Vitamins and Minerals on Absorbance Wavelength
Hartford, Two Rivers Magnet High School, Teacher - Mrs. Holmes
Alexela Hoyt, Bristol 9
Awards: Honors = 2
- Urban School Challenge Awards with support from CASE --- Senior High Finalist - Medallion and acrylic award
 - Fred Bailey Memorial Award --- \$250 for innovative research- Hartford Urban High School Project
- 6088 PS Correlation Between Nuclear Magnetic Moment and Quadrupole Moment for Rare Isotopes
Storrs, E. O. Smith High School, Teacher - Vladimir Zelevinsky
Jessica Hyde, Ashford 12
Awards: Honors = 2
- 6089 PS Reduction of Biodiesel Post Combustion Residue
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk Shadle
Julia Elstein, Trumbull 12
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
 - Urban School Challenge Awards with support from CASE --- Senior High Finalist - Medallion and acrylic award
 - Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
 - GENIUS Olympiad --- GENIUS Olympiad Competition for HS student (s) and advisor - Energy
 - University of New Haven 11-12th Grade Awards in Engineering & Science --- \$100 for Top 11th or 12th Grade Project in Sustainability
- 6090 PS The Use of Samaras for the Safe Dispersion of Pesticides from Aerial Craft
Oxford, Oxford High School, Teacher - Mrs. Granucci
Kevin Schumitz, Oxford 11
Awards: Honors = 2
- 6091 PS Melting Polar Caps and Northern Hemisphere Weather: Is there a correlation between the melting of the polar caps and weather conditions in the northern hemisphere?
Redding, Joel Barlow High School, Teacher - Dr. Katherine Nuzzo
Theodoros Aris, Redding 12
Awards: Honors = 3
- Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
 - University of New Haven 11-12th Grade Awards in Engineering & Science --- \$100 for Top 11th or 12th Grade Project in Environmental Science
- 6092 PS Optimization of Multi-Layered Feed-Forward Artificial Neural Networks for Various Applications
Fairfield, Fairfield College Preparatory School, Teacher - Mr. Anthony Canuel
Dylan Hawkes, Trumbull 10
Awards: Honors = 3
- Xerox Computer Science Awards --- 3rd Place High School- \$200, Trophy, Medallion
 - IEEE, Connecticut Section --- \$100 Honorable Mention

- 6093 PS Novel Creation of a Hydrocarbon-Soaking Paper for Remediation and Reuse of Nanoscale Oil Contaminants in Water
Greenwich, Greenwich High School, Teacher - Mr. Bramante
Gabrielle Liflander, Riverside 11
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- 3rd Place- Physical Sciences Senior High Individual - \$200 & trophy
 - Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
 - EnergizeCT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
 - Stockholm Junior Water Prize --- Certificate, Letter,\$50 gift card to Amazon given by CSEF, possible advance to further competition
 - The National Society of Professional Engineers --- Certificate, Lapel Pin,\$50 gift card to Amazon given by CSEF
 - Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, air pollution related
 - TurnKey Compliance Solutions Environmental Awards --- \$200 Cash Award High School- For excellence in environmental sciences
- 6094 PS Extraction and Comparison of Caffeine Levels
Fishers Island, Fishers Island School, Teacher - Carol Giles
Olivia Backhaus, Stonington 11
Awards: Honors = 3
- 6095 PS Electrical Resistance of Water
Hebron, RHAM High School, Teacher - Richard Staron
Jack Caplan, Marlborough 9
Awards: Honors = 3
- 6096 PS The Effect of Type of Water Source on Water Quality
Bethel, Bethel High School, Teacher - Mr. Trainor
Joseph Liquori, Bethel 10
Awards: Honors = 2
- 6097 PS Amazing Magnets
Fishers Island, Fishers Island School, Teacher - Carol Giles
Annabelle Orlando, Waterford 12
Awards: Honors = 3
- 6099 PS The Analysis of Violin Resonance: Subjective Versus Objective.
Brewster, Brewster High School, Teacher - Mr. Edward Schmidt
Samantha Skaller, Brewster 12
Awards: Honors = 2
- 6100 PS Non-toxic Biological indicator of Food Spoilage in Pasteurized Milk of Varying Fat Content for Consumer Use
Redding, Joel Barlow High School, Teacher - Dr. Nuzzo
Andrea McGowan, Redding 10
Awards: Honors = 2
- U.S. Army --- Certificate and \$25
- 6101 PS An Investigation of the Biodegradation Rate and Efficiency of Starch-Based Bioplastics
Greenwich, Brunswick School, Teacher - Ms. Montanez
Sivan Sud, Greenwich 11
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- 6102 PS Bat Making Efficiency
Fishers Island, Fishers Island School, Teacher - Carol Giles
Tim Hoch, Fishers Island 12
Awards: Honors = 3
- 6103 PS Bio-mimicry: The Antimicrobial Proprieties of Nanoscopic Silicon Replications of the Lotus Leaf and the Pitcher Plant
Hartford, Academy of Aerospace and Engineering, Teacher - Dr. Lili Aramli
Russell Weeks, Portland 12
Awards: Honors = 2

AWARDS

- 6501 PST Determining the index of refraction of water and air as a function of temperature and exploring how the vision of people wearing glasses are affected by temperature change.
Putnam, Putnam Science Academy, Teacher - Ahmet Duman
Yusa Senel, Putnam 11 Kenan Berber Putnam 11 Furkan Teke Putnam 11
Awards: Honors = 3
- 6502 PST Blades Of Fury: Wind Blade Efficiency
Shelton, Shelton High School, Teacher - Robert Darby
Joseph Niski, Shelton 9 Ian Diaz Shelton 9 Casey Cisero Shelton 9
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion & Acrylic Award
- 6503 PST What does your shampoo do to you?
Meriden, O. H. Platt High School, Teacher - Miss. Pomposi
Karilis Mercado, Meriden 9 Stephanie Nieves Meriden 9
Awards: Honors = 3
- Urban School Challenge Awards with support from CASE --- Senior High Finalist - Medallion and acrylic award
- 6504 PST Does Temperature Affect the Glow of Luminol?
Norwalk, Norwalk High School, Teacher - Mr. Belmonte
Jakari Gainer, Norwalk 9 Zach White Norwalk 9
Awards: Honors = 2
- 6505 PST Subsurface Recovery of Spilled Crude Oil Using Nanomagnet Retrieval System
Greenwich, Brunswick School, Teacher - Dana Montanez
Matthew Mayfield, Greenwich 12 Vikram Bodas Greenwich 11 Robert Schultz New Canaan 11
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion & Acrylic Award
- 6506 PST An Ecological Outlook on the Effects of Pollution on Dissolved Oxygen Levels in Seawater
Shelton, Shelton High School, Teacher - Mary Clark
Wesley Kocurek, Shelton 10 Dylan Smith Shelton 10 Scott Shnipes Shelton 10
Awards: Honors = 2
- 6508 PST A novel approach to degrade harmful byproducts formed during the production of Polyethylene Terephthalate (PET) by using Fomepizole.
Putnam, Putnam Science Academy, Teacher - Serdar Haytiyev
Selman Avci, Middletown 11 Almas Myrzatay Putnam 11
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Team- \$300(split) & trophy
 - American Society of Safety Engineers, CT Valley Chapter --- \$150 grade 9-12 project
- 6509 PST Application of Graphene in Improving Efficiency and Practicality of Transparent and Flexible Photovoltaic Cells
Greenwich, Brunswick School, Teacher - Dana Montanez
Ashish Ramachandran, Stamford 11 Spencer McDonough Greenwich 11
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion & Acrylic Award
 - Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- 6510 PST Adaptive Leading Edge Droop Mechanism to Increase Fuel Efficiency and Flight Safety on Private Aircraft
Middletown, Xavier High School, Teacher - Mr. Michael Humphreys
Mario Chris, Storrs 12 Jeff Witz New Britain 12 John Reidy Northford 12
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- 1st Place- Physical Sciences Senior High Team- \$500 (split) & trophy
 - American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate

- 6511 PST Windbelts: The Future of Wind Power; The Effect of Magnet Thickness, Coil Configuration, and Film Elasticity on Electrical Output of a Windbelt
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Daniel Giebisch, Woodbridge 10 Noah Gallant Bethany 10
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- 3rd Place - Physical Sciences Senior High Team - trophy
 - EnergizeCT/eesmarts Alternative/Renewable Energy Awards --- 2nd Place High School - \$300 Cash and Trophy, Trip to Compete GENIUS Olympiad, Oswego, NY
- 6512 PST Light Absorption Of Roof Shingles
Bridgeport, Central Magnet High School, Teacher - Candice Dritschler
Anna Chanyarakskul, Bridgeport 9 Dora Vang Bridgeport 9
Awards: Honors = 2
- 6513 PST A comparative analysis of a mycelia-based foam alternative versus expanded polystyrene as effective insulators and packaging materials.
Greenwich, Brunswick School, Teacher - Dana Montanez
Kevin Pendo, Darien 10 Mahesh Raman Stamford 10
Awards: Honors = 1
- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior Team - CSF Medallion & Acrylic Award
 - EnergizeCT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- 6514 PST Passive Electrical Generation Through Convection
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Mr. Shadle
Katharine Morris, Bridgeport 9 Alexis Spencer Bridgeport 9
Awards: Honors = 2
- 6515 PST The Pasta Party
Meriden, O. H. Platt High School, Teacher - Pomposi
Corey Zemke, Meriden 9 Samantha Heath Meriden 9 Jenna Noel Meriden 9
Awards: Honors = 3
- 6516 PST Cooling Off
Shelton, Shelton High School, Teacher - Mrs. Hayes
Regina Weissenberg, Shelton 10 Melissa Alfaro Shelton 11
Awards: Honors = 2

AWARDS

Winning Projects of Regular Categories

Awd	CSF – Life Sciences					CSF – Physical Sciences				
	LT	L7	L8	LS	LST	PT	P7	P8	PS	PST
1	1020	2018	2513	3027	3501	4004	5006	5516	6050	6510
2	1006	2017	2532	3086	3510	4042	5021	5523	6078	6508
3	1021	2021	2518	3039	3508	4011	5012	5540	6093	6511
4		2016	2504	3068			5041	5562	6066	
5		2031	2538	3072			5020	5558	6054	
M	1001	2001	2517	3015	3505	4003	5013	5502	6007	6502
M	1012	2007	2527	3021	3507	4010	5032	5508	6014	6505
M	1013	2014		3033	3513	4014	5033	5521	6020	6509
M				3041		4017	5034	5529	6033	6513
M				3053		4018	5050	5535	6039	
M				3058		4031	5055	5547	6041	
M				3064		4038		5557	6045	
M				3076					6046	
M				3077					6056	
M				3099					6058	
M				3100					6059	
M									6068	
M									6081	
M									6089	
M									6101	

Winning Projects of Special Categories

Awd	Biotechnology		
	7th grade	8th grade	9-12th gr
1	2032	5562	3064
2	2017	2504	3039
3	1016	2536	3085
4	5006	1020	6068
5	5017	2519	3072
M	2006	2524	3009
M	2021	2529	3021
M	2024	4044	3041
M	2031	5512	3042
M			3048
M			3065
M			3076
M			3090
M			3507

Winning Projects of Special Categories

Award	Computer Science		Mathematics		Applied Tech		Envir Science		Urban School	
	Middle	High	Middle	High	Middle	High	Middle	High	Middle	High
1	4004	3086	5521	6046	5540	6006	5006	3053	2018	6059
2	5538	6066	5006	6060	4011	6020	2518	3072	2017	6007
3	5521	6092	5549	6009	5001	6036	5540	6020	2504	3065
M	5012	6013	5012	3086	5012	3068	1020	3025	1016	3018
M		6033	5540	6045	5035	3507	4014	3028	2005	3031
M		6045		6066		6033	4047	3058	2012	3072
M							5526	3065	2023	3078
M							5535	3099	2026	3092
M								6001	2525	3502
M								6056	4032	3508
M								6089	5502	6087
M								6091	5547	6089
M								6093	5550	6503
M								6509	5558	

Award	Energy		Sustainable Resource		Future Sustainability	
	Middle	High		Middle	High	
1	5540	3058		5562	6059	
2	5562	6511		5006	6083	
3	4011	6020		5540	6020	
M	5508	3080		4011	3038	
M		6031		5027	3080	
M		6083		5041	6012	
M				5047	6031	
M				5508	6056	
M				5525	6093	
M				5535	6513	
M						
M						
M						
M						
M						

Beyond CSF	
I-SW	GENIUS
3053	3072
3058	6083
6059	6089
	6511

ISEF	
Sponsor	Project
CSF	3027
CSF	3086
CSF	6050
CSF	6078
Alexion	3064
USC	6059

UTC		CSTA	CASE	QU		Engineering	
Middle	High	Middle	High	Middle	High	Middle	High
4042	6007	2513	3027	2504	3078	5006	3039
5006	6009	5516	6050			5549	6020
5523	6013					5562	6050
	6045						6059
	6066						

STATS PLUS

Projects

Project Category	JrTm	7th	8th	Sr	SrTm	Total	%
Life Sciences	20	31	38	89	14	192	43%
Physical Sciences	44	53	58	86	15	256	57%
Total	64	84	96	175	29	448	
Percent	14%	19%	21%	39%	6%		100%

Project Grade	7	8	9	10	11	12	Total
Life Sciences	39	50	10	23	34	36	192
Physical Sciences	70	85	14	28	29	30	256
Total	109	135	24	51	63	66	448
Percent	24%	30%	5%	11%	14%	15%	100%

Project Gender	7	8	9	10	11	12	Total
Male	49	50	10	30	27	41	207
Female	59	85	13	21	36	25	239
Not Given	1		1				2
Total	109	135	24	51	63	66	448

Students

Student Category	JrTm	7th	8th	Sr	SrTm	Total	%
Life Sciences	42	31	38	89	34	234	42%
Physical Sciences	90	53	58	86	36	323	58%
Total	132	84	96	175	70	557	
Percent	24%	15%	17%	31%	13%		100%

Student Grade	7	8	9	10	11	12	Total
Life Sciences	47	64	12	33	39	39	234
Physical Sciences	90	111	22	32	36	32	323
Total	137	175	34	65	75	71	557
Percent	25%	31%	6%	12%	13%	13%	100%

Student Gender	7	8	9	10	11	12	Total
Male	65	62	13	41	34	45	260
Female	71	113	20	24	41	26	295
Not Given	1		1				2
Total	137	175	34	65	75	71	557

Summary

Category	Students			Student Gender			Schools	
	Jr	Sr	Total	Male	Fem	Total	Jr	Sr
Life Sciences	111	123	234	88	146	234	43	38
Physical Sciences	201	122	323	172	149	321	63	34
Total	312	245	557	260	295	555	69	48
Percent	56%	44%		47%	53%		Not to be totaled	

Category	Projects			Individual Projects			Team Projects		
	Jr	Sr	Total	Jr	Sr	Total	Jr	Sr	Total
Life Sciences	89	103	192	69	89	158	20	14	34
Physical Sciences	155	101	256	111	86	197	44	15	59
Total	244	204	448	180	175	355	64	29	93
Percent	54%	46%		51%	49%		69%	31%	

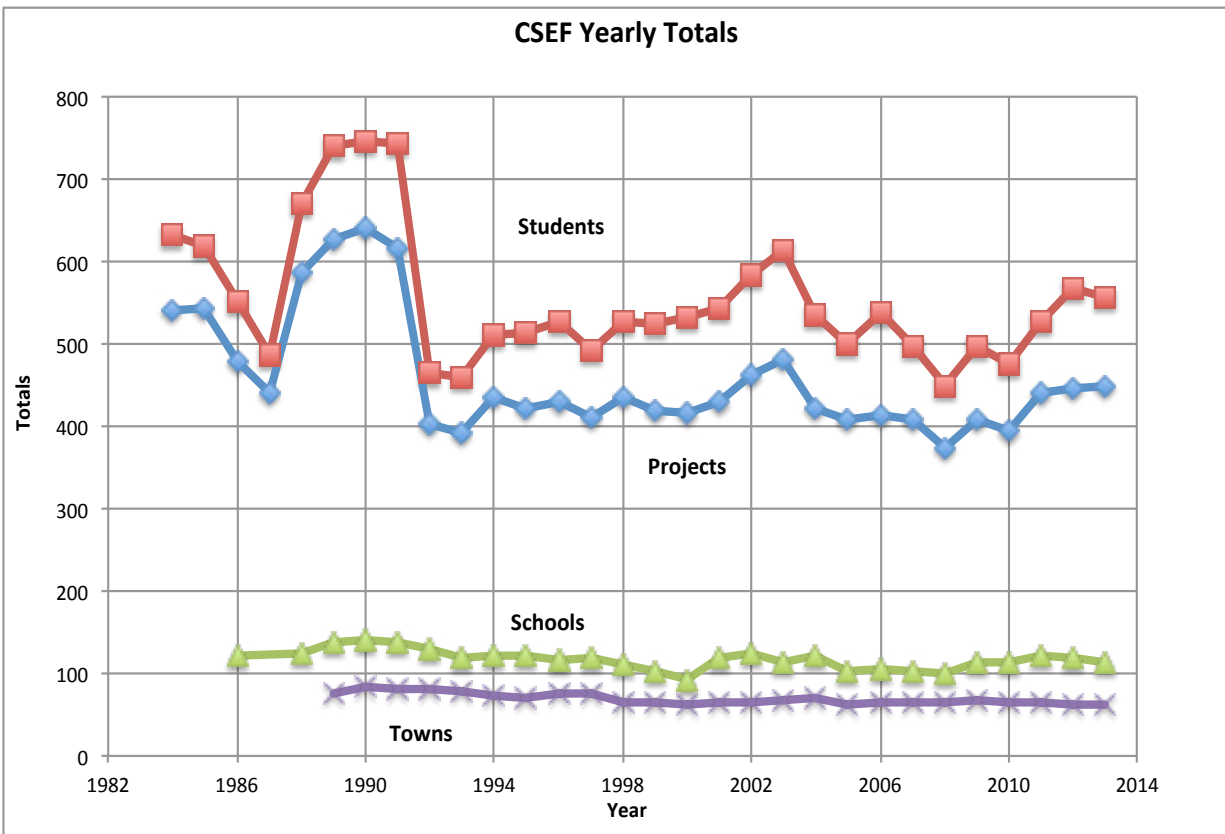
Awards

Regular = Reg + SpCat

Projects -->	Regular Awards			Special Awards			All Awards		
Category	Jr	Sr	Total	Jr	Sr	Total	Jr	Sr	Total
Life Sciences	33	37	70	24	26	50	42	46	88
Physical Sciences	47	40	87	31	33	64	59	45	104
Total	80	77	157	55	59	114	101	91	192
Percent	51%	49%		48%	52%		53%	47%	

Honors

Category	Hon	Projects				Students			
		Jr	Sr	Total	%	Jr	Sr	Total	%
Life Sciences	1	21	22	43		27	31	58	
Physical Sciences		33	27	60		43	37	80	
Sub Total		54	49	103	23%	70	68	138	25%
Life Sciences	2	33	44	77		41	49	90	
Physical Sciences		63	40	103		82	46	128	
Sub Total		96	84	180	40%	123	95	218	39%
Life Sciences	3	35	37	72		43	43	86	
Physical Sciences		59	34	93		76	39	115	
Sub Total		94	71	165	37%	119	82	201	36%
Total				448				557	



Graph Note (also see pages 58 and 59) -
 1988 - Junior Individuals (LJ, PJ) were separated into L7, L8 and P7, P8 to reduce size of categories for judging process.
 1991- Senior Teams (LST, PST) were added to the fair categories.
 1992 - Maximum reservations for middle schools was changed from 6 to 3 projects per school.
 1993 - Maximum reservations for middle schools was changed to 4 projects per school by request of teachers.

General Data Totals by Year

Year	Location	Proj	Stu	Sch	TwN
1984	University of Connecticut, Storrs	540	634	----	---
1985	Quinnipiac College, Hamden	544	619	----	---
1986	Quinnipiac College, Hamden	478	552	121	---
1987	Connecticut College, New London	441	487	----	---
1988	Connecticut College, New London	587	671	124	---
1989	Trinity College, Hartford	627	740	138	75
1990	Trinity College, Hartford	642	746	142	85
1991	Quinnipiac College, Hamden	617	743	138	82
1992	Quinnipiac College, Hamden	403	465	130	81
1993	U.S. Coast Guard Academy, New London	393	461	119	78
1994	U.S. Coast Guard Academy, New London	435	511	123	72
1995	University of Connecticut, Storrs	421	513	121	70
1996	Connecticut College, New London	430	527	116	77
1997	Connecticut College, New London	410	491	119	75
1998	Quinnipiac College, Hamden	435	527	110	64
1999	Quinnipiac College, Hamden	419	525	102	65
2000	Quinnipiac College, Hamden	416	533	93	61
2001	Quinnipiac University, Hamden	430	543	118	65
2002	Quinnipiac University, Hamden	463	583	124	64
2003	Quinnipiac University, Hamden	482	613	114	68
2004	Quinnipiac University, Hamden	421	536	121	70
2005	Quinnipiac University, Hamden	407	501	103	63
2006	Quinnipiac University, Hamden	415	538	105	66
2007	Quinnipiac University, Hamden	407	498	103	65
2008	Quinnipiac University, Hamden	374	450	101	64
2009	Quinnipiac University, Hamden	409	498	114	68
2010	Quinnipiac University, Hamden	395	476	114	66
2011	Quinnipiac University, Hamden	442	526	122	66
2012	Quinnipiac University, Hamden	446	568	120	61
2013	Quinnipiac University, Hamden	448	557	113	61

Project Category Totals by Year

Year	LT	L7	LJ	L8	LS	LST	PT	P7	PJ	P8	PS	PST
1984	58	-	137	-	74	--	36	-	162	-	73	--
1985	41	-	155	-	68	--	34	-	175	-	71	--
1986	36	-	125	-	60	--	38	-	152	-	67	--
1987	26	-	<u>136</u>	-	63	--	20	-	<u>157</u>	-	39	--
1988	37	70		89	47	--	47	94		144	59	--
1989	56	76		93	64	--	57	91		121	69	--
1990	63	105		89	83	--	41	78		102	81	--
1991	56	80		87	75	6	56	67		110	74	6
1992	32	35		60	79	7	23	45		60	62	0
1993	37	53		58	47	4	23	45		74	49	3
1994	31	40		70	64	14	25	49		88	51	3
1995	34	46		57	60	11	37	53		68	50	5
1996	40	42		64	53	14	37	44		76	54	6
1997	35	51		49	60	11	32	41		80	49	2
1998	35	58		61	56	15	30	58		54	58	10
1999	40	46		39	63	18	39	49		63	58	4
2000	46	46		44	62	11	43	42		59	50	13
2001	36	47		56	78	7	54	38		56	45	13
2002	43	44		63	74	27	36	47		59	58	12
2003	39	54		57	59	32	42	44		78	64	13
2004	32	40		44	67	16	42	38		65	58	19
2005	21	35		48	54	24	35	51		72	56	11
2006	22	25		46	48	29	33	47		76	63	26
2007	20	38		28	66	16	38	48		65	76	12
2008	19	38		46	59	29	14	47		51	61	10
2009	24	40		35	83	18	27	53		44	69	16
2010	19	30		36	75	16	23	52		61	65	18
2011	22	31		42	85	11	25	60		62	86	18
2012	27	34		43	92	20	34	44		54	74	24
2013	20	31		38	89	14	44	53		58	86	15

STATS PLUS

Town	School	Type, No Reg, Path & UC	Reserved		Registered		Entered			
			J1	S1	J2	S2	J3	S3	P3	St3
Project Type: 2 = High or High/ Middle School, 1 = Middle School Only										
Avon	Talcott Mountain Academy	1 - - -	6	0	6	-	5	-	5	6
Bethany	Amity Reg Middle School, Bethany Campus	1 - - -	6	0	6	-	3	-	3	4
Bethel	Bethel High School	2 - - -	0	16	-	14	-	11	11	11
Bethel	Bethel Middle School	1 - - -	6	0	3	-	3	-	3	3
Bethel	St. Mary School	1 - - -	6	0	6	-	6	-	6	6
Bozrah	Fields Memorial School	1 - - -	4	0	4	-	4	-	4	4
Brewster	Brewster High School	2 - - -	0	12	-	7	-	3	3	3
Brewster	H. H. Wells Middle School	1 - - -	4	0	4	-	4	-	4	5
Bridgeport	Bridgeport Public Schools	2 - bp x	15	20	-	-	-	-	0	-
Bridgeport	Bridgeport Regional Aquaculture Center	2 x bp x	0	0	-	8	-	8	8	9
Bridgeport	Central High School	2 x bp x	0	0	-	2	-	2	2	3
Bridgeport	Central Magnet High School	2 x bp x	0	0	-	1	-	1	1	2
Bridgeport	Cesar A. Batalla School	1 x bp x	0	0	5	-	5	-	5	8
Bridgeport	Columbus School	1 x bp x	0	0	-	-	-	-	0	-
Bridgeport	High Horizons Magnet School	1 x bp x	0	0	2	-	2	-	2	2
Bridgeport	Interdistrict Discovery Magnet School	1 x bp x	0	0	2	-	2	-	2	2
Bridgeport	John Winthrop School	1 x bp x	0	0	1	-	1	-	1	1
Bridgeport	Multicultural Magnet School	1 x bp x	0	0	1	-	1	-	1	1
Bridgeport	Park City Magnet School	1 x bp x	0	0	-	-	-	-	0	-
Bridgeport	Park City Prep Charter School	1 - - x	8	0	8	-	8	-	8	11
Bridgeport	Six to Six Magnet School	1 - - x	2	0	2	-	2	-	2	2
Bridgeport	Waltersville School	1 x bp x	0	0	1	-	-	-	0	-
Bridgeport	Warren Harding High School	2 x bp x	0	0	-	-	-	-	0	-
Cheshire	St. Bridget School	1 - - -	2	0	1	-	1	-	1	1
Danbury	Broadview Middle School	1 - - x	6	0	6	-	6	-	6	12
Danbury	Danbury High School	2 - - x	0	12	-	2	-	2	2	2
Danbury	Rogers Park Middle School	1 - - x	6	0	-	-	-	-	0	-
Danbury	St. Gregory The Great School	1 - - -	8	0	8	-	8	-	8	14
Danbury	St. Joseph School	1 - - -	8	0	8	-	8	-	8	9
Danbury	St. Peter-Sacred Heart School	1 - - -	4	0	2	-	1	-	1	1
Darien	Darien High School	2 - - -	0	9	-	8	-	8	8	8
East Granby	East Granby Middle School	1 - - -	6	0	6	-	6	-	6	6
East Hartford	CT Intl Baccalaureate Academy	2 - - x	0	4	-	3	-	1	1	3
East Hartford	East Hartford High School	2 - - x	0	5	-	5	-	4	4	4
East Haven	East Haven Academy	1 - - -	6	0	6	-	6	-	6	6
Fairfield	Fairfield College Preparatory School	2 - - -	0	3	-	3	-	1	1	1
Fairfield	Fairfield Warde High School	2 - - -	0	3	-	2	-	2	2	3
Fairfield	Our Lady of Assumption School	1 - - -	4	0	4	-	4	-	4	4
Fairfield	Roger Ludlowe Middle School	1 - - -	6	0	3	-	2	-	2	4
Fairfield	St. Thomas Aquinas School	1 - - 3	0	-	-	-	-	0	-	-
Fairfield	Tomlinson Middle School	1 - - -	6	0	6	-	6	-	6	7
Farmington	Miss Porter's School	2 - - -	0	1	-	1	-	1	1	2
Fishers Island	Fishers Island School	2 - - -	0	8	-	6	-	6	6	6
Glastonbury	Glastonbury High School	2 - - -	0	16	-	13	-	11	11	11
Glastonbury	Smith Middle School	1 - - -	4	0	2	-	2	-	2	2
Greens Farms	Greens Farms Academy	2 - - -	6	5	3	5	2	3	5	5
Greenwich	Brunswick School	2 - - -	0	12	-	9	-	9	9	15
Greenwich	Central Middle School	1 - - -	6	0	4	-	3	-	3	3
Greenwich	Convent of the Sacred Heart School	2 - - -	0	6	-	-	-	-	0	-
Greenwich	Greenwich Academy	2 - - -	2	2	-	1	-	-	0	-
Greenwich	Greenwich High School	2 - - -	0	16	-	17	-	17	17	17
Groton	Sacred Heart School	1 - - -	8	0	8	-	7	-	7	7
Guilford	E.C. Adams Middle School	1 - - -	5	0	5	-	5	-	5	9
Hamden	Hamden High School	2 - - -	0	4	-	4	-	2	2	2
Hamden	Hamden Middle School	1 - - -	6	0	6	-	6	-	6	8
Hamden	Sacred Heart Academy	2 - - -	0	11	-	11	-	11	11	11
Hartford	Academy of Aerospace and Engineering	2 - - x	0	6	-	2	-	1	1	1
Hartford	Classical Magnet School	2 - - x	3	3	3	2	3	1	4	5
Hartford	Greater Hartford Academy of Math & Science	2 - - x	0	6	-	2	-	2	2	4
Hartford	Hartford Magnet Trinity College Academy	1 - - x	4	0	4	-	4	-	4	4
Hartford	SS. Cyril and Methodius School	1 - - -	4	0	4	-	4	-	4	4

School Tracking

Town	School	Type, No Reg, Path & UC	Reserved		Registered		Entered			
			J1	S1	J2	S2	J3	S3	P3	St3
Project Type: 2 = High or High/ Middle School, 1 = Middle School Only										
Hartford	Two Rivers Magnet High School	2 - -- x	0	4	-	4	-	4	4	4
Hebron	RHAM High School	2 - -- -	0	3	-	2	-	2	2	2
Kensington	St. Paul School	1 - -- -	4	0	3	-	3	-	3	3
Madison	Daniel Hand High School	2 - -- -	0	1	-	1	-	1	1	1
Madison	Our Lady of Mercy School	1 - -- -	4	0	4	-	4	-	4	6
Madison	Walter C. Polson Middle School	1 - -- -	2	0	2	-	1	-	1	1
Manchester	East Catholic High School	2 - -- -	0	1	-	1	-	1	1	1
Meriden	Orville H. Platt High School	2 - -- x	0	3	-	3	-	3	3	8
Middletown	Xavier High School	2 - -- -	0	1	-	1	-	1	1	3
Milford	St. Gabriel School	1 - -- -	6	0	5	-	5	-	5	5
New Britain	Pope John Paul II Catholic School	1 - -- -	2	0	2	-	2	-	2	2
New Britain	Sacred Heart School	1 - -- -	4	0	3	-	2	-	2	2
New Canaan	St. Aloysius School	1 - -- -	4	0	2	-	2	-	2	3
New Haven	Betsy Ross Arts Magnet School	1 - -- x	4	0	4	-	4	-	4	4
New Haven	Engineering & Science University Magnet Sch	1 - -- x	1	0	1	-	1	-	1	1
New Haven	Hill Regional Career High School	2 - -- x	0	1	-	1	-	1	1	2
New Haven	New Haven Academy	2 - -- x	0	1	-	1	-	-	0	-
New Haven	St. Aedan- St. Brendan School	1 - -- -	5	0	5	-	5	-	5	5
New Haven	Worthington Hooker Middle School	1 - -- x	4	0	4	-	4	-	4	6
New London	Science & Technology Magnet High School	2 - -- x	0	5	-	2	-	1	1	1
New Milford	New Milford High School	2 - -- -	0	12	-	7	-	6	6	6
Newington	St. Mary School	1 - -- -	4	0	2	-	1	-	1	1
Newtown	Newtown Middle School	1 - -- -	4	0	4	-	4	-	4	7
Newtown	St. Rose of Lima School	1 - -- -	8	0	8	-	6	-	6	6
North Stonington	Wheeler Middle School	1 - -- -	1	0	1	-	-	-	0	-
Norwalk	All Saints Catholic School	1 - -- -	8	0	8	-	8	-	8	12
Norwalk	Brien McMahon High School	2 x np x	0	0	-	2	-	1	1	1
Norwalk	Norwalk High School	2 x np x	0	0	-	1	-	1	1	2
Norwalk	Norwalk Public Schools	2 - np x	4	4	-	-	-	-	0	-
Norwalk	Ponus Ridge Middle School	1 x np x	0	0	2	-	2	-	2	3
Norwalk	Roton Middle School	1 x np x	0	0	1	-	1	-	1	2
Norwalk	West Rocks Middle School	1 x np x	0	0	1	-	1	-	1	2
Norwich	Norwich Free Academy	2 - -- -	0	3	-	3	-	2	2	2
Orange	Amity Reg Middle School, Orange Campus	1 - -- -	6	0	-	-	-	-	0	-
Orange	Southern CT Hebrew Academy	1 - -- -	6	0	6	-	6	-	6	9
Oxford	Oxford High School	2 - -- -	0	8	-	6	-	6	6	6
Oxford	Ward Home School	2 - -- -	0	0	-	-	-	-	0	-
Pawcatuck	St. Michael School	1 - -- -	4	0	4	-	4	-	4	5
Plantsville	John F. Kennedy Middle School	1 - -- -	4	0	4	-	4	-	4	8
Putnam	Putnam Science Academy	2 - -- -	0	12	-	4	-	4	4	10
Redding	Joel Barlow High School	2 - -- -	0	10	-	10	-	9	9	9
Ridgefield	Ridgefield High School	2 - -- -	0	1	-	1	-	1	1	1
Sandy Hook	Newtown High School	2 - -- -	0	3	-	1	-	1	1	1
Shelton	Shelton High School	2 - -- -	0	8	-	8	-	8	8	15
Southington	Joseph A. DePaolo Middle School	1 - -- -	4	0	3	-	3	-	3	5
Southington	St. Thomas School	1 - -- -	4	0	4	-	4	-	4	4
Stafford Springs	St. Edward School	1 - -- -	3	0	3	-	3	-	3	3
Stamford	Academy of Information Technology & Eng	2 - -- x	0	2	-	-	-	-	0	-
Stamford	Bi-Cultural Day School	1 - -- -	3	0	3	-	3	-	3	8
Stamford	Trailblazers Academy	1 - -- x	5	0	-	-	-	-	0	-
Storrs	E.O. Smith High School	2 - -- -	0	5	-	4	-	3	3	3
Stratford	Harry B. Flood Middle School	1 - -- -	6	0	1	-	1	-	1	1
Stratford	St. Mark School	1 - -- -	6	0	5	-	5	-	5	5
Suffield	Suffield High School	2 - -- -	0	12	-	6	-	6	6	6
Tolland	Stonewall Academy	1 - -- -	1	0	1	-	1	-	1	1
Trumbull	Christian Heritage School	2 - -- -	3	3	3	3	3	3	6	7
Trumbull	St. Catherine of Siena School	1 - -- -	2	0	2	-	2	-	2	2
Wallingford	Choate Rosemary Hall	2 - -- -	0	4	-	3	-	2	2	2
Watertown	The Taft School	2 - -- -	0	3	-	-	-	-	0	-
West Hartford	Solomon Schechter Day School	1 - -- -	3	0	3	-	3	-	3	3
West Hartford	St. Brigid School	1 - -- -	4	0	2	-	2	-	2	3

Town	School	Type, No Reg, Path & UC	Reserved		Registered		Entered			
			J1	S1	J2	S2	J3	S3	P3	St3
Project Type: 2 = High or High/ Middle School, 1 = Middle School Only										
West Hartford	St. Timothy Middle School	1 - -- -	4	0	4	-	3	-	3	4
Westport	Southern CT Invitational Sci & Eng Fair	2 - ci -	0	2	-	2	-	2	2	3
Westport	Staples High School	2 - -- -	0	12	-	9	-	9	9	10
Wilton	Middlebrook School	1 - -- -	4	0	4	-	4	-	4	5
Windsor	Madina Academy	1 - -- -	6	0	4	-	4	-	4	6
Windsor	Madina Academy Upper School	2 - -- -	0	7	-	3	-	3	3	4
Windsor	St. Gabriel School	1 - -- -	4	0	3	-	3	-	3	3
Woodbridge	Amity Regional High School	2 - -- -	0	16	-	16	-	16	16	17
Schools = 130			321	327	261	233	244	204	448	557

Abbreviations: bp = Bridgeport Public, ci = SCISEF, np = Norwalk Public, x = no registration,
 J, S, P = Junior, Senior, and Jr + Sr Projects, St = Students

School Summary for 2013

Total Contacts = 130 Schools
 (Unregistered schools are included)

Registered Schools = 113
 Regular Schools = 111
 Home Schools = 2

Non-Registered Schools = 17
 Bridgeport Public Schools = 12
 Norwalk Public Schools = 5

	<u>Sch</u>	<u>Proj</u>	<u>Stu</u>
Reserved	112	648	----
Registered	117	494	608
Entered	113	448	557

Returning Students

Yrs	Student	Hometown	Grade	School	SchTown	Honors	
5 Years - 2 Students							
5	Carle	Remington	Norwich	12	Norwich Free Academy	Norwich	2
5	Oei	Bridget	Hebron	11	East Catholic High School	Manchester	1
4 Years - 5 Students							
4	Ahmed	Aasiya M.	Windsor	10	Madina Academy Upper School	Windsor	2
4	Chowdhary	Kaitavjeet	Glastonbury	12	Glastonbury High School	Glastonbury	1
4	Kelly	Olivia	Shelton	11	Sacred Heart Academy	Hamden	2
4	Kerr	Janine	Danbury	10	Danbury High School	Danbury	1
4	Roychoudhury	Shayan	Madison	10	Daniel Hand High School	Madison	2
3 Years - 15 Students							
3	Avci	Selman	Middletown	11	Putnam Science Academy	Putnam	1
3	Baczyk	Emily	Avon	12	Choate Rosemary Hall	Wallingford	1
3	Chanyarakskul	Anna	Bridgeport	9	Central Magnet High School	Bridgeport	2
3	Cirelli	Lia	Redding	11	Joel Barlow High School	Redding	2
3	Fox	Evan	Woodbridge	12	Amity Regional High School	Woodbridge	2
3	Gulati	Gazal	Fairfield	10	Fairfield Warde High School	Fairfield	2
3	Gulati	Sagar	Fairfield	10	Fairfield Warde High School	Fairfield	2
3	Hansel	Paul	Old Greenwich	9	Greenwich High School	Greenwich	2
3	Henck	Jordan	Woodbridge	12	Amity Regional High School	Woodbridge	3
3	Hyde	Jessica	Ashford	12	E. O. Smith High School	Storrs	2
3	Jiang	Christina	Hamden	12	Sacred Heart Academy	Hamden	2
3	Mahmood	Rigel	Shelton	11	Shelton High School	Shelton	2
3	Myrzatay	Almas	Putnam	11	Putnam Science Academy	Putnam	1
3	Provost	Connor	Bozrah	9	Norwich Free Academy	Norwich	1
3	Zhuang	Shiyu	Orange	12	Amity Regional High School	Woodbridge	1
2 Years - 91 Students							
2	Adler	Kim	Westport	12	Staples High School	Westport	1
2	Adler	Michael	Westport	12	Staples High School	Westport	2
2	Agarwal	Aakshi	Hamden	8	Hamden Middle School	Hamden	1
2	Agarwal	Ank	Hamden	10	Hamden High School	Hamden	2
2	Ashraf	Rayyan	Windsor	10	Madina Academy Upper School	Windsor	1
2	Ayer	Ross	Southington	8	St. Thomas School	Southington	2
2	Berger	Jolie	East Granby	8	East Granby Middle School	East Granby	2
2	Bernstein	Claudia	Westport	8	Greens Farms Academy	Greens Farms	1
2	Bhat	Satish	Orange	12	Amity Regional High School	Woodbridge	3
2	Bierut	Devon	Windsor	8	Talcott Mountain Academy	Avon	3
2	Bodas	Vikram	Greenwich	11	Brunswick School	Greenwich	1
2	Boisvert	Alessandra	Shelton	12	Shelton High School	Shelton	3
2	Bramante	Sofia	Fairfield	11	Fairfield Warde High School	Fairfield	1
2	Brigham	Brian	Orange	8	Betsy Ross Arts Magnet School	New Haven	1
2	Brown	Rachael	Guilford	7	E. C. Adams Middle School	Guilford	2
2	Caroline	Esther	New Haven	8	Southern Connecticut Hebrew Academy	Orange	1
2	Catalbasoglu	Hacibey	Putnam	10	Putnam Science Academy	Putnam	1
2	Cersonsky	Tess	Oxford	12	Sacred Heart Academy	Hamden	2
2	Choudhury	Shakeel	Bloomfield	10	Madina Academy Upper School	Windsor	1
2	Chris	Mario	Storrs	12	Xavier High School	Middletown	1
2	Cirone	Lauren	Newtown	8	St. Rose of Lima School	Newtown	2
2	Curtis	Jamie	Redding	11	Joel Barlow High School	Redding	3
2	ElSherbini	Osama	Windsor	8	Madina Academy Middle School	Windsor	1
2	Eygoren	Mehmet	Putnam	10	Putnam Science Academy	Putnam	1
2	Fiedler	Rachel	Newington	8	Solomon Schechter Day School	West Hartford	3
2	Gagliano	Clare	Madison	8	Our Lady of Mercy School	Madison	2
2	Galinsky	Andrew	S. Glastonbury	12	Glastonbury High School	Glastonbury	3
2	Gartrell	Emily	Bloomfield	8	St. Brigid School	West Hartford	3
2	Giebisch	Daniel	Woodbridge	10	Amity Regional High School	Woodbridge	1
2	Gilbert	Amira	Hartford	8	SS. Cyril and Methodius School	Hartford	3
2	Godley	Benjamin	Groton	8	Sacred Heart School	Groton	3
2	Gombos	Peter	Easton	10	Joel Barlow High School	Redding	3

Yrs	Student	Hometown	Grade	School	SchTown	Honors	
2	Haddad	Martha	Danbury	8	St. Joseph School	Danbury	1
2	Herrick	Grace	Newtown	8	St. Rose of Lima School	Newtown	1
2	Hodakov	Devora	New Haven	8	Southern Connecticut Hebrew Academy	Orange	1
2	Hora	Kashish	Glastonbury	12	Glastonbury High School	Glastonbury	2
2	Johnson	Kayla	Hamden	8	Hamden Middle School	Hamden	2
2	Kelly	Abigail	Shelton	8	St. Catherine of Siena School	Trumbull	1
2	Kelly	Jonathan	East Granby	8	East Granby Middle School	East Granby	2
2	Khan	Aden	Windsor	10	Madina Academy Upper School	Windsor	2
2	Khan	Ehsan	Bethany	12	SCISEF	Westport	2
2	Kharbouch	Karim	Bridgeport	12	Bridgeport Regional Aquaculture Center	Bridgeport	1
2	Leary	Sean	Norwalk	8	All Saints Catholic School	Norwalk	3
2	Liang	Brian	Bethany	12	Amity Regional High School	Woodbridge	2
2	Lipsker	Batsheva	Stamford	8	Southern Connecticut Hebrew Academy	Orange	1
2	Lopez	Johnny	Bridgeport	8	Cesar A. Batalla School	Bridgeport	2
2	Lopreiato	Elizabeth	New Britain	8	St. Paul School	Kensington	2
2	Lynders	Elaine	Guilford	8	Our Lady of Mercy School	Madison	2
2	Maddalena	Alexa	Southington	8	John F. Kennedy Middle School	Plantsville	1
2	Madfes	Mallory	Greenwich	12	Greenwich High School	Greenwich	1
2	Mannan	Lamisa	Orange	11	SCISEF	Westport	1
2	Manokhin	Antony	Greenwich	11	Greenwich High School	Greenwich	1
2	Marmar-Adams	Abigail	Colebrook	8	Talcott Mountain Academy	Avon	1
2	Mayfield	Matthew	Greenwich	12	Brunswick School	Greenwich	1
2	McCarthy	Katie	North Stonington	12	Fishers Island School	Fishers Island	2
2	McDonough	Spencer	Greenwich	11	Brunswick School	Greenwich	1
2	Merrill	Anne	Old Greenwich	11	Greenwich High School	Greenwich	1
2	Mollenthel	John	Danbury	8	St. Joseph School	Danbury	2
2	Moura	Jonathan	Bridgeport	8	Park City Prep Charter School	Bridgeport	2
2	Muller	Briana	Berlin	8	Sacred Heart School	New Britain	3
2	Nieves	Stephanie	Meriden	9	O. H. Platt High School	Meriden	3
2	Nolan	Timothy	Willington	11	E. O. Smith High School	Storrs	3
2	O'Connor	Emily	Bozrah	8	Fields Memorial School	Bozrah	2
2	Orlando	Annabelle	Waterford	12	Fishers Island School	Fishers Island	3
2	Parmanand	Amrit	Ellington	8	Hartford Magnet Trinity College Academy	Hartford	2
2	Parris	James	Brookfield	8	St. Joseph School	Danbury	1
2	Phillips	Megan	Madison	8	Our Lady of Mercy School	Madison	2
2	Piekarski	Chana	Hamden	8	Southern Connecticut Hebrew Academy	Orange	1
2	Poe	Virginia	Groton	8	Sacred Heart School	Groton	3
2	Ramachandran	Ashish	Stamford	11	Brunswick School	Greenwich	1
2	Rieke	Shira	Old Greenwich	11	Greenwich High School	Greenwich	1
2	Robertson	Megan	Stratford	8	St. Mark School	Stratford	1
2	Roychoudhury	Ankita	Madison	8	Walter C. Polson Middle School	Madison	1
2	Santiago	Kelsie	Bridgeport	8	Cesar A. Batalla School	Bridgeport	3
2	Satonick	Peter	Orange	12	Amity Regional High School	Woodbridge	3
2	Sciallo	Alexandra	Stratford	8	St. Mark School	Stratford	1
2	Sherman	Jeremy	Westport	12	Staples High School	Westport	2
2	Siveyer	Jonathan	Monroe	8	Six to Six Magnet School	Bridgeport	1
2	Skaller	Samantha	Brewster	12	Brewster High School	Brewster	2
2	Solder	Alec	Westport	11	Staples High School	Westport	1
2	Stafko	Kimberly	Southington	8	John F. Kennedy Middle School	Plantsville	1
2	Tavarez	Joel	Hartford	8	SS. Cyril and Methodius School	Hartford	3
2	Teerlinck	Samuel	Monson	8	St. Edward School	Stafford Springs	2
2	Thomas	Justin	Hamden	11	Hamden High School	Hamden	2
2	Tranfo	Thomas	Greenwich	11	Brunswick School	Greenwich	3
2	Vora	Ninad	Glastonbury	8	Smith Middle School	Glastonbury	2
2	Weeks	Russell	Portland	12	Academy of Aerospace and Engineering	Hartford	2
2	Weldon	Holly	South Windham	8	Classical Magnet School	Hartford	3
2	Wrótniak	Sara	Pawcatuck	8	St. Michael School	Pawcatuck	1
2	Yu	Xiaofei	Shelton	12	Christian Heritage School	Trumbull	1
2	Zhao	Helen	Woodbridge	12	Amity Regional High School	Woodbridge	2

Total Returns = 113 Students

Beyond Connecticut Science & Engineering Fair

Many projects have won trips to other competitions. The following pages show some of those projects with their CSF awards and abstracts.

Intel ISEF

CSEF Life Sciences

Kaitavjeet Chowdhary

Emily Baczyk

CSEF Physical Sciences

Maxmillian Minichetti

Rebecca Murray

CSEF Special Categories

Alexion Biotechnology - Mallory Madfes

Urban School Challenge - Karim Kharbouch

I-SWEEEP

Zheni Gushe

Andrew Ma

Karim Kharbouch*

GENIUS

Janine Kerr

Travis Anderson*

Julia Elstein

Daniel Giebisch and Noah Gallant*

* I-SWEEEP and GENIUS winners unable to attend due to various scheduling conflicts.

I-SWEEEP Competitors from CSEF

Zheni Gushe - 3053

Andrew Ma - 3058

Aasiya Ahmed - 3080

GENIUS Olympiad Competitors from CSEF

Janine Kerr - 3072

Julia Elstein - 6089

Connor Provost - 6056

2013 Intel ISEF

May 12-17, 2013

Phoenix, Arizona

2013 I-SWEEEP

May 9-12, 2013

Houston, Texas

2013 Genius Olympiad

June 16-21, 2013

Oswego, New York

Intel International Science & Engineering Fair (ISEF) Competitors

CSEF Life Sciences

3027 LS Morphogenesis of and Chromosome Segregation in Escherichia coli Branching Mutants

Glastonbury, Glastonbury High School, Teacher - Ms. Diane Pintavalle

Kaitavjeet Chowdhary, Glastonbury 12

Awards: Honors = 1

- Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High- \$500 & trophy, Trip to compete at Intel ISEF
- H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Life Sciences Senior - \$1,000 cash, Solid Silver Medal of Excellence, invite to CASE Annual Mtg
- Biophysical Society --- Biophysics Award- \$100
- University of New Haven 11-12th Grade Awards in Engineering & Science --- \$100 for Top 11th or 12th Grade Project in Microbiology

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

Wallingford, Choate Rosemary Hall, Teacher - Phoebe Zarnetske

Emily Baczyk, Avon 12

Awards: Honors = 1

- 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

Alexion Biotechnology

3064 LS Promotion of Wound Healing via a Novel Hydrophilic Dressing

Greenwich, Greenwich High School, Teacher - Andy Bramante

Mallory Madfes, Greenwich 12

Awards: Honors = 1

- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
- Alexion Biotechnology Awards --- 1st Place- Biotechnology Senior High- Trip to compete at Intel ISEF, \$500 & trophy,

Intel International Science & Engineering Fair (ISEF) Competitors
CSEF Physical Sciences

6050 PS Nanostructured C-Phycocyanin Enhanced Hematite Thin-Film Photoanode Co-Sensitized with Plural Organic Dyes to Yield a Highly Efficient Solar Cell

Greenwich, Greenwich High School, Teacher - Andrew Bramante

Maxmillian Minichetti, Greenwich 10

Awards: Honors = 1

- Dominion Millstone Power Station Physical Sciences Awards --- 1st Place - Physical Sciences Senior High Individual - \$500 & trophy, trip to compete at Intel ISEF
- UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Physical Sciences Senior - \$1,000 cash, Solid Silver Medal of Excellence, invite to CASE Annual Mtg
- Arthur Mensing Award --- \$500 cash award for excellence in the physical sciences

6078 PS Laser-induced Propulsion of Anticancer-Doxorubicin Using a Combined Optical Tweezing and Radiation-induced Interface Deformation

Greenwich, Greenwich High School, Teacher - Andrew Bramante

Rebecca Murray, Greenwich 11

Awards: Honors = 1

- Dominion Millstone Power Station Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & trophy, trip to compete at Intel ISEF
- Coherent, Inc. Richard Hart Award for Excellence in Photonics --- \$300 cash, plaque, invitation to lunch and tour Coherent factory

Urban School Challenge

6059 PS Optimization of the Cellulose Algae Salt Battery

Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Mr. Kirk Shadle

Karim Kharbouch, Bridgeport 12

Awards: Honors = 1

- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- Urban School Challenge Awards with support from CASE --- 1st Place High School - \$500 and Trophy, Medallion and trip to compete at Intel Int. Sci. & Eng. Fair
- EnergizeCT/eesmarts Future Sustainability Awards --- 1st Place High School - \$800 Cash, Trophy, and Trip to Compete I-SWEEEP, Houston
- UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- University of New Haven 11-12th Grade Awards in Engineering & Science --- \$100 for Top 11th or 12th Grade Project in Engineering: Materials and Bioengineering

ISEF Abstracts - CSEF Life Sciences**NAME: Kaitavjeet Chowdhary**

SCHOOL: Glastonbury High School, Glastonbury

TEACHER/MENTOR: Ms. Diane Pintavalle

TITLE: Morphogenesis of and Chromosome Segregation in Escherichia coli Branching Mutants

The cell shape of any bacterium is essential to its function. Recent studies have shown that deletion of a group of peptidoglycan-synthetic enzymes called Penicillin Binding Proteins (PBPs) leads to a unique, branching morphology in *E. coli*, causing rod shaped cells to bifurcate into “Y”-shapes. The mechanisms governing the morphogenesis of these mutants, especially the role of the essential cell division protein, FtsZ, are not well understood. This study aimed to probe the morphogenesis of branching mutants, and also investigate how the process of chromosome segregation is affected. Through site-directed mutagenesis of 90 FtsZ surface amino acid residues, we isolated the 96th amino acid as the single FtsZ residue responsible for cell branching. Comparisons with branching in PBP deletion strains, and immunofluorescence microscopy of FtsZ and MreB in the FtsZ mutants, allowed us to propose a novel model pointing to the morphology being a result of the interaction of this residue with Low-Molecular-Weight PBPs to position the cytokinetic FtsZ Ring. Additionally, visualization of chromosome localization in the branching mutants through DAPI staining revealed an even pattern of segregation into both branch arms. Thus, we also proposed a model for chromosome segregation in these mutants. Ongoing and future experiments will involve mutant “rescue” experiments and more specific chromosome localization methods. Understanding the questions posed in this study and future work will provide key insight into the fundamental processes responsible for how bacterial cells control cell shape, as well as into chromosomal dynamics. Such work is promising for applications such as antibiotic drug development.

NAME: Emily Baczyk

SCHOOL: Choate Rosemary Hall, Wallingford

TEACHER/MENTOR: Phoebe Zarnetske

TITLE: A Model-Based Approach to Predicting Species' Responses to Climate Change by Characterizing Community Dynamics

My goal was to determine how a climate change-induced temperature increase of 4 °C over the next 100 years would affect the composition of ecological communities occurring along an elevational or latitudinal temperature gradient, with the goal of determining what conservation strategies may be most effective. Towards this end, I developed a novel computer-based model of a general community with three different trophic levels, representing the basal (e.g., plants), intermediate (e.g., herbivores), and top (e.g., predators) species typical of a food web. Consumptive and competitive interactions between these species were approximated with discretized difference equations. I incorporated temperature-dependence for many species- and trophic-level parameters, including conversion efficiency, handling time, and reproductive fitness. I used empirical data to inform parameter values and established theoretical models to define the relationships between species and with their environment. Various model formulations with differing community size and composition were created, reflecting the diversity observed in nature. In each case, the model was run to quasi-equilibrium under current mean annual temperature, and then subject to a 0.04 °C rise per year, over 100 years, or until communities reached a new quasi-equilibrium. I discovered the presence of strong bottom-up controls and some top-down indirect effects in the communities by examining the effects of rising temperatures and trophic vs. non-trophic interactions on the number of species extinctions, changes in community diversity, and formation of novel interactions. My results suggest that conserving plant species is key to preserving the biodiversity of a community during climate change.

ISEF Abstracts - CSEF Physical Sciences

NAME: **Maxmillian Minichetti**
SCHOOL: Greenwich High School, Greenwich
TEACHER/MENTOR: Andrew Bramante

TITLE: Optimization of a Dye Co-Sensitized Solar Cell to Assist Photo-Electrochemical Water-Splitting with a Nanostructured C-PC Enhanced Fe₂O₃ Photo-Anode

Scientists have expressed significant interest in Dye Sensitized Solar Cells (DSSCs) as an easily manufactured, inexpensive means of generating clean energy. An equally substantial interest for clean energy storage has also emerged, which can be achieved with photo-electrochemical water-splitting via Photo-Electrochemical Cells (PECs). This study seeks to optimize and investigate the performance of a TiO₂-based DSSC, enhanced by the dye co-sensitization of Nile Red (NR), Nile Blue A (NB), Rhodamine 110 (R110) and Anthocyanin (A) dyes, for the purpose of assisting an Optimized PEC that uses a C-Phycocyanin (C-PC algae extract) enhanced Fe₂O₃ photo-anode. This project culminates in the construction of a Novel Dual Solar Apparatus which can be practically applied for electricity generation and/or the storage of this energy by photo-induced water-splitting. Dye co-sensitization significantly augmented the DSSC's spectral response to UV-Vis wavelengths of incident light. The Optimized DSSC achieved a 3% solar conversion efficiency allowing for a 59% increase in output voltage and a 129% increase in output current in comparison to a conventional Anthocyanin DSSC. The efficiency of an Fe₂O₃ photo-anode was substantially enhanced by employing the C-PC light-trapping nanostructures by covalent cross-coupling (CCC) which allowed for a 13.4% increase in PEC performance, a photo-anodic voltage increase of 127%, and a photo-current improvement of 66%. Finally, the Novel Optimized Dual Solar Apparatus was able to generate hydrogen gas at a rate 57% greater than that of a Dual Solar Apparatus without a photovoltaic metal oxide anode. With additional research and innovation, the Dual Solar Apparatus can be augmented for modern-day application alongside current hydrogen fuel cells.

NAME: **Rebecca Murray**
SCHOOL: Greenwich High School, Greenwich
TEACHER/MENTOR: Andrew Bramante

TITLE: Title: Laser-induced Propulsion of Anticancer-Doxorubicin Using Low-Power Laser Optical Tweezing

The laser induced movement of molecules across a liquid-liquid interface has significant potential in changing the way medications are introduced to cells, as it causes minimal damage to the surrounding cells and doesn't require mechanical intervention. Previous methods of laser transport have required high-powered lasers and relatively durable drug molecules for transportation. This research investigates induced movement of a chemotherapy drug through the use of optical tweezers, which is created by focusing the beam of a laser to a point that can be used to trap particles. This effect can be used to move complex drug molecules across an interface without harming the molecules, and only utilizes an 8 mW He-Ne laser. Experimentation involved successfully transporting particles of the cancer drug Doxorubicin across a membrane between two immiscible liquids, from a liquid in which it is not soluble (water) into a liquid in which it is soluble (chloroform). Transportation was achieved using a simplified optical tweezers configuration, including a lower-powered laser relative to traditional setups. In 250 μ l of water, 73 ng of solid Doxorubicin were transported into 550 μ l of a neighboring chloroform layer, corresponding to the transport of 7.3×10^{16} molecules with a single illumination. Movement and subsequent presence of the Doxorubicin in the chloroform layer was confirmed using the drug's natural fluorescent properties, with detection based on 550 and 590 nm emissions with an excitation wavelength of 230 nm. Practical application would use this method to transport miniscule amounts of drug molecules across a cell membrane.

ISEF Abstracts - CSEF Special CategoriesNAME: **Mallory Madfes**

SCHOOL: Greenwich High School, Greenwich

TEACHER/MENTOR: Andy Bramante

TITLE: Promotion of Wound Healing via a Novel Hydrophilic Dressing

Prolonged length of the inflammatory phase of wound-healing increases the likelihood of infection. Recent studies, however, have pointed to the unique properties of the Fibroblast Growth Factor 10 (FGF-10) and Chondroitin Sulfate (CS) as a means to accelerate initial wound-healing processes. FGF-10 is produced naturally and is dispatched to a wound site, where CS acts to stabilize and improve its function. *Candida albicans* (CA) are fungal pathogens that are causal agents of infection in humans. CA infections have become a major health concern, where more than 15% of individuals with weakened immune systems have superficial infections of the skin or mucous membranes. Current treatments for Candidiasis are limited to the use of orally administered antimycotics that include Flucanazole (FLUC), however adverse drug reactions are of concern. This research focuses on creating an alternate path for the delivery of FLUC directly to the wound site, with simultaneous delivery of CS to promote FGF-10 function. An innovative wound dressing was created that included effective concentrations of FLUC and CS. A novel elution methodology was devised to measure time-release of these agents into an aqueous medium. Results indicate that the maximum rate of FLUC and CS elution from the wound dressing occurs in the first hour of application (127 $\mu\text{g/hr}$ & 0.62 mg/hr, respectively), where more than 60% of each active ingredient is time-released during a time that is most critical in the wound-healing process. The remaining FLUC & CS are delivered after 10 hours, after which time the dressing should be replaced.

NAME: **Karim Kharbouch**

SCHOOL: Bridgeport Regional Aquaculture Center, Bridgeport

TEACHER/MENTOR: Mr. Kirk Shadle

TITLE: Optimization of the Cellulose Algae Sodium Chloride Battery

Metal based batteries are resource dependent and environmentally harmful. Cellulose based batteries have a low manufacturing cost, flexible and completely biodegradable; however, they are limited in performance due to the terrestrial plant cellulose fiber's low surface area. It is suggested that the use of algae cellulose will improve the efficacy of the cellulose battery due the high cellulose fiber surface area. The purpose of this experiment is to develop an algae cellulose battery that has a higher energy capacity than the existing terrestrial plant cellulose batteries. *Gracilaria tikvahiae* (*Gracilaria*) and *Laminaria saccharina* (Kelp) were used to construct three types of batteries; a *Gracilaria* battery, a Kelp based and a terrestrial plant cellulose battery (control). After multiple trials, a novel technique was developed to turn the algae into unique uniform paper sheets without damaging the cellulose fibers. The battery discharge was measured in milliamps over one hour and the capacity, milliamps-hour per gram, was calculated. As the milliamp values decreased the time interval for each value increased. The Kelp battery had the longest time interval per milliamp value; 1.845 milliamps for 47 minutes. The Kelp battery had a capacity of 0.0566 milliwatt-hours per gram. The *Gracilaria* battery had 0.0358 milliwatt-hours per gram and the cellulose battery had 0.0392 milliwatt-hours per gram. The data shows that Kelp cellulose increases the efficacy of the battery by 44.4% over the terrestrial cellulose cell. When connected in a series, three Kelp cells produced 2.1 volts surpassing the voltage of a AA battery by 0.6 volts.

International Sustainable World (I-SWEEEP) Competitors

3053 LS Sustainable Enhancement of Plant Growth & Disease Reduction Using Biochar Soil Additives

Greenwich, Greenwich High School, Teacher - Andrew Bramante

Zheni Gusho, Stamford 11

Awards: Honors = 1

- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
- Environmental Sciences Awards with CACIWC --- 1st Place HS- \$500, Trophy, CACIWC gifts, Trip to Compete I-SWEEEP, Houston

3058 LS Solvent Extraction of Hydrocarbons and Hydrocarbon Derivatives from Lythrum Salicaria Seed Capsules

Greenwich, Greenwich High School, Teacher - Andrew J. Bramante

Andrew Ma, Riverside 10

Awards: Honors = 1

- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
- Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- EnergizeCT/eesmarts Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Trophy, Trip to Compete I-SWEEEP, Houston
- Alumni Botany Awards --- Alumni High School Botany Award- \$100 Cash

3080 LS A Novel Design for the Integration of a Microbial Desalination Cell in a Microbial Fuel Cell for the Production of Energy and Purification of Water

Windsor, Madina Academy Upper School, Teacher - Esslam Hassan

Aasiya Ahmed, Windsor 10

Awards: Honors = 2

- EnergizeCT/eesmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- EnergizeCT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award

Unable to compete due to scheduling conflict

6059 PS Optimization of the Cellulose Algae Salt Battery

Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Mr. Kirk Shadle

Karim Kharbouch, Bridgeport 12

Awards: Honors = 1

I-SWEEEP AbstractsNAME: **Zheni Gusho**

SCHOOL: Greenwich High School, Greenwich

TEACHER/MENTOR: Andrew Bramante

TITLE: Sustainable Enhancement of Plant Growth & Disease Reduction Using Biochar Soil Additives

Sustainable plant growth agents that reduce the effects of disease, while being ecologically friendly, are desirable. Biochar, a solid charcoal-like material that forms by the pyrolysis of biomass, is attractive as a soil additive. It sequesters biomass carbon that would otherwise naturally degrade to greenhouse gases. This research provides experimental evidence that supports Biochar as a soil additive to improve soil function, while producing a net-negative CO₂ emission. The soil fertility & disease prevention characteristics of Biochar for tomato & eggplants were investigated. Best Energies (BE) & CT Charcoal (CC) biochars were separately added to the soil of healthy tomato & eggplant seedling specimens at 15g/kg soil (LO) & 30 g/kg (HI) soil concentrations. To mimic disease conditions, a portion of both eggplant & tomato spec. were inoculated (inc.) with *Verticillium dahliae*/*Fusarium oxysporum* respectively. Biochar's ability to enhance plant growth & remediate plant disease was evaluated for healthy & inc. spec. for 1 month, using periodic growth measurements & final biomass. Healthy spec. with HI conc. of CC grew up to 21% larger for eggplants, & 38.6% larger for tomato plants. HI conc. of BE provided less growth enhancement, with 8% & 16.7% improvement for eggplant & tomato, respectively. For inc. eggplant spec., addition of either Biochar offered little/no improvement in the growth condition, but for inc. tomato spec. with HI conc. Biochar soil additive were as much as 21.9% larger than normal healthy spec., providing direct evidence for disease suppression. Headspace & liquid-phase GC analysis of the Biochars reveal that both contain C1-C6 hydrocarbons & BE contains 2.68-23.68 ppm of over 16 PAH's that adversely affects its growth enhancement ability. Increased plant growth enhancement is realized with CC that is free of PAH's.

NAME: **Andrew Ma**

SCHOOL: Greenwich High School, Greenwich

TEACHER/MENTOR: Andrew J. Bramante

TITLE: Solvent Extraction of Hydrocarbons and Hydrocarbon Derivatives from *Lythrum Salicaria* Seed Capsules

Invasive plants have the potential to be a cheaper source of biological compounds than traditional plants such as corn and sugarcane. If useful chemicals are discovered within invasive plants, the chemicals can provide an incentive for invasive plant remediation. Discovery of such compounds in *Lythrum salicaria* (Purple loosestrife) would be highly desirable as this plant is widely available and highly problematic. *Lythrum salicaria* is established throughout the continent, and annual control costs and forage losses in the United States amount to approximately \$50 million. The objective of this research is to obtain industrially applicable chemicals from *Lythrum salicaria* seed capsules using hexane solvent extraction. An energy-free process (Method 1) and an energy consuming process with grinding pretreatment and sonication during extraction (Method 2) were tested. The extract solutions were analyzed via GC-MS, and spectral data was compared with the NIST database for compound identification. The two extraction processes yielded hydrocarbons and hydrocarbon derivatives with significantly different chemical profiles. The extracted compounds in Method 1 had a carbon chain length range of C7-C29; Method 2 had a carbon chain length range of C13-C40. Due to the wide range of carbon chain lengths, different components of the extract could be used as a surrogate or additive for a variety of different fuels including gasoline, jet fuel, diesel, and kerosene. In Method 1, higher n-alkanes of carbon chain length 27 and 29 were detected. Higher n-alkanes of carbon chain length 17, 20, 28, and 40 were detected in Method 2. Such compounds could be applied as inexpensive and effective phase change materials (PCM's) for thermal energy storage. Oleamide, a potential hypnotic, was also obtained in both extraction methods. Extracted chemicals can be combusted collectively as a single biofuel mixture or separated for individual applications. Discovery of biofuel, phase change materials, and medicine in *Lythrum salicaria* provides an inexpensive pathway to obtain useful compounds, and a strong incentive for the otherwise unprofitable invasive plant removal process.

I-SWEEEP AbstractsNAME: **Aasiya Ahmed**

SCHOOL: Madina Academy Upper School, Windsor

TEACHER/MENTOR: Esslam Hassan

TITLE: A Novel Design for the Integration of a Microbial Desalination Cell in a Microbial Fuel Cell for the Production of Energy and Purification of Water

The search for renewable energy has been driven by the diminishing supply of fossil fuels. On-going research is required to determine cost-effective sources of energy. More recently, microbial fuel cells have become a viable option. A MFC apparatus can generate an electrical current from microorganisms. Nine microbial fuel cells were constructed with a novel design in order to test the effectiveness of 3 different sized electrodes: 5cm², 6cm², and 7 cm². A salt-water solution was placed in the cathodic chamber, leaving the anode with mud, the source of microorganisms. Between the two chambers was a third chamber with another salt-water solution; on either side were anodic and cathodic-exchange membranes. Three different amounts of salts were placed in the middle chamber: 10 g, 20 g, and 30 g. The goal was to integrate a microbial desalination cell in a microbial fuel cell to produce energy. Although the amount of water desalinated was negligible (continued modifications will be employed); the highest output of voltage – slightly over 330 millivolts was produced from the cell with the largest electrodes. The experiment demonstrated that the larger the surface area, the higher the voltage. These cells had an average voltage of 243 mV while the cells with medium-sized electrodes had an average of 153 mV and the smallest electrodes with 161 mV. Ultimately, this experiment confirmed the ability for microbial fuel cells to be implemented on a larger scale.

GENIUS Olympiad Competitors

3072 LS Biological Control of The Emerald Ash Borer Using Entomopathogenic Fungus

Danbury, Danbury High School, Teacher - Mr. Weinheimer

Janine Kerr, Danbury 10

Awards: Honors = 1

- Pfizer Life Sciences Awards --- 5th Place- Life Sciences Senior High- trophy
- Urban School Challenge Awards with support from CASE --- Senior High Finalist - Medallion and acrylic award
- Environmental Sciences Awards with CACIWC --- 2nd Place HS- \$200, Trophy, CACIWC gifts, Trip to Compete GENIUS Olympiad, Oswego, NY
- Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- trophy
- The Goodwin-Niering Center for the Environment --- \$100 for “Excellence in Environmental Conservation Studies”
- Banning Family Life Science Award --- For excellence in invasive species research, \$100 cash

6089 PS Reduction of Biodiesel Post Combustion Residue

Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk Shadle

Julia Elstein, Trumbull 12

Awards: Honors = 1

- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- Urban School Challenge Awards with support from CASE --- Senior High Finalist - Medallion and acrylic award
- Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- GENIUS Olympiad --- GENIUS Olympiad Competition for HS student (s) and advisor - Energy
- University of New Haven 11-12th Grade Awards in Engineering & Science --- \$100 for Top 11th or 12th Grade Project in Sustainability

6056 PS Thermoelectricity

Norwich, Norwich Free Academy, Teacher - Mrs. Jones

Connor Provost, Bozrah 9

Awards: Honors = 1

- Dominion Millstone Power Station Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- EnergizeCT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- Wisner Award --- \$250 cash and plaque
- University of Connecticut - Physics Department --- UCONN Physics Department - Co-Op \$100 Gift Certificate
- John B. Trevor Award in Electrical Engineering --- \$500 cash award for an innovative electronic or electrical project

Unable to compete due to scheduling conflict

6083 PS Intrinsic Laptop Energy Capture via Keyboard Piezoelectric Conversion

Greenwich, Greenwich High School, Teacher - Andy Bramante

Travis Anderson, Greenwich 11

Awards: Honors = 2

6511 PST Windbelts: The Future of Wind Power; The Effect of Magnet Thickness, Coil Configuration, and Film Elasticity on Electrical Output of a Windbelt

Woodbridge, Amity Regional High School, Teacher - Deborah Day

Daniel Giebisch, Woodbridge 10 **Noah Gallant** Bethany 10

Awards: Honors = 1

GENIUS Olympiad AbstractsNAME: **Janine Kerr**

SCHOOL: Danbury High School, Danbury

TEACHER/MENTOR: Mr. Weinheimer

TITLE: Biological Control of The Emerald Ash Borer Using Entomopathogenic Fungus

The Emerald Ash Borer (EAB) is an invasive species of beetle that kills ash trees by burrowing under the bark. EAB have been found in 16 different states including CT, causing billions of dollars in damage and severe ecological problems. Currently, the only method of control is to use environmentally dangerous chemical insecticides. In order to find a more environmentally sound control strategy, entomopathogenic fungal spores and nematodes were used in an approach targeting both adult and larval EAB. Adult EAB were exposed to increasing concentrations of fungal spores, and mortality was measured after 8 days. In addition, infested ash logs were treated with entomopathogenic nematodes. Although unable to show effectiveness with nematodes, treatment with fungal spores showed a dose dependent decrease in survival of adult EAB compared to an insecticide used as a positive control. These results demonstrate a promising biological control method that is safe for the environment.

NAME: **Julia Elstein**

SCHOOL: Bridgeport Regional Aquaculture Center, Bridgeport

TEACHER/MENTOR: Kirk Shadle

TITLE: Reduction of Biodiesel Post Combustion Residue

Biodiesel is a natural renewable domestic fuel alternative for diesel engines made from vegetable oils. It contains no petroleum, is nontoxic and biodegradable. The leading reason that prevents biodiesel from being a mainstream alternative fuel is the formation of a post combustion residue (PCR). This PCR requires frequent engine maintenance to prevent premature engine failure. Current technology offsets this by blending 50% biodiesel with 50% petroleum diesel (50/50 Blend), but this is still not a standalone alternative fuel. In an attempt to eliminate the problematic PCR, biodiesel was synthesized from canola oil using a sodium hydroxide/methanol treatment. Then 3.0mL of biodiesel product was combined with a 0.10mL cetane additive. The cetane additive reduces PCR by postponing the combustion process allowing the temperature of the engine to rise. Higher temperatures allow for more efficient combustion of the biodiesel which generates reduced PCR. Additionally, the cetane increased the fuel efficiency dramatically. When the biodiesel was combusted, the non-treated biodiesel had an average energy output of 7.85 BTU's/3mL, while the treated biodiesel had an average energy output of 10.74 BTU's/3mL leading to a net increase of 2.89 BTU's/3mL of biodiesel(the 50/50 Blend output was 6.51 BTU's/3mL). The average mass of the PCR of the non-treated biodiesel was 5.82g. The average mass of the PCR of the treated biodiesel was only 0.27g decreasing the total mass 95.5% (the 50/50 Blend had an average PCR mass of 0.22g). The increased energy output and reduced PCR makes the treated biodiesel a more marketable fuel.

GENIUS Olympiad Abstracts

NAME: **Connor Provost**

SCHOOL: Norwich Free Academy, Norwich

TEACHER/MENTOR: Mrs. Jones

TITLE: A Study Of Thermoelectric Effects And Their Application For Harvesting Energy From Dissipated Body Heat

A great amount of human body heat is expelled as waste, which could be an alternative means of generating electrical energy. This project examines the effects of thermocouple length on voltage output and investigates various thermoelectric properties and principles to construct a hat to power a small device with electricity generated from excess body heat. Wires in 37 combinations made from 7 different metals were tested for resistance and voltage before and after a temperature gradient was applied. These wires were assembled into thermopiles of ten thermocouples with lengths of .5 ft, 1 ft, and 2 ft (both 32 and 18 gauge). Each individual thermocouple consisted of two wires that were measured, cut, soldered, and coated with liquid electrical tape. One end of the thermoelectric generator was heated to 98°F, core body temperature, and the other end at 70°F, a comfortable ambient temperature. Based on data collected, 1ft, 32 gauge, nickel and galvanized steel was selected for use in the hat made of 125 thermocouples. To increase the output voltage, a boost converter circuit was built with several capacitors, a transformer, and a DC/DC converter. Many months were spent researching thermodynamics, selecting and preparing materials, and developing test procedures. As predicted, voltage increased with thermocouple length and never achieved thermal equilibrium. The voltage increase can be explained through Ohm's Law as an increase in resistance, and results in a decrease in the overall current. This hat is a novel example of harvesting power from excess body heat.

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Ma	Andrew	3058	Niski	Joseph	6502
Maccione	Morgan	1001	Noel	Jenna	6515
Maceira	Victoria	3075	Noel-Sullivan	Timothy	3073
Maddalena	Alexa	1006	Nolan	Timothy	3061
Madfes	Mallory	3064	Novek	Ethan	5516
Mahmood	Rigel	6009	Novoa	Matt	6021
Mannan	Lamisa	3510	O'Connor	Emily	5538
Manning	Kevin	4035	O'Hare	Colin	1011
Manokhin	Antony	6058	O'Rourke	Matthew	5005
Mansour	Isaiah	3065	Oei	Bridget	6020
Marmer-Adams	Abigail	2517	Orlando	Annabelle	6097
Mathew	Irene	6043	Orr	Charles	4045
Mathew	Kristen	4042	Ortiz	Chelsea	1007
Mathieu	Archley	3092	Ostagne	Prince	4023

Ouellette	Andrew	2015	Russo	Christy	4010
Palinkos	Erin	4002	Rutkowski	Stephen	5542
Palmberg	Alexis	5513	Sanchez	Jessica	5044
Palmieri	Nicole	5037	Santiago	Kelsie	1019
Parmanand	Amrit	5550	Santiago	Yucel	5024
Parris	James	5508	Sasson	Brianna	3504
Patel	Kishan	3508	Satonick	Peter	3036
Paul	Amisha	4026	Saviano	Tiffany	5055
Peck	Amelia	5549	Saxe	Sarah	4004
Pellerin	Harrison	6011	Schaefer	Zechariah	5560
Pendo	Kevin	6513	Scheinblum	Thomas	3055
Peracha	Arooba	1021	Schlottman	Kylie	2010
Perry	Reham	5036	Schultz	Robert	6505
Peters	Alexandra	2031	Schumitz	Kevin	6090
Peterson	Caitlyn	6042	Sciallo	Alexandra	2527
Phillips	Megan	4036	Seeger	Morgan	3047
Piekarski	Chana	4014	Seligson	Daniel	4001
Pinckney	Ashanti	3503	Senel	Yusa	6501
Poe	Virginia	2540	Sengupta	Allora	1018
Pokorski	Alexander	3508	Sfaelos	Ashley	1012
Pontes	Ana	6007	Shafraan	Ashley	4002
Ponvert	Quincy	4045	Shah	Keyur	3088
Powe	Madison	5025	Shapiro	Daniel	3050
Powell	Noah	1016	Sharma	Shantanu	3508
Provost	Connor	6056	Shashoua	Tal	3504
Provost	Katie	5006	Sherman	Jeremy	3066
Quinn	Samantha	3071	Shnipes	Scott	6506
Rafi	Muqsith	4007	Shpak	Rebecca	6047
Raghuraman	Shruthi	3059	Shultis	Jessica	5054
Rahimyar	Asma	2507	Siegel	Isabella	3060
Rahma	Rahnumar	2021	Sierra	Junior	3078
Rahman	Khaleel	5047	Simons	Cole	5002
Rahman	Taryn	5511	Singh	Harry	3024
Ramachandran	Ashish	6509	Siveyer	Jonathan	2504
Raman	Mahesh	6513	Skaller	Samantha	6099
Rashan	Trinity	5053	Sload	Jeffrey	3077
Raymond	Matthew	5043	Smith	Dylan	6506
Regan	Tara	4020	Smith	Elizabeth	3028
Reidy	John	6510	Smith	Jazmine	5563
Reilly	Bryn	4033	Smith	Richard	6076
Rejepov	Jepbar	3513	Smith	Riley	1008
Rendon	Jose	5028	Smith	Roy	5556
Rhodd	Sasha	6044	Solder	Alec	3021
Richards	Tyson	4029	Sottile	Zoe	5554
Ricozzi	Callia	6069	Spell	Jacob	5008
Rieke	Shira	3039	Spencer	Alexis	6514
Rigby	Elizabeth	6082	Speranza	Amelia	3511
Ringes	Maria	2534	Spitia	Emma	3502
Robertson	Megan	2518	Stafko	Kimberly	1006
Robinson	Cooper	6065	Standish	Autumn	3503
Robinson	Dayna	2522	Stitzer	Franklin	3507
Rogers	Matthew	6003	Strosser	Anna	4003
Rogoff	Honey	4031	Stupakevich	Allie	3098
Rohr	John	4043	Sud	Sivan	6101
Romero	Kevin	2001	Swamy	Neel	3017
Romo Kurek	Elliot	5551	Swanson	Nevan	3037
Roth	Faren	2030	Sweeney	Allyson	3016
Roy	Rachel	3502	Tanner	Christian	3507
Roychoudhury	Ankita	5521	Tavarez	Joel	2512
Roychoudhury	Shayan	3026	Teerlinck	Samuel	5525
Russell	Laura	5505	Teke	Furkan	6501
Russell	Peter	6054	Tepler	Sophia	3045
Russell	Yehudah	2532	Texiera	Rachel	4012

Thomas	Justin	3085	Wendt	Ryan	6067
Thomas	Mark	1011	Westgate	Brian	6036
Thomas-Russell	Aaron	5046	White	Zach	6504
Thouvenot	Quentin	4027	Whiteman	Theodore	5004
Ticsay	Michael	3512	Wilklow	Corinne	5501
Ting	Sophia	4031	Williams	Victoria	2020
Tranfo	Thomas	6019	Windsor	Evan	5012
Troy	Olivia	4006	Wink	Sarah	4030
Tucker	Heather	4038	Witz	Jeff	6510
Vaca	Ian	6033	Wong	Asa	2032
Valloso	Catherine	2520	Wood	Mary	5517
Vanags	Ryan	5507	Wrotniak	Sara	4017
Vang	Dora	6512	Xiong	Andrew	3044
Varian	Cassandra	2019	Yu	Xiaofei	6046
Vaswani	Meena	3020	Zakowrotny	Kristin	3510
Veilleux	Gabrielle	1001	Zambrzycka	Ewelina	3515
Verille	Abigail	6071	Zemke	Corey	6515
Vieira	Victor	6035	Zezenia	Leah	4010
Vissak	Quinn	3097	Zezenia	Trevor	4043
Vora	Ninad	2515	Zhao	Dorry	3004
Vu	Brandon	6027	Zhao	Helen	3014
Walawalkar	Isha	3062	Zhu	Jennifer	3051
Walker	Nicholas	4016	Zhuang	Shiyu	6068
Wargo	Julia	6038	Zielinski	Kyle	6032
Weeks	Russell	6103	Ziobron	Amy	4018
Weissenberg	Regina	6516	Zweibel	Matthew	1003
Weldon	Holly	2508			

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 66th Year
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