
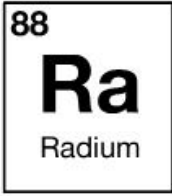



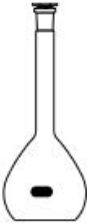




70th Year

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 PASTEUR	 2018 CONNECTICUT SCIENCE AND ENGINEERING FAIR	 WATSON&CRICK

2018



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

March 12-17, 2018

QUINNIPIAC UNIVERSITY Hamden

70th

Connecticut

Science & Engineering Fair

Quinnipiac University
Hamden

March 12 - 17, 2018

Connecticut Science Fair Association

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

Connecticut Science Fair Association

April 2018

70th Connecticut Science & Engineering Fair

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WEB SITES

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

AWARDS

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

Life Sciences

- 1001 LT Growing, Growing, Gone! A Fertilizer Experiment
 Danbury, St. Joseph School, Teacher - Jennifer Reilly
 Christian Jeffers, Danbury 7 Georen Chirayil Danbury 7
 Awards: Honors = 1
 • Pfizer Life Sciences Awards --- 2nd Place- Life Sciences MS Team- \$100 each & trophy and Invite Compete Broadcom MASTERS
- 1002 LT Caffeine's Effect On Plant Growth
 Baltic, Sayles School, Teacher - Miss Roy
 Abigail Staggs, Baltic 8 Ashlyn Bill Baltic 8
 Awards: Honors = 2
- 1003 LT 5 Second Rule?
 Bridgeport, Park City Prep Charter School, Teacher - Mrs.Boudreau
 Dianna Ismail, Bridgeport 7 Imrath Saboor Bridgeport 7
 Awards: Honors = 3
- 1004 LT How Can Climate Change Affect the Rate of Evolution on Baker's Yeast
 Weston, Weston Middle School, Teacher - Melanie Welsh
 Lecia Sun, Weston 8 Brynne McGee Weston 8
 Awards: Honors = 1
 • Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion
- 1005 LT Studying The Impact Of Acid Rain And Gutter Water On The Growth Of Three Plants
 Stamford, Bi-Cultural Day School, Teacher - Christopher Graseck
 Zachary Isaacs, Stamford 7 David Klein Stamford 7
 Awards: Honors = 1
 • Pfizer Life Sciences Awards --- 3rd Place- Life Sciences MS Team- trophy and Invite to Compete Broadcom MASTERS
 • Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- 1006 LT What Whitens your Teeth the Best
 Fairfield, St. Thomas Aquinas Catholic School, Teacher - Philip Flynn
 Kathryn Fitzgerald, Fairfield 7 Elliana Gallagi Fairfield 7
 Awards: Honors = 3
 • American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF
- 1007 LT Strawberries and DNA
 Bridgeport, Blackham School, Teacher - Patricia Wrenn
 Daniel Tarazona, Bridgeport 7 Normiana Manzano Bridgeport 7
 Awards: Honors = 2
- 1008 LT Insecticide or Suicide? Creating and Comparing Natural and Unnatural Insecticides
 Weston, Weston Middle School, Teacher - Melanie Welsh
 Nicole Satanovsky, Weston 8 Konstantina Gotouhidis Weston 8
 Awards: Honors = 3
 • American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF

AWARDS

- 1009 LT Investigating short-term effect of different video games on the body
Windsor, Madina Academy, Teacher - Zaide Ibic
Ahmad Zoghol, Enfield 7 Amer Kabatilo Windsor 7 Zain Kabatilo Windsor 7
Awards: Honors = 1
• Pfizer Life Sciences Awards --- 1st Place- Life Sciences MS Team- \$100 each & trophy and Invite to Compete Broadcom MASTERS
- 1010 LT Will It Preserve?
Waterbury, Our Lady of Mt. Carmel School, Teacher - Tricia Ann Vertuccio
Markela Karameta, Waterbury 8 Sonila Pasholi Waterbury 8
Awards: Honors = 2
- 1011 LT Music vs. Mind: Music affects the Brain
West Hartford, St. Brigid - St. Augustine Partnership School, Teacher - Donald Fay
Sejmora Thomas, Bloomfield 7 Victoria Mealha Hartford 7
Awards: Honors = 2
- 1012 LT The Effects of Ocean Pollutants on Marine Organisms
Bridgeport, Park City Prep Charter School, Teacher - Jonathan Jaekle
Jenifer Bonilla, Bridgeport 8 Elysia Couvertier Bridgeport 8
Awards: Honors = 2
- 1013 LT Now you “C” it, now you don’t
Danbury, St. Gregory the Great School, Teacher - Christine Fahey
Mary Grace Fontana, Danbury 7 Sarina Steinerd Danbury 7
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion
- 1014 LT Water you drinking?
Danbury, St. Joseph School, Teacher - Jennifer Reilly
Talia Pereira, Brookfield 7 Sadie Jarboe Danbury 7
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion
- 1015 LT Eins
New London, Bennie Dover Jackson Middle School, Teacher - Willie Barber
Evangeline Baez, New London 8 Estefany Almanzar New London 8
Awards: Honors = 3
• CASE • PepsiCo Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion
- 2001 L7 Does a female’s sport and medical history affect their gait and possibly cause a gait abnormality?
Pawcatuck, St. Michael School, Teacher - Anna-Helene Grossomanides
Molly Kulick, Mystic 7
Awards: Honors = 3
• Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School Life Sciences
- 2002 L7 Does Practice Make Perfect?
Bridgeport, Park City Prep Charter School, Teacher - Mrs. Boureau
Emily Colon, Bridgeport 7
Awards: Honors = 3
- 2003 L7 App for Charities in Connecticut
Greens Farms, Greens Farms Academy, Teacher - Mrs. Oshin
Makda Tessema, Bridgeport 7
Awards: Honors = 3
- 2004 L7 How do acids and bases affect enzymes ?
West Hartford, St. Brigid - St. Augustine Partnership School, Teacher - Donald Fay
Miranda Estrada, Hartford 7
Awards: Honors = 3

- 2005 L7 It's Brine Time: A Study of How Salinity Affects the Hatching Rate of Brine Shrimp
Hartford, Environmental Sciences Magnet School at Mary Hooker, Teacher - mrs. Hays
Brianna Sanchez, Enfield 7
Awards: Honors = 2
 - Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- 2007 L7 Biomechanics of Dance
West Hartford, St. Brigid - St. Augustine Partnership School, Teacher - Mr.Fay
Faith Saunders, Hartford 7
Awards: Honors = 3
- 2008 L7 Plants Jammin! Fairfield, Assumption Catholic School, Teacher - Mrs. Strazza
Cadae Thomas, Bridgeport 7
Awards: Honors = 1
 - Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion
- 2009 L7 An Easy and Economic Way of Filtering Salt Water
Windsor, Madina Academy, Teacher - Zaide Ibic
Abdulmalik Ajdinoski, Windsor Locks 7
Awards: Honors = 1
 - Pfizer Life Sciences Awards --- 5rd Place- Life Sciences 7th grade- trophy
 - UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
 - Alexion Biotechnology Awards --- 5th Place- Biotechnology 7th grade- trophy
- 2010 L7 Underwater Battle:The Effect of Pollution on Brine Shrimp
New Haven, Worthington Hooker Middle School, Teacher - Mr. Jones
Athena Brown, New Haven 7
Awards: Honors = 1
 - Pfizer Life Sciences Awards --- 1st Place- Life Sciences 7th grade- \$200 & trophy and Invitation to Compete Broadcom MASTERS
 - Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
 - CASE • PepsiCo Urban School Challenge Awards with IBM --- 3rd Place Middle School - \$100 and Trophy, Medallion
 - Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
 - Alexion Biotechnology Awards --- 1st Place- Biotechnology 7th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS
 - Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp
 - Environmental / Energy Award- New Haven Public School Award --- \$100 Award for top environmental or alternative energy project from a New Haven public school
- 2011 L7 Can Plants Grow In Different Liquids?
Bridgeport, Park City Prep Charter School, Teacher - Jonathan Jaekle
David Boudreau Jr, Ansonia 7
Awards: Honors = 2
- 2013 L7 Whats On Your Mind
Hartford, Environmental Sciences Magnet School at Mary Hooker, Teacher - Ms.Hays
Catherine Fay, Middletown 7
Awards: Honors = 3
- 2014 L7 Clean up your act
New Haven, Betsy Ross Arts Magnet School, Teacher - K.Cichus
Josiah Williamson, New Haven 7
Awards: Honors = 1
 - Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion
 - CASE • PepsiCo Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion
- 2015 L7 A Plant's Favorite Color
Forestville, St. Matthew School, Teacher - Danielle Persichetti
Adam Zwolinski, Bristol 7
Awards: Honors = 2

AWARDS

- 2016 L7 Plants!
East Hartford, St. Christopher School, Teacher - Dr. James Tanguay
Mary Poirier, East Hartford 7
Awards: Honors = 2
- 2017 L7 Comparing Organic and non organic seeds in filtered and non filtered water,
Stamford, Bi-Cultural Day School, Teacher - Mr. Christopher Graseck
Naomi Hanna, Stamford 7
Awards: Honors = 3
- 2018 L7 Which gender has a better memory
Kensington, St. Paul School, Teacher - Michael Maggiore
Reiyako Pigeon, New Britain 7
Awards: Honors = 3
- 2019 L7 Does PH affect the growth of grass?
Newtown, St. Rose of Lima School, Teacher - Mrs. Anastasia Damalas
Julia Cirone, Newtown 7
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion
- 2020 L7 Hydrogen Power
Greenwich, Greenwich Catholic School, Teacher - Lutz
Sebastian Henao, Stamford 7
Awards: Honors = 1
• Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
• American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF
- 2021 L7 Color or Black and White? Which Evokes More Emotion
Danbury, St. Joseph School, Teacher - Jennifer Reilly
Emily Cruz, Danbury 7
Awards: Honors = 2
- 2022 L7 Memorizing With Music
Hartford, Environmental Sciences Magnet School at Mary Hooker, Teacher - Mrs. Hays
Maria Amisano, East Granby 7
Awards: Honors = 2
• Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
• American Psychological Association --- Certificate, \$25 gift card to Amazon given by CSEF
- 2023 L7 Potato Power!!
Hartford, Renzulli Academy, Teacher - Kelley Howe
Alexis Maldonado, East Hartford 7
Awards: Honors = 3
- 2024 L7 Do different species of tree's growth patterns vary when looking at their growth rings?
Bozrah, Fields Memorial School, Teacher - Mrs. E Brown
Norah Tracy, Bozrah 7
Awards: Honors = 2
• Alexion Biotechnology Awards --- 4th Place- Biotechnology 7th grade- trophy and Invitation Compete in Broadcom MASTERS
• Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Phys Science
• Yale Peabody Museum --- One-Year Family Membership to the Yale Peabody Museum
• Banning Family Life Science Award --- For excellence in invasive species research, \$100 cash
• Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash
- 2025 L7 Read, Set, Grow
Forestville, St. Matthew School, Teacher - Danielle Persichetti
Malcolm Stratton, Plainville 7
Awards: Honors = 2

- 2026 L7 The Effect of Salt Water on Radish Growth
Stamford, Bi-Cultural Day School, Teacher - Christopher Graseck
Daniel Goldberg, Stamford 7
Awards: Honors = 2
- 2027 L7 How does Water Salinity Affect a Scallion's Growth
Bridgeport, John Winthrop School, Teacher - Susan Beres
Richard Zou, Bridgeport 7
Awards: Honors = 2
- 2028 L7 The Force To Seperate
Bridgeport, Park City Prep Charter School, Teacher - Mrs.Boudreau
Jeremiah Hernandez, Bridgeport 7
Awards: Honors = 3
 - Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- 2029 L7 Informal Soldiers
Hartford, Environmental Sciences Magnet School at Mary Hooker, Teacher - Becca Hays
William Visalga, Newington 7
Awards: Honors = 1
 - Pfizer Life Sciences Awards --- 4th Place- Life Sciences 7th grade- trophy and Invitation Compete in Broadcom MASTERS
 - CASE • PepsiCo Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion
- 2030 L7 Hot and Hard Headband
Bethel, St. Mary School, Teacher - Mrs. McDonald
Anna Kopec, Bethel 7
Awards: Honors = 3
 - UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
 - U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate
- 2031 L7 To grow or not to grow
Bridgeport, Multicultural Magnet School, Teacher - Corina Ciuflea
Savannah Guzman, Bridgeport 7
Awards: Honors = 1
 - Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
 - Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- 2032 L7 Don't Rain on my Radish (How does acid rain affect the growth of radishes?)
Stratford, St. Mark School, Teacher - Mrs. Lynn Olins
Skyler Johansen, Stratford 7
Awards: Honors = 2
- 2501 L8 Will H₂O Win?!
Bridgeport, Classical Studies Magnet Academy, Teacher - Mr. Feeney
Yaelis Perez, Bridgeport 8
Awards: Honors = 2
- 2502 L8 The Effect of Musicianship to Speed of Learning Languages
Suffield, Suffield Middle School, Teacher - Mr. Mitchell Charkiewicz
Isabella Jiang, Suffield 8
Awards: Honors = 1
 - Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 8th grade- \$200 & trophy and Invite to Compete Broadcom MASTERS
- 2504 L8 A Study on Angiosperm Xylem Based Sucrose Filtration Systems
Danbury, Westside Middle School Academy, Teacher - Jonathan Neuhausel
Vincent Trombetto, Danbury 8
Awards: Honors = 2
 - CASE • PepsiCo Urban School Challenge Awards with IBM --- 5th Place Middle School - Trophy, Medallion
 - Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
 - Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

AWARDS

- 2505 L8 Development of rapid test for Lyme bacteria in ticks
Avon, Talcott Mountain Academy, Teacher - Dr. Brigette Zacharczenko
Julian Kage, Glastonbury 8
Awards: Honors = 2
- Alexion Biotechnology Awards --- 3rd Place- Biotechnology 8th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS
- 2506 L8 New Creature in the Sea.
Bethel, St. Mary School, Teacher - Kate McDonald
Magdalena Swierczek, Danbury 8
Awards: Honors = 3
- Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
 - U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate
- 2507 L8 Sugars in foods: implications for Diabetics
Stamford, Independent - The Harvey School, Katonah, NY, Teacher - Ms. Marcie Hajem
Wendy Lichtenberg, Stamford 8
Awards: Honors = 1
- Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion
- 2508 L8 Cleaning Coins
Forestville, St. Matthew School, Teacher - Danielle Persichetti
Ciara Collins, Bristol 8
Awards: Honors = 2
- 2509 L8 Brushing Bacteria
New Haven, Betsy Ross Arts Magnet School, Teacher - Roisin Macdonald
Kendall Evans, Ansonia 8
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 5th Place- Life Sciences 8th grade- trophy
- 2510 L8 How can forest fires help soil regain their nutrition, and let the plant grow taller?
Danbury, Westside Middle School academy, Teacher - Jonathan Nuehausel
Alex Morquecho, Danbury 8
Awards: Honors = 2
- American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF
 - Connecticut Nurserymen's Foundation, Inc. --- \$200 Cash Award & paid registration to the CT Nursery and Landscape Summer Meeting
- 2511 L8 Organisms in an Ecosystem
Bridgeport, Park City Prep Charter School, Teacher - Vasiliki Boudreau
April Almeida, Bridgeport 8
Awards: Honors = 2
- Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion
- 2512 L8 Stunted Growth: How Do Cell phones Affect Plant Growth and Can Certain Materials Prevent It?
Danbury, St. Joseph School, Teacher - Mrs. Reilly
Bronwyn Hyland, New Fairfield 8
Awards: Honors = 2
- Alexion Biotechnology Awards --- 5th Place- Biotechnology 8th grade- trophy
 - American Society of Safety Engineers, CT Valley Chapter --- \$100 grade 7-8 project
 - Sister Mary Christine Life Sciences Award --- \$100 for excellence in the life sciences by a catholic middle school project
- 2513 L8 The Effect of Digestion on Sugary Drinks
Bethel, St. Mary School, Teacher - Kate McDonald
Caroline Tucker, Danbury 8
Awards: Honors = 2

- 2514 L8 Bloom of Doom
 Danbury, St. Gregory the Great School, Teacher - Christine Fahey
 Melanie Seaman, New Fairfield 8
 Awards: Honors = 1
- Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion
 - Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
 - NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
 - Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash
- 2515 L8 Germs germ everywhere
 Bridgeport, Park City Prep Charter School, Teacher - Vicky Boudreau
 Sanaa Hatton, Bridgeport 8
 Awards: Honors = 3
- 2516 L8 Got Your Back
 Avon, Talcott Mountain Academy, Teacher - Lydia Gibb
 Emma Ruccio, Southington 8
 Awards: Honors = 2
- UTC Aerospace Systems Engineering Awards --- 3rd Place- Engineering MS \$100 & trophy and Invitation to Compete in Broadcom MASTERS
 - Alexion Biotechnology Awards --- 2nd Place- Biotechnology 8th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS
 - Henderson Award --- Certificate and \$25 Amazon Gift Card given by CSF
 - Robotics And Beyond Award for Excellence in Physics- High School and Engineering Design- Middle School --- Middle School- For Excellence in Engineering Design- \$200 for for Robotics And Beyond STEM Design Academy in July
- 2517 L8 Music Therapy APPLIED
 Greenwich, Greenwich Catholic School, Teacher - Carol Lutz
 Ella Ann Woei, Greenwich 8
 Awards: Honors = 3
- Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
 - Connecticut Association for the Gifted --- Leonardo Davinci 7-8 Grade \$50 Gift Certificate
- 2518 L8 How Far has Humanity Come from Instinct?
 Weston, Weston Middle School, Teacher - Melanie Welsh
 Ava Cho, Weston 8
 Awards: Honors = 2
- 2521 L8 Design and Testing of a Chitin-based Filter for Bio-remediation of Nitrates
 Newtown, Newtown Middle School, Teacher - Jeffery Shupp
 Marguerite LaBanca, Sandy Hook 8
 Awards: Honors = 2
- Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion
 - Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
 - Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
 - Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner
- 2523 L8 How are different diets more or less effective for weight loss and lowering the risk of heart disease?
 Weston, Weston Middle School, Teacher - Melanie Welsh
 Luca O'Neil, Weston 8
 Awards: Honors = 3
- 2524 L8 Gases and Beverages
 Bridgeport, John Winthrop School, Teacher - Gregory Walsh
 Isabelle Seara, Bridgeport 8
 Awards: Honors = 3

AWARDS

- 2525 L8 Impact of natural and chemical preservatives to extend the shelf life of apple cider.
Danbury, Westside Middle School Academy, Teacher - Jonathan Neuhausel
Mathew Mathew, Danbury 8
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 4th Place- Life Sciences 8th grade- trophy and Invitation Compete in Broadcom MASTERS
 - Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to dinner
- 2526 L8 “Wifi - Harmless or Harmful”
Bethel, St. Mary School, Teacher - Kate McDonald
Oona Tuccinardi, Bethel 8
Awards: Honors = 3
- 2527 L8 How Distance from Compost Affects Soil Nutrient Levels
Falls Village, Lee H. Kellogg School, Teacher - Joseph Markow
Avery Tripp, Falls Village 8
Awards: Honors = 1
- Pfizer Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion
 - Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion
- 2528 L8 Saving Crops from Cold Snaps – The Effect of Gamma-Aminobutyric Acid (GABA) on Freeze Tolerance in Wheatgrass
West Hartford, St. Timothy Middle School, Teacher - Danielle Locke
Grace Flynn, West Hartford 8
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 1st Place- Life Sciences 8th grade- \$300 & trophy and Invite to Compete Broadcom MASTERS
 - Environmental Sciences Awards with CACIWC --- 1st Place MS - \$300, Trophy, CACIWC gifts
 - Connecticut Science Teachers Association’s Marty Tafel Student Research Award --- Life Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
 - Alexion Biotechnology Awards --- 4th Place- Biotechnology 8th grade- trophy and Invitation Compete in Broadcom MASTERS
 - The Karen J. Howell Middle School Award for “Learning and Serving” --- The Karen J. Howell Middle School Award for “Learning and Serving” - \$1000
- 2529 L8 The Effects of Microwave Rays on Plants and Yeast
Danbury, St. Joseph School, Teacher - Mrs. Reilly
William Doran, Danbury 8
Awards: Honors = 3
- 2530 L8 How does Bacteriophage Phi x 174 affect with E. coli differently than Bacteriophage MS2?
Danbury, Westside Middle School Academy, Teacher - Jonathan Neuhausel
Stephanie Queiroz, Danbury 8
Awards: Honors = 3
- Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- 2531 L8 The Effects of X-ray Radiation on the Germination and Growth of Radish Plants.
Danbury, St. Joseph School, Teacher - Mrs. Jennifer Reilly
Conor O’Keefe, Danbury 8
Awards: Honors = 2
- 2532 L8 An Invisible Enemy That Kills
Bridgeport, Multicultural Magnet School, Teacher - Corina Ciuflea
John Paul Atehortua, Bridgeport 8
Awards: Honors = 2
- Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, air pollution related
- 2533 L8 Metabolic Touch
Wilton, Middlebrook School, Teacher - Debbie Mallozi
Krithika Natarajan, Wilton 8
Awards: Honors = 2

- 2534 L8 The Effect of Bacteriophage on E.coli Bacteria
Greens Farms, Greens Farms Academy, Teacher - Modupe Oshin
Kavya Krishnamurthy, Westport 8
Awards: Honors = 2
• Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- 2535 L8 How Pigments “Leaf” The Plant
Forestville, St. Matthew School, Teacher - Danielle Persichetti
Peyton Kindblom, Bristol 8
Awards: Honors = 3
- 2536 L8 Seed Germination With Different Liquid
Bridgeport, Park City Prep Charter School, Teacher - Mr. Jaekle
Isabelle Patrick-Oliveira, Bridgeport 8
Awards: Honors = 3
• CASE • PepsiCo Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion
- 2537 L8 Transforming Trash Into Treasure: A Sustainable Approach To Oil Spill Cleanup
Cheshire, St. Bridget School, Teacher - Mrs. Carroll
Kavin Kathir, Cheshire 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 --- MS Finalist - CACIWC gifts, CSF Medallion
• Future Sustainability Awards - Eversource /energizeCT --- 2nd Place Middle School - \$200 Cash and Trophy
• Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
• Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
• Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF
• National Oceanic and Atmospheric Administration --- Certificate and medallion, and \$25 Amazon gift card given by CSEF
• Southeastern New England Marine Educators --- \$100 award and membership in SENEME - 1st Place Junior & T-Shirt
• Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related
• TurnKey Compliance Solutions Environmental Awards --- \$200 Cash Award Middle School- For excellence in environmental sciences
- 2538 L8 The Impact of Antibacterial Soap on Daphnia Magna: Implications for the Environment
Stamford, Bi-Cultural Day School, Teacher - Chris Graseck
Anna Lichtenberg, Stamford 8
Awards: Honors = 2
• Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
• Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion
- 2539 L8 Erosion Commotion
Windsor, St. Gabriel School, Teacher - Margaret Rosa
Emily Quinn, Windsor 8
Awards: Honors = 3
- 3001 LS The Effect of Weather Patterns on Migraines
Shelton, Shelton High School, Teacher - Mary Clark
Jules Cayer, Shelton 9
Awards: Honors = 3
- 3002 LS The Role of Temperature in Indoor Vermicomposting with Eisenia Fetida in Leachate Production and Quality via Limiting Nutrients P+ and N+
Redding, Joel Barlow High School, Teacher - Katherine Nuzzo
Rachel Wagner, Redding 12
Awards: Honors = 3
- 3003 LS Modeling origin of blood via patterns in stain.
New London, Science and Technology Magnet High School, Teacher - David Brwon
Alexandria DeGunia, Waterford 9
Awards: Honors = 3

AWARDS

- 3004 LS How do various sediments affect the growth and spreading of Naegleria Fowleri (Brain eating Amoeba)
Milford, Luralton Hall, Teacher - Dr.Knipp
Rachna Vipparla, Milford 9
Awards: Honors = 3
- 3005 LS Combating Food Deserts with Bean Urban Agriculture
Windsor, The Loomis Chaffee School, Teacher - Koby Osei-Mensah
Julianna Lee, Windsor 11
Awards: Honors = 1
- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 - Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
 - Future Sustainability Awards - Eversource/energizeCT --- High School Finalist - Medallion
 - ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
 - Connecticut Nurserymen's Foundation, Inc. --- \$200 Cash Award & paid registration to the CT Nursery and Landscape Summer Meeting
- 3006 LS Creation of a Screening Tool for Assessing Baseball Pitching Biomechanics
Darien, Darien High School, Teacher - Christine Leventhal
Chris Vernal, Darien 12
Awards: Honors = 3
- 3007 LS A Metanalysis of Single Nucleotide Polymorphisms in the BRCA1 and BRCA2 Genes of Breast Cancer Patients
Windsor, Greater Hartford Academy of Math and Science, Teacher - Lili Aramli
Alexandra Smith, West Suffield 11
Awards: Honors = 3
- 3008 LS The Effects of Videos Games On Problem Solving Skills
Suffield, Suffield High School, Teacher - Mitchell Charkiewicz
Leroy Lawson, West Suffield 11
Awards: Honors = 3
- 3009 LS Comparing Biofilm Formation on Naturally Occurring Antimicrobial Nanostructures from Squalus acanthias, Cicadidae sp., and Nelumbo nucifera
Bridgeport, Fairchild Wheeler Magnet High School, Teacher - Keli Veillette
Mariam Dobosz, Shelton 12
Awards: Honors = 2
- Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- 3010 LS Teen Generations:Stress Levels and Its Sources
Bridgeport, Bridgeport Military Academy, Teacher - Mr. Arun Kadam
Dafne Hernandez, Bridgeport 10
Awards: Honors = 2
- 3011 LS The effects of multiple blood meals and apoptosis on midgut basal lamina integrity in Aedes aegypti mosquitoes
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Ameya Menta, Orange 10
Awards: Honors = 2
- 3012 LS The Stimulation and Inhibition of the Capitite Peg Neuron A in Mosquitoes
Fishers Island, Fishers Island School, Teacher - Carol Giles
Nicholas Oickle, Groton 11
Awards: Honors = 3
- 3013 LS Effects of Soil Composition on the Decline of Fraxinus americana
Redding, Joel Barlow High School, Teacher - Dr. Katherine Nuzzo
Sean Mullin, Redding 11
Awards: Honors = 2
- Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum

- 3014 LS The Effect of Light Intensity on the Regeneration of Planarians (*Dugesia* sp.)
New London, Science and Technology Magnet High School, Teacher - Mr. Mulligan
Jane Statchen, Stonington 9
Awards: Honors = 2
- 3015 LS Investigating The Efficacy Of Selenium And Manganese For Controlling Pneumococcal Infections
Glastonbury, Glastonbury High School, Teacher - Diane Pintavalle
Athulya Narayanan, Glastonbury 11
Awards: Honors = 2
- 3016 LS Finding and Comparing the Ethanol Yield of Connecticut Invasive Plant Species
Greens Farms, Greens Farms Academy, Teacher - Dr. Mathieu Freeman
Grace McGonagle, Southport 11
Awards: Honors = 2
- Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
 - Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash
 - University of Connecticut - Physics Department --- UCONN Early College Experience Program: Frontier in Science- Co-Op \$100 Gift Certificate
- 3017 LS Can probiotic yeast be used to decrease the severity of Type 2 Diabetes symptoms in a *Drosophila melanogaster* disease model?
Norwich, Norwich Technical High School, Teacher - Dr. Morin
Gianpierre Roche, Willimantic 12
Awards: Honors = 1
- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 - University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Microbiology
- 3018 LS Testing the Effectiveness of Various Shading Materials on Mock Leatherback Sea Turtle Nests
Ridgefield, Ridgefield High School, Teacher - Ryan Gleason
Annabelle Colao, Ridgefield 12
Awards: Honors = 1
- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 - Yale Peabody Museum --- Family “six-pack” of free passes to the Yale Peabody Museum
- 3019 LS Spice It Up: The Use of Turmeric to Preserve Milk
Hamden, Sacred Heart Academy, Teacher - Ms. Tubis
Shabrang Montazer, Hamden 9
Awards: Honors = 2
- 3020 LS The Effect of Coffee Extracts on Viable Cells within *Staphylococcus Epidermidis* Biofilm Colonies
West Hartford, Hebrew High School of New England, Teacher - Zachary Towne
Batya Koenigsberg, New Haven 11
Awards: Honors = 2
- Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner
- 3021 LS Naturally Enhancing Plants’ Yield and Growth Rate
Suffield, Suffield High School, Teacher - Mitch Charkiewicz
John Dion, Suffield 11
Awards: Honors = 2
- 3022 LS The Definition Of The Mediterranean Diet And Standard Means To Measure Adherence
Glastonbury, Glastonbury High School, Teacher - Diane Pintavalle
Jayna Mikolaitis, Glastonbury 12
Awards: Honors = 3
- 3023 LS Human-Human Interface: The Effect of Using Different Nerves on Involuntary Movement.
Windsor, Greater Hartford Academy of Math and Science, Teacher - Dr. Bellinger
Sreenidhi Nair, West Hartford 12
Awards: Honors = 3

AWARDS

- 3024 LS The Effect of Misophonia on Selective Attention Control
Redding, CT STEM FAIR - Amity Regional High School, Teacher - Deborah Day
Hannah Rappaport, Orange 12
Awards: Honors = 2
- American Psychological Association --- Certificate, \$25 gift card to Amazon given by CSEF
 - Connecticut Academy of Audiology --- \$200 Award HS- For Excellence in Audiology and Acoustics, opport. to shadow an audiologist
- 3025 LS The Effect of Dopamine on Zebrafish Embryo Social and Biological Development
Windsor, Academy of Aerospace and Engineering, Teacher - Lilli Aramli
Rebecca Nowinski, Tolland 12
Awards: Honors = 3
- 3026 LS Low to Zero Cost Water Filtration Using Common Fungi
Fairfield, Fairfield College Preparatory School, Teacher - Mrs. Deborah Kiel
Antonios Boudreau, Ansonia 9
Awards: Honors = 2
- 3029 LS How Water Chemistry Varies Spatially Across Congamond Lake
Suffield, Suffield High School, Teacher - Mr. Charkiewicz
Brooke Tillotson, Windsor Locks 11
Awards: Honors = 2
- Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- 3030 LS A Computer Model of The Effect of Familial Structure on the Spread of the Influenza Virus
Hebron, RHAM High School, Teacher - Alexa Mitchell
Isabelle Benson-Clarke, Marlborough 10
Awards: Honors = 3
- Computer Science Awards --- Senior High Finalist - Medallion
 - University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Computer Science
- 3031 LS Amplifying Heat Shock Protein Expression in Glycine max for cross protection against substandard growing conditions.
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk Shadle
Evan O'Keefe, Fairfield 12
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 5th Place- Life Sciences Senior High- Plaque
 - University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Cell and Molecular Biology
- 3033 LS Localized Tkv Degradation Mechanism Maintains Germline Stem Cell and Gonialblast Populations in Drosophila Testes
Glastonbury, Glastonbury High School, Teacher - Diane Pintavalle
Sophia Ladyzhets, Glastonbury 12
Awards: Honors = 2
- 3034 LS Genetic Mechanisms Regulating Expression of Tor and EGFR Genes in Eusocial and Primitively Social Insects
Ridgefield, Ridgefield High School, Teacher - Patrick Hughes
Maia Clarkin, Ridgefield 12
Awards: Honors = 3
- 3035 LS Autonomously Killing Cancerous Cells by the Detection of up to Single Nucleotide Mutations
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Collin Marino, Greenwich 11
Awards: Honors = 2
- Alexion Biotechnology Awards --- 3rd Place- Biotechnology Senior High- \$300 & plaque
 - The Jackson Laboratory --- \$1,000 - The Jackson Laboratory Award for Excellence in Genomics Related Research

- 3036 LS Development of a Mucin Based Biomedical Adhesive Gel
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk Shadle
Brian Duffy, Fairfield 12
Awards: Honors = 2
- Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
 - Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
 - Otero Family Award --- The Otero Family Award; \$200 cash
 - Biophysical Society --- Biophysics Award- \$100
 - University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Biochemistry
- 3037 LS Functional Impact of RBP2 on Cellular Senescence and Pluripotency in Murine Breast Cancer Cell Lines
Ridgefield, Ridgefield High School, Teacher - Ryan Gleason
Nicole Alindogan, Ridgefield 12
Awards: Honors = 2
- 3038 LS Mean Platelet Volume as a Possible Diagnostic Marker for Myeloproliferative Neoplasm Disorders
Darien, Darien High School, Teacher - Christine Leventhal
Tanmay Mehta, Darien 12
Awards: Honors = 2
- 3039 LS Effects of Increased Acidity on Freshwater Chlorophytes (Euglena sp.)
New London, Science and Technology Magnet High School, Teacher - Charles Mulligan
Kyle Heard, Norwich 10
Awards: Honors = 2
- 3040 LS A comparative analysis of the efficiencies of hydroponic and aeroponic systems
Greenwich, Brunswick School, Teacher - Dana Montanez
William McLaren, Greenwich 10
Awards: Honors = 2
- Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
 - UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 - ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
- 3042 LS Controlled-Release Delivery of Ovarian Anticancer Paclitaxel via Vortex Ring, Donut-shaped Hydrogels
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Emily Philippides, Greenwich 12
Awards: Honors = 1
- Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High- \$500 & Plaque, Trip to compete at Intel ISEF
 - H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering in partnership with CCAT --- Life Sciences Senior 1st HS- \$1,000, Solid Silver Medal of Excellence, Invite to CASE Annual Mtg
 - Alexion Biotechnology Awards --- 2nd Place- Biotechnology Senior High- \$500 & plaque
- 3043 LS The Effect of Mushroom Spores on Condensation
Sandy Hook, Newtown High School, Teacher - Timothy DeJulio
Tristan Filiato, Newtown 12
Awards: Honors = 3
- 3046 LS Deca-Pods
Bethel, Bethel High School, Teacher - Mr. Turek
Connor Brescia, Bethel 12
Awards: Honors = 2
- 3047 LS Development of a Migration Model For *Morone saxatilis* Based on Thermal Shifts in Long Island Sound
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk Shadle
Clayton McGoldrick, Southport 12
Awards: Honors = 3
- Yale Peabody Museum --- One-Year Family Membership to the Yale Peabody Museum

AWARDS

- 3048 LS The Effect of the Altering of the Light-Dark Cycle on the Mass (g) of Leafy Green Algae (*Ulva lactuca*) Eaten by the Periwinkle Snail (*Littorina littorea*)
Redding, CT STEM FAIR - Amity Regional High School, Teacher - Deborah Day
Nicole Mongillo, Orange 10
Awards: Honors = 2
- 3049 LS Use of Regression Analysis to Predict Future Outbreaks of Malaria
Greenwich, Brunswick School, Teacher - Dana Montanez
Jamison Meindl, Riverside 10
Awards: Honors = 3
- People's United Bank Mathematics Awards - with ATOMIC --- 3rd Place High School - Plaque, \$200 from People's United Bank
 - Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
 - Computer Science Awards --- Senior High Finalist - Medallion
 - Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
 - Mu Alpha Theta --- Certificate, \$25 Amazon gift card given by CSEF
 - American Society for Quality - Thames Valley Section --- \$250 Cash Award
 - Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum
- 3050 LS The effect of outside life on school life.
Trumbull, Trumbull High School, Teacher - Steffanie Elkins
Howard Qian, Trumbull 10
Awards: Honors = 3
- 3051 LS Regulation of Lemna minor Reactive Oxygen Species through Iodide and Tyrosine Antioxidant Treatments to Maximize Biofuel Yield
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk Shadle
Alia Aguilar, Monroe 12
Awards: Honors = 2
- Energize CT/eesmarts Alternative/Renewable Energy Awards --- 3rd Place High School - \$200 Cash and Plaque
 - Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Life Sciences
- 3052 LS Insights into cellular reprogramming: a computational biology approach.
Hamden, Sacred Heart Academy, Teacher - Sibani Sengupta
Kelly Frier, Middlefield 11
Awards: Honors = 2
- Sister Mary Christine Life Sciences Award --- \$150 for excellence in the life sciences by a catholic high school project
- 3053 LS The Effect of Teaching Through A Research-Based Curriculum Versus Traditional Methods on Educational Outcomes
Norwich, Norwich Technical High School, Teacher - Dr. Jesse Morin
Christopher Papotto, Colchester 12
Awards: Honors = 2
- 3054 LS Are plants underrated heroes?
Bridgeport, Central High School, Teacher - Robert Pascarell
Alayah Evans, Bridgeport 10
Awards: Honors = 3
- 3055 LS The Effect of Biotin (Vitamin H) on Regeneration in Planarian
Windsor, Academy of Aerospace and Engineering, Teacher - Dr. Lillian Aramli
Ondrea Kerr, Bloomfield 11
Awards: Honors = 3
- 3056 LS Role Of Mir-433 In Osteosarcoma Initiation, Progression, And Drug Resistance
Glastonbury, Glastonbury High School, Teacher - Diane Pintavalle
Samarth Venkata Menta, Glastonbury 12
Awards: Honors = 2

- 3057 LS Detection of Early-Stage Alzheimer’s Disease via Hierarchical Classification of Proteomic and Clinical Profiles
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Shobhita Sundaram, Greenwich 12
Awards: Honors = 2
 - Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place High School \$250 / plaque
 - Alexion Biotechnology Awards --- 1st Place- Biotechnology Senior High- Trip to compete at Intel ISEF, \$1000 & plaque,
- 3058 LS Using stable isotope analysis to understand the trophic ecology of sharks in North Carolina
Ridgefield, Ridgefield High School, Teacher - Mr. Ryan Gleason
Adrianna Davis, Ridgefield 12
Awards: Honors = 3
- 3059 LS Do rewards affect neuro-electrical resistance?
New Haven, Wilbur Cross High School, Teacher - Nick Farrell & Joseph Zebrowski
Carlin Eswarakumar, New Haven 11
Awards: Honors = 1
 - Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 - CASE • PepsiCo Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion
 - American Psychological Association --- Certificate, \$25 gift card to Amazon given by CSEF
 - IEEE, Connecticut Section --- \$100 Honorable Mention
- 3060 LS Non-Invasive Colorimetric Biosensor for Early Diagnosis of Prostate Cancer Through DNA-Mediated MicroRNA Detection
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Rahul Subramaniam, Cos Cob 11
Awards: Honors = 2
 - Alexion Biotechnology Awards --- 4th Place- Biotechnology Senior High- \$200 & plaque
 - Society for In Vitro Biology --- Certificate and \$25 Amazon gift card given by CSEF
- 3061 LS Prevalence of Invasive Green Crab and Asian Crabs on Fishers Island
Fishers Island, Fishers Island School, Teacher - Carol Giles
Caroline Toldo, Fishers Island 12
Awards: Honors = 3
- 3062 LS Using a Machine Learning Algorithm to Predict if a Breast Tumor is Malignant or Benign
Westport, Staples High School, Teacher - Karen Thompson
Aniruddha Murali, Westport 11
Awards: Honors = 2
 - People’s United Bank Mathematics Awards - with ATOMIC --- 1st Place High School- \$150 from ATOMIC, Plaque, \$500 from People’s United Bank
 - Computer Science Awards --- 3rd Place High School- \$200, Plaque, Medallion
 - Intel Excellence in Computer Science Award --- \$200 & certificate
 - U.S. Metric Association --- Certificate & \$25 Amazon gift card given by CSEF
 - Mu Alpha Theta --- Certificate, \$25 Amazon gift card given by CSEF
- 3064 LS Biomimetic Degradation of Persistent Pollutants Using Common Wax Worm Sakaiensis Bacteria
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Bennett Hawley, Cos Cob 11
Awards: Honors = 1
 - Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 - Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
 - Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
 - UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 - Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- \$100 & plaque
 - Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
 - Stockholm Junior Water Prize --- Certificate, \$25 gift card to Amazon by CSEF, possible advance to further competition
 - NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
 - Mystic Aquarium - Sea Research Foundation --- \$100 and 4 Admission Tickets to Mystic Aquarium
 - University of Hartford --- University of Hartford Scholarship- For Excellence in Engineering, Science or Mathematics \$26,000
 - Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related
 - University of Connecticut - Physics Department --- UCONN Early College Experience Program: Life Sciences - Co-Op \$100 Gift Certificate
 - Yale Peabody Museum --- Family “six pack” of free passes to the Yale Peabody Museum

AWARDS

- 3067 LS The Effect of Overexpression of Mir-24 on Cell Mortality
Woodbridge, Amity Regional High School, Teacher - Catherine Piscitelli
Ulada Dubovik, Orange 12
Awards: Honors = 3
- 3068 LS Archaeological soil samples from Native grave sites may allow anthropologists to further understand northeastern Native American burial culture and ritual
Glastonbury, Glastonbury High School, Teacher - Diane Pintavalle
Fiona Jones, Glastonbury 12
Awards: Honors = 3
- 3069 LS Discovering the Pathogen Responsible for Gorgonian Wasting Syndrome on the Gorgonia ventalina sea fan
Darien, Darien High School, Teacher - Christine Leventhal
Onora Brown, Darien 12
Awards: Honors = 2
- 3070 LS Honeybee Melittin Apitherapy for Targeted Cancer Suppression and Decimation
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Dante Minichetti, Greenwich 12
Awards: Honors = 1
- Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 - UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 - Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- 3071 LS A Novel Approach To Holistic Medicine For Dog Allergies
Suffield, Suffield High School, Teacher - Mitchell Charkiewicz
Lizbeth Serrano, Hartford 11
Awards: Honors = 3
- 3072 LS Seaweed Bio-extraction: Influence of Green Algae (Ulva spp) and Sugar Kelp (Saccharina spp) on Carbon Dioxide Levels in the Atmosphere
New London, Science and Technology Magnet High School, Teacher - Karen Napolitano
Kiera McCord, Norwich 10
Awards: Honors = 3
- CASE • PepsiCo Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion
- 3073 LS A survey comparing percent colonization of various AMF species in tropical soils at varying levels of regeneration
Ridgefield, Ridgefield High School, Teacher - Patrick Hughes
Anna Landler, Ridgefield 11
Awards: Honors = 2
- 3074 LS Diagnosis of breast cancer based on native tissue fluorescence using wide-field multispectral fluorescence imaging
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Anthony Tom, Orange 11
Awards: Honors = 2
- 3075 LS Design and Fabrication of a Smart, Medicated Gel Bandage to Deliver Antibiotics to a Draining Wound
Greenwich, Greenwich High School, Teacher - Mr. Bramante
Romano Orlando, Greenwich 12
Awards: Honors = 2
- UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 - Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
 - Society for In Vitro Biology --- Certificate and \$25 Amazon gift card given by CSEF
 - Connecticut Association for the Gifted --- Leonardo Davinci Award 9-12 Grade \$50 Gift Certificate
 - Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2018 Invention Convention, April 28
- 3076 LS Effects of Bt Insecticides on the Mortality Rate of Juvenile Horseshoe Crab
Darien, Darien High School, Teacher - Mr. Pratt
John Goll, Darien 12
Awards: Honors = 3
- NYUC Pony Club Equine Award --- \$100 Cash Award or excellence in equine studies

- 3077 LS Results of Construction Vibrations on the Opening and Closing of a Stomata.
New London, Science and Technology Magnet High School, Teacher - Charles Mulligan
Luisanny Castillo, New London 10
Awards: Honors = 3
- 3078 LS How do emotions effect your blood glucose?
Bridgeport, Fairchild Wheeler Magnet High School, Teacher - Miss Veillette
Valerie Navas, Stratford 11
Awards: Honors = 3
- 3079 LS Dimethylglycine: An Investigation on the Aerobic Capacity of Yeast
Greenwich, Brunswick School, Teacher - Dana Montanez
Logan Darrin, Greenwich 10
Awards: Honors = 2
- 3081 LS Is the application of plantago major effective in inhibiting bacteria and having medicinal benefits?
Milford, Lauralton Hall, Teacher - Peter Knipp
Meghana Cheela, Milford 9
Awards: Honors = 2
- 3082 LS Investigating the Role of Sodium Chloride on Pathogenic B Cell Function in Multiple Sclerosis
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Ningxin Luo, Orange 10
Awards: Honors = 2
- 3083 LS Expression & Localization Mapping of PLEKHA7 & RNAi-Associated Proteins in HUVEC Cells
Darien, Darien High School, Teacher - Christine Leventhal
Paul Hager, Darien 12
Awards: Honors = 2
- 3084 LS Mirrors Affecting Human Behavior With Respect To Different Personality Types
Glastonbury, Glastonbury High School, Teacher - Diane Pintavalle
Amelia Packard, Glastonbury 12
Awards: Honors = 3
- 3085 LS Desmosterol Mediated Anti-inflammatory Effects in Atherogenesis are Linked to Inflammasome Activation
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Agrani Dixit, Woodbridge 12
Awards: Honors = 2
- 3086 LS The Effect of the Consumption of Organic vs. Non-Organic Lactuca Sativa on the Growth and Health of Cynthia Caterpillars
Windsor, Madina Academy, Teacher - Zaide Ibic
Ruqayyah Paine, Terryville 10
Awards: Honors = 3
• Evelyn Brown Award --- \$50 - Earth Science - Field work with Geologic or historic value
- 3087 LS Non-Invasive, Low Cost Diagnosis of Chronic Obstructive Pulmonary Disease (COPD) via Smartphone Breath Analysis
Greenwich, Greenwich High School, Teacher - Mr. Bramante
Hiba Hussain, Old Greenwich 10
Awards: Honors = 1
• Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High- \$300 & Plaque, Trip to compete at Intel ISEF
• Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion
• UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- 3088 LS The Bioaccumulation of Methylmercury in Atlantic Silversides
Darien, Darien High School, Teacher - David Lewis
Alexandra Swift, Darien 12
Awards: Honors = 3

AWARDS

- 3089 LS The Effect of the FAAH Gene on Alcohol Consumption and Inhibition in *C. elegans*
Norwich, Norwich Technical High School, Teacher - Dr. Morin
Ryan Stollman, Colchester 12
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- 3090 LS The Effect of Different Melanoma Treatments on Surface Protein Expression of Innate Immune System Cells
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Tracy Lu, Woodbridge 10
Awards: Honors = 2
- 3091 LS Plant Growth Using Vitamin Induced Water
Suffield, Suffield High School, Teacher - Mitchell Charkiewicz
Aidan Werenski, Suffield 11
Awards: Honors = 3
- 3092 LS Implications for Increased Acidity for Metabolic Function of Freshwater Microinvertebrates (*Daphnia magna*)
New London, Science and Technology Magnet High School, Teacher - Moniz
Pedro Camacho-Leon, Norwich 11
Awards: Honors = 3
• CASE • PepsiCo Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion
- 3093 LS Screening of Northeastern U.S. Bat Colonies for *Pseudogymnoascus destructans*, the Causative Agent of White Nose Syndrome
Darien, Darien High School, Teacher - David Lewis
Carson Halabi, Darien 12
Awards: Honors = 2
- 3094 LS Detecting Genetically Modified Foods
Trumbull, Trumbull High School, Teacher - Steffanie Elkins
Evani Dalal, Trumbull 10
Awards: Honors = 3
- 3095 LS Ultrasensitive, Lab-on-a-Chip Detection of HIV via a Fluorescence-based, Europium-Doped Silica Nanoparticle Immunoassay
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Joe Konno, Greenwich 11
Awards: Honors = 1
• Pfizer Life Sciences Awards --- 3rd Place- Life Sciences Senior High- \$200 & Plaque
• Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
• Society for In Vitro Biology --- Certificate and \$25 Amazon gift card given by CSEF
- 3096 LS Development of a Novel Copepod-Based Mosquito Ovitrap
Waterford, Waterford High School, Teacher - Michael O'Connor
Sophie Wang, Waterford 12
Awards: Honors = 1
• Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
• Environmental Sciences Awards with CACIWC --- 2nd Place HS- \$200, Plaque, CACIWC gifts
• Future Sustainability Awards - Eversource/energizeCT --- High School Finalist - Medallion
• J.A. Augustine Award --- \$100 for excellence in biology
• GENIUS Olympiad --- GENIUS Olympiad Competition for Excellence in HS Environmental
• Fox Pest Control Award for Environmental Management --- \$150 Cash for Excellence in Environmental Management
• Yale Peabody Museum --- Family "six pack" of free passes to the Yale Peabody Museum
- 3097 LS Correspondence between the location of brain lesions and language behavior in aphasics: A voxel lesion symptom mapping study
Glastonbury, Glastonbury High School, Teacher - Diane Pintavalle
Sameeksha Agrawal, Glastonbury 12
Awards: Honors = 2
- 3098 LS The amount of carbon dioxide released by different model motor vehicles
New London, Science and Technology Magnet High School, Teacher - Mulligan, Charles
Christopher Silva, New London 11
Awards: Honors = 3

- 3099 LS The relationship between altitude and the incidence of skin cancer
Suffield, Suffield High School, Teacher - Mitchell Charkiewicz
Laila Lawson, West Suffield 9
Awards: Honors = 3
- 3100 LS Novel Drug Inhibitors Affect Confirmation Of Cancer Suppressor Usp7
Glastonbury, Glastonbury High School, Teacher - Diane Pintavalle
Dante Morgera, South Glastonbury 12
Awards: Honors = 3
- 3101 LS Cystic Fibrosis Transmembrane Conductance Regulator Protein Misassembly in Correlation to Cystic Fibrosis
Guilford, Guilford High School, Teacher - Dr. Harry Brielmann
Mariam Kish, Guilford 11
Awards: Honors = 3
- 3102 LS Echinacea's Effect on Stress Induced Immunodeficiency in Crickets
Bridgeport, Fairchild Wheeler Magnet High School, Teacher - Keli Veillette
Olivia Wallon, Shelton 12
Awards: Honors = 2
 - Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- High School- \$150 / plaque
- 3103 LS From Tobacco to a Chemical Cocktail: A Smoker's E-cigarette Alternative May Lead to Bronchiolitis Obliterans
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Hannah Goldenberg, Old Greenwich 9
Awards: Honors = 1
 - Pfizer Life Sciences Awards --- 4th Place- Life Sciences Senior High- Plaque
 - American Society of Safety Engineers, CT Valley Chapter --- \$150 grade 9-12 project
 - TurnKey Compliance Solutions Environmental Awards --- \$300 Cash Award High School- For excellence in environmental sciences
- 3104 LS Study on the Effect of Weather Patterns and Events on the Nocturnal Migration of Birds
Westport, Staples High School, Teacher - Karen Thompson
Jory Teltser, Westport 11
Awards: Honors = 3
- 3105 LS Does the Consumption of Certain Foods Affect Angiogenesis?
Manchester, Manchester High School, Teacher - Megan Rader
Taylor Keyt, Manchester 12
Awards: Honors = 3
- 3106 LS Magnesium Micromotor-Enabled Delivery of Oral, All-Natural Antibacterials for the Effective Targeting and Treatment of Urinary Tract Infection Causality in Infant Mortality
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Charlotte Hallisey, Greenwich 10
Awards: Honors = 1
 - Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 - Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- 3107 LS The Effect of Overexpression of CREB-Binding Protein (CBP) on Gene Expression of Tumor Suppressor p53 in Mus musculus Breast Carcinoma (BRCA) Cells
Windsor, Academy of Aerospace and Engineering, Teacher - Lili Aramli
Rishika Maitra, Middletown 12
Awards: Honors = 3
- 3108 LS Determining the Effect of Flow on Time Perception
Redding, CT STEM FAIR - Amity Regional High School, Teacher - Deborah Day
Alicia Gopal, Woodbridge 9
Awards: Honors = 2
- 3109 LS Kinetics of Sucrose Conversion to Glucose Using Enzyme (Invertase) Across a Dietary Spectrum
New London, Science and Technology Magnet High School, Teacher - Isabela Moniz
Finella Smith, Pawcatuck 9
Awards: Honors = 3

AWARDS

- 3110 LS New Findings: Optimal Temperature for Quail Egg Production as a Function of Ambient Temperature
Suffield, Suffield High School, Teacher - Mitchell Charkiewicz
Robert Mueller, West Suffield 12
Awards: Honors = 2
- 3111 LS The Effect of Sea Level Rise and Salt Marsh Change on the Population of *Uca Pugnax*
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Natalie Prinz, Bethany 10
Awards: Honors = 2
• Alumni Botany Awards --- Alumni High School Botany Award- \$100 Cash
- 3501 LST Isolating *Bacillus thuringiensis* from Soil Samples in Order to Develop a More Effective Biopesticide for Agricultural Lepidopteran Pests.
Norwich, Norwich Tech - Green STEP, Teacher - Aleatha Pelloni
Kelsey Williams, Gales Ferry 11 Douglas Rediger Baltic 11
Awards: Honors = 3
- 3502 LST The Effects Sodium Chloride (Road Salt) has on the Surrounding Environment When Used as an Ice Melting Agent.
Suffield, Suffield High School, Teacher - Mitchell Charkiewicz
Madison Gadomski, West Suffield 11 Jessica Wessner West Suffield 11
Awards: Honors = 3
- 3503 LST An Investigation of the Behavioral and Reproductive Patterns of *Hemigrapsus Sanguineus*
Greenwich, Brunswick School, Teacher - Dana Montanez
Asher Porphy, Harrison 11 Timothy Saunders New Canaan 11
Awards: Honors = 3
- 3504 LST Astrology in Pop Culture and history. Is it accurate?
Suffield, Suffield High School, Teacher - Mitchell Charkiewicz
Abigail Sperrazza, Suffield 10 Jenna Uzdarwin Suffield 10
Awards: Honors = 3
- 3505 LST Perceptions surrounding mental illness can be diminished with education and knowledge about Dissociative identity disorder
Norwich, Norwich Technical High School, Teacher - Lisa Elliott
Emily Cherwin, Norwich 12 Makayla Carson Quaker Hill 12
Awards: Honors = 2
- 3506 LST The Effects of Peppermint on Reaction Time and Performance
Bridgeport, Fairchild Wheeler Magnet High School, Teacher - Keli Veillette
Emma Turchuk, Shelton 11 Fidel Gomez Bridgeport 11
Awards: Honors = 3
- 3507 LST The Application of Magnetotactic Bacteria for the Efficient Production of Energy
Suffield, Suffield High School, Teacher - Mitch Charkiewicz
Ekaterina Fraser, Suffield 11 Shreedula Balakrishnan Suffield 11
Awards: Honors = 3
- 3510 LST Portable Emergency Water Filtration System
New Britain, Goodwin Tech - Green STEP, Teacher - Michael Scott
Michael Lopez, Bristol 10 Thomas Batty New Britain 10 James Tanski Plainville 10
Awards: Honors = 3
- 3511 LST Using the Tidal Zone as a Renewable Source for Antibiotic-Producing Microbes
Norwich, Norwich Tech - Green STEP, Teacher - Aleatha Pelloni
Edward Russell, Colchester 11 Nathanael Padgett Lebanon 11
Awards: Honors = 2
- 3512 LST Solar Powered Golf Cart
Danielson, Ellis Tech - Green STEP, Teacher - Cassandra Green
Dylan Bonneau, Thompson 10 Aaron Breen Brooklyn 10 Michael Page Brooklyn 10
Awards: Honors = 3
• Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion

- 3513 LST Saving the Honey Bee: Designing a Revolutionary Pollen Mineral Analysis Kit for Beekeepers.
Suffield, Suffield High School, Teacher - Mitch Charkiewicz
Joseph Gleason, West Suffield 12 Samatar Wehelie Suffield 12
Awards: Honors = 3
- 3514 LST The Effect of Soil Acidity on Stomatal Concentrations of Solanum lycopersicum.
New London, Science and Technology Magnet High School, Teacher - Karen Napolitano
Sara Beth Bouchard, Waterford 10 Oliver Guijarro-Sines New London 10
Awards: Honors = 2
- 3515 LST Improving Durability and Strength of Bombyx mori Silk by Fortifying Primary Food Source
Greenwich, Brunswick School, Teacher - Jarrett Shine
Lucas Delgado, Riverside 10 Alexander Burdick Riverside 10
Awards: Honors = 1
• Pfizer Life Sciences Awards --- 3rd Place - Life Sciences Senior High Team - Plaque
- 3516 LST Evaluating an LCHAD Deficiency Model System Created Using CRISPR/Cas9 and C. elegans
Norwich, Norwich Technical High School, Teacher - Jesse Morin
Courtney Michaud, Norwich 12 Kyle Tempesta Uncasville 12
Awards: Honors = 2
• Connecticut Science Supervisors Association --- \$125 for a high school project
- 3517 LST Solar Hybrid Organic Charger (SHOC)
New Britain, Goodwin Tech - Green STEP, Teacher - Mr. Hinners
Juan Ospina, New Britain 11 Daneirys Rivera Bristol 11 Xavier Santiago Bristol 11
Awards: Honors = 2
- 3518 LST The Intensity of Marine Bioluminescent Organisms in Manipulated Environments
Windsor, Academy of Aerospace and Engineering, Teacher - Dr. Aramli
Tanu Singh, South Windsor 12 Dharini Jasti Ellington 12
Awards: Honors = 3
- 3519 LST Education Increases Empathy Towards Autism.
Norwich, Norwich Technical High School, Teacher - Lisa Elliott
Kalli Campbell, Uncasville 12 Tayler Plante Jewett City 12
Awards: Honors = 2
- 3521 LST Survivorship of Fresh Crustacea in Temperature Extremes
New London, Science and Technology Magnet High School, Teacher - Charles Mulligan
Jo Potter, New London 11 Jaelynn Potter New London 10
Awards: Honors = 3
- 3522 LST Investigation of the Tenascin-X Protein and its Role in Ehlers-Danlos Syndrome
Norwich, Norwich Technical High School, Teacher - Jesse Morin
Brianna Dziekan, Baltic 12 Athena Missios Uncasville 12
Awards: Honors = 2
- 3523 LST The Effect of Turmeric on the Gene Expression of Breast Cancer Cells in Mice
Windsor, Greater Hartford Academy of Math and Science, Teacher - Dr. Lili Aramli
Malavika Madan, South Windsor 12 Rahul Nimmagadda Avon 12
Awards: Honors = 2
- 3524 LST How will various acids affect the decomposition rate of an apple?
Hartford, Bulkeley high School, Teacher - Ms.Quiles
Daviely Rivera, Hartford 11 Kiana Torres Hartford 11
Awards: Honors = 3
- 3525 LST Creating Renewable Light Source in Dionaea muscipula Using GFP
Norwich, Norwich Tech - Green STEP, Teacher - Pelloni
Hailey Bill, Baltic 11 Emerald Haller Preston 11
Awards: Honors = 2

AWARDS

- 3529 LST The Impact of Physical Activity on Human Reaction Time.
Suffield, Suffield High School, Teacher - Mitchell Charkiewicz
Bruce Wilson, Suffield 11 Kyle Englander Suffield 11 Michael Sattan Suffield 11
Awards: Honors = 2
• Samantha Freeman Award for Excellence in Sports Science or Engineering --- For Excellence in Sports Science or Engineering by a High School student, \$100 cash
- 3530 LST Heated Soil: Does Soil Temperature Effect Plant Growth? A Solar Greenhouse with Radiant Heat
Danielson, Ellis Tech - Green STEP, Teacher - Cassandra Green
Colby Loiselle, Pomfret 10 Macory Merrill Danielson 10 Matthew Bellavance Moosup 10
Awards: Honors = 2
• Energize CT/eesmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion
• Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- 3531 LST Which Starch Plant Produces the Most Fuel?
Hartford, Bulkeley High School, Teacher - Genesis Quiles-Galarza
Sanya Hewitt, Hartford 12 Alison Ramirez-Cahuana Hartford 12 Merceda McClain Hartford 12
Awards: Honors = 3
- 3532 LST The Effects of Mental Stress on Physical Health
Bridgeport, Fairchild Wheeler Magnet High School, Teacher - Ms.Veillette
Alex Aquino, Bridgeport 11 Erin McMurray Fairfield 11
Awards: Honors = 2
- 3533 LST The applying the understanding of running for the improvement of runners.
Suffield, Suffield High School, Teacher - Mitch Charkiewicz
Charles Rose, Suffield 10 Monica van Ginkel Suffield 10
Awards: Honors = 3
- 3534 LST Applying Educational Approaches to Reduce the Stigmas Associated with Attention Deficit Hyperactivity Disorder
Norwich, Norwich Technical High School, Teacher - Lisa Elliott
Halle Baron, Danielson 12 Sylkia Hernandez Plainfield 12
Awards: Honors = 2
- 3535 LST The Effect of pH on the Dissolved Oxygen Level in the Long Island Sound
Darien, Darien High School, Teacher - David Lewis
Corinne Bevill, Darien 12 Emily DeNunzio Darien 12
Awards: Honors = 3
- 3536 LST MyMedWallet: Personalized Medical Organizer App
Avon, Avon High School, Teacher - Mrs. Andrea Galuska
Jaya Hari, Avon 10 Dheepa Hari Avon 10
Awards: Honors = 2
- 3537 LST Human Brain - Testing Musical Notes
Bridgeport, Bassick High School, Teacher - Elecy Varghese
Topacio Reyes, Bridgeport 9 Itzel Sanchez Bridgeport 9
Awards: Honors = 3
- 3538 LST Methylmercury Concentrations in Fish Tissue: A Further Analysis of Fish in the Long Island Sound vs. the Atlantic Ocean
Greenwich, Brunswick School, Teacher - Dana Montanez
AJ Delgado, Riverside 11 Ryan Mulshine Greenwich 11
Awards: Honors = 2
- 3539 LST Drug Solubility: Influence of Acid Concentration on Solubilized and Unsolubilized Ibuprofen Over Time
New London, Science and Technology Magnet High School, Teacher - Charles Mulligan
Ella Cook, Stonington 9 Julissa Rodriguez New London 9
Awards: Honors = 2

- 3540 LST How can color therapy help people improve their well being
Hartford, Bulkeley High School, Teacher - Genesis Quiles-Galarza
Tatyana Santiago, Hartford 11 Jeaneily Mendoza Hartford 11
Awards: Honors = 3
- 3541 LST Modifying Adolescent Behavior by Educating them on Bipolar Disorder to Diminish the Stigmas associated
Norwich, Norwich Technical High School, Teacher - Lisa Elliott
Debbie Garcia, Norwich 12 Chloe Guzman Pawcatuck 12
Awards: Honors = 2
- 3542 LST Eye Color Ability
Shelton, Shelton High school, Teacher - Christine McNamara
Trista Oddo, Shelton 9 Jaylee Zwaan Shelton 9
Awards: Honors = 2
- 3543 LST Investigation of Spatial Learning in Apteris Drosophila Melanogaster Using a Novel Behavioral Assay
East Lyme, East Lyme High School, Teacher - Frederic Clark
Andrew Zhang, East Lyme 12 Mingfei Duan East Lyme 12 Alexa Stewart Niantic 12
Awards: Honors = 1
• Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High Team- \$500 (split) & Plaque
- 3544 LST Education’s Impact on Perceptions About Borderline Personality Disorder
Norwich, Norwich Technical High School, Teacher - Lisa Elliott
Noelis Guzman, Norwich 12 Ashley Varjenski Colchester 12 Kaitlyn Stripling Voluntown 12
Awards: Honors = 2
- 3545 LST Doggy Doorbell
Shelton, Shelton High School, Teacher - Christine McNamara
Phoebe Rodia, Shelton 10 Iris White Shelton 10 Brooke Weiss Shelton 9
Awards: Honors = 2
- 3546 LST A Lense to Explore Life on Other Planets: Using Targeted Genome Editing Technologies to Test Survival in Extraterrestrial Environments
Greenwich, Brunswick School, Teacher - Dana Lee Montanez
Thomas Foley, Greenwich 11 Thomas Kimberlin Greenwich 11
Awards: Honors = 1
• Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High Team- \$300 (split) & Plaque
• The Jackson Laboratory --- \$500 - The Jackson Laboratory Award for Excellence in Genomics Related Research
- 3547 LST What “Bugs” Gromphadorhina portentosa?
Norwich, Norwich Technical High School, Teacher - Aleatha Pelloni
Gabrielle Martin, North Stonington 11 Samantha Grott Bozrah 11
Awards: Honors = 3
- 3548 LST Comparative Analysis of the Effects of Different Dietary Supplements on Breast Cancer Cells
Windsor, Academy of Aerospace and Engineering, Teacher - Dr. Lili Aramli
Anthony Antony, Farmington 11 Jonathan Spafford Windsor 11
Awards: Honors = 3
- 3550 LST Knowledge will increase behavioral changes and acceptance of individuals experiencing obsessive-compulsive disorder
Norwich, Norwich Technical High school, Teacher - Lisa Elliott
Kaitlin Reen, Plainfield 12 Genesis Tavarez New London 12
Awards: Honors = 3
- 3551 LST Ants Under Pressure
East Lyme, East Lyme High School, Teacher - Frederic Clark
Jonathan Tan, East Lyme 11 Eric Gu East Lyme 11 Connie Tang Salem 11
Awards: Honors = 3

AWARDS

Physical Sciences

- 4001 PT Creating Electricity using Gravity
Suffield, Suffield Middle School, Teacher - Mitchell Charkiewicz
John-Henry Burke, Suffield 8 Alexander Litvak Suffield 8
Awards: Honors = 3
• Future Sustainability Awards - Eversource/energizeCT --- Middle School Finalist - Medallion
- 4002 PT Magnetic Top Leitation
Bridgeport, Roosevelt School, Teacher - Ms Simon
Moez Khawaja, Bridgeport 7 Jordan Boothe Bridgeport 7 Troy Holtzer bridgeport 7
Awards: Honors = 3
- 4003 PT Battery Breakdown
Waterbury, Our Lady of Mt. Carmel School, Teacher - Tricia Ann Vertuccio
Logan Pilla, Waterbury 7 Seth Glinsky Waterbury 7
Awards: Honors = 3
- 4004 PT “Perpetual Motion” Or “Perpetual Failure”
Danbury, St. Gregory the Great School, Teacher - Christine Fahey
Thomas Fanelli, Danbury 7 Daniel Goetz Danbury 7
Awards: Honors = 1
• Lockheed Martin Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion
- 4005 PT Creamalicious
Greenwich, Greenwich Catholic School, Teacher - Mrs. Lutz
Sofia Caracciolo, Stamford 7 Morgan Adamson Stamford 7 Maria Profili Greenwich 7
Awards: Honors = 3
• Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- 4006 PT Lets Bounce
Shelton, Shelton Intermediate School, Teacher - Tina Genova
Alexa Civale, Shelton 8 Isabella Silvis Shelton 8
Awards: Honors = 1
• Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
- 4007 PT The Nexu Helmet
Fairfield, Assumption Catholic School, Teacher - Laurie Strazza
Joseph Grabowski, Fairfield 8 Bronson Vo Bridgeport 8
Awards: Honors = 3
• Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion
- 4008 PT Catapult Lab
New Haven, Worthington Hooker Middle School, Teacher - Mr Jones
Dusty Gibbon, New Haven 7 Noah Brown New Haven 7
Awards: Honors = 2
- 4009 PT Crystals!
Hartford, Renzulli Academy, Teacher - Kelley Howe
Melanie Ramos, Hartford 8 Pwit Phoo Hartford 8
Awards: Honors = 2
- 4010 PT The Egg Drop
Stamford, The Catholic Academy of Stamford, Teacher - Mr. Hyland
Robert Grande, Stamford 7 Perry Kounavelis Stamford 7
Awards: Honors = 3
- 4011 PT Surviving the Cold!
West Hartford, St. Timothy Middle School, Teacher - Danielle Locke
Connor Dainiak, West Hartford 7 Griffin Oshaughnessy West Hartford 7
Awards: Honors = 2

- 4012 PT The Stretchiness of slime
 Shelton, Shelton Intermediate School, Teacher - Mr. Rudman
 Kayla Bretan, Shelton 8 Maddigan Leifer Shelton 8 Autumn Murphy Shelton 8
 Awards: Honors = 3
- 4013 PT How does temperature affect crystal growth?
 Suffield, Suffield Middle School, Teacher - Mr. Mitch Charkiewicz
 Arya Vasantlal, Suffield 8 Avie Vasantlal Suffield 8
 Awards: Honors = 3
- 4014 PT Desalination: A Clean Water Alternative
 Fairfield, St. Thomas Aquinas Catholic School, Teacher - Philip Flynn
 Andrew Cimmino, Fairfield 7 Joshua Dixon Bridgeport 7
 Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion
 - Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion
 - National Oceanic and Atmospheric Administration --- Certificate and medallion, ,and \$25 Amazon gift card given by CSEF
- 4015 PT Preventing SIDS From Suffocation
 Bethany, Amity Reg Middle School - Bethany Campus, Teacher - Kevin Berean
 Ellina Medovnikov, Woodbridge 8 Audrey Marin Woodbridge 8
 Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
 - Computer Science Awards --- 3rd Place Middle School- \$100, Trophy, Medallion
 - United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
 - Spirit of Invention Award --- \$100 Cash and Plaque for Inventive Concepts
- 4016 PT Solving the Flood Problem: One Rock at a Time
 New Haven, Worthington Hooker Middle School, Teacher - Douglas Jones
 Sage Urban, New Haven 8 Amelia Cox New Haven 8
 Awards: Honors = 2
- 4017 PT Catch'em With Color
 Hartford, Renzulli Academy, Teacher - Kelley Howe
 Elhame Adam, Hartford 7 Mikhaila Entsiwah Manchester 7
 Awards: Honors = 3
- 4018 PT Black Light Experiment
 Baltic, Sayles School, Teacher - Miss Roy
 Brendan Bezanson, Sprague 7 Hunter Bittman Sprague 7
 Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences MS Team- trophy, invite to compete Broadcom MASTERS
- 4019 PT Converting Sound Energy into an Electrical Energy
 Suffield, Suffield Middle School, Teacher - Mr Mitch Charkiewicz
 Ayush Mehta, Suffield 8 Cole Cutler Suffield 8 Jack Shanks Suffield 8
 Awards: Honors = 3
- Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion
- 4020 PT Overpowering Radiation
 Danbury, St. Gregory the Great School, Teacher - Christine Fahey
 William Murphy, Danbury 8 Joseph Falcao Danbury 8
 Awards: Honors = 3
- 4021 PT Art of Drones
 New Canaan, St. Aloysius School, Teacher - Deborah Phillips
 Andrew Tully, Norwalk 8 Kali Dimitrov Norwalk 8 Alex Lanzillotti stamford 8
 Awards: Honors = 3

AWARDS

- 4022 PT Brilliant Bulbs
Bridgeport, Blackham School, Teacher - Patricia Wrenn
Jaden Jones, Bridgeport 8 Michael Molina Bridgeport 8
Awards: Honors = 2
- 4023 PT Environmental monitoring robot that uses temperature and ammonia level sensors to measure the environment in the area around the robot.
West Hartford, King Philip Middle School, Teacher - Robert Felekey
Alexander Belsham, West Hartford 8 Andrew Belsham West Hartford 8
Awards: Honors = 3
- 4024 PT Healthy Or Harmful Application Prototype
New London, Bennie Dover Jackson Middle School, Teacher - Barber
Taavi Veltheim, New London 8 Carissa Mims Jewett City 8
Awards: Honors = 3
- 4025 PT Wind vs Water
Danbury, St. Gregory the Great School, Teacher - Christine Fahey
Anna Flaherty, New Fairfield 8 Arshei Flores New Milford 8
Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion
 - Energize CT/eesmarts Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion
 - Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion
 - Association for Women Geoscientists --- Certificate & \$25 gift card to Amazon given by CSEF
 - Constellation, an Exelon Company --- 1st: \$100.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
 - Frank J. Link Family Award for Energy Related Research --- Frank J. Link Award for Energy Related Research - \$50
- 4026 PT How does the type of cup affect how long the coffee will stay hot?
Bridgeport, Geraldine Claytor Magnet Academy, Teacher - Logan Whitley
Iris Rivera, Bridgeport 7 Clementine Gnoto Bridgeport 7 Ahkiriah Johnson Bridgeport 7
Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- Finalist - Physical Science sJr Team - CSF Medallion
- 4027 PT C-9: Project Solar Drone Project XD3
Hartford, Renzulli Academy, Teacher - Ms.Howe
Anthony Lessor, Bloomfield 7 Raphael Burgos Hartford 7 Alano Oquendo Hartford 7
Awards: Honors = 2
- Future Sustainability Awards - Eversource /energizeCT --- Middle School Finalist - Medallion
- 4030 PT Case No: 520910 Fingerprint Finding
Hartford, Renzulli Academy, Teacher - Kelly Howe
Danielle James, East Hartford 7 Nasere Lewin Hartford 7
Awards: Honors = 2
- 5001 P7 Powered Up Potatoes
New Haven, Worthington Hooker Middle School, Teacher - Mr. Jones
Julia Rosado, New Haven 7
Awards: Honors = 3
- 5002 P7 Pineapple Punch
West Hartford, St. Timothy Middle School, Teacher - Danielle Locke
Thomas Baldini, West Hartford 7
Awards: Honors = 2
- Alexion Biotechnology Awards --- 2nd Place- Biotechnology 7th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS
- 5003 P7 Power Walking with Piezoelectricity
Wilton, Middlebrook School, Teacher - Kendra Norman
Sebastien Shaw, Wilton 7
Awards: Honors = 2
- IEEE, Connecticut Section --- \$100 Honorable Mention

- 5004 P7 Determining the count of electrolytes in various drinks
New Haven, St. Bernadette School, Teacher - Mr Kerry Martens
Isabella Purcell, East Haven 7
Awards: Honors = 2
- 5005 P7 Possible uses of magnets in modern construction and transportation
Pawcatuck, St. Michael School, Teacher - Ann-Helene Grossomanides
William Wholean, Pawcatuck 7
Awards: Honors = 3
- 5006 P7 The impact of angle on the amount of energy created by solar panels
Newtown, St. Rose of Lima School, Teacher - Mrs Damalas
Thomas Simms, Newtown 7
Awards: Honors = 2
- 5007 P7 What Materials In Homes Can Block Wi-Fi Signals?
Danbury, St. Gregory the Great School, Teacher - Christine Fahey
Aiden Doolabh, Danbury 7
Awards: Honors = 2
- 5008 P7 Battery Life
Newtown, St. Rose of Lima School, Teacher - Ms Damalas
Isabella Thomas, Oxford 7
Awards: Honors = 3
• UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- 5009 P7 How Do Mixtures of Chiral Substances Affect the Rotation of Plane Polarized Light
Groton, Sacred Heart School, Teacher - Dr. Juan Pacheco
Payton Noe, East Lyme 7
Awards: Honors = 1
• Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion
- 5010 P7 Battle of the Bubbles
Stamford, The Catholic Academy of Stamford, Teacher - Mr. Hyland
Eden Cheung, Stamford 7
Awards: Honors = 3
- 5011 P7 From Biomass To Biogas
New Haven, Betsy Ross Arts Magnet School, Teacher - Roisin Macdonald
Matilda Pethrick, Stratford 7
Awards: Honors = 1
• Lockheed Martin Physical Sciences Awards --- 5th Place- Physical Sciences 7th Grade Individual - trophy
• CASE • PepsiCo Urban School Challenge Awards with IBM --- 4th Place Middle School - Trophy, Medallion
• Environmental Sciences Awards with CACIWC --- 3rd Place MS- \$100, Trophy, CACIWC gifts
• Energize CT/eesmarts Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
• Future Sustainability Awards - Eversource /energizeCT --- 3rd Place Middle School - \$100 Cash and Trophy
• Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF
• Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School, Physical Sciences
• Frank J. Link Family Award for Energy Related Research --- Frank J. Link Award for Energy Related Research - \$50
- 5012 P7 More Water, Less Carbon.
New Canaan, St. Aloysius School, Teacher - Deborah Phillips
Jackson Saucedo, Darien 7 Awards: Honors = 2
• American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF
- 5013 P7 Science Behind Slime
Hartford, Renzulli Academy, Teacher - Kelley Howe
Jennifer Urbano, Hartford 7
Awards: Honors = 3

AWARDS

- 5014 P7 Sweet And Bitter Turned To Ash
Hartford, Environmental Sciences Magnet School at Mary Hooker, Teacher - Mrs. Rebecca Hays
Adrian Lewczuk, New Britain 7
Awards: Honors = 2
- 5015 P7 The importance of ammonia in the formation of salt crystals
Bridgeport, Park City Prep Charter School, Teacher - Mrs. Boudreau
Nathys Barros, Bridgeport 7
Awards: Honors = 3
- 5016 P7 Marble Roller Coaster How Much Height to Loop the Loop?
Windsor, St. Gabriel School, Teacher - Miss Meg Rosa
Michael Sponzo, Windsor 7
Awards: Honors = 3
- 5017 P7 The Buzzing Eye - Helping The Blind
Wilton, Middlebrook School, Teacher - Paige Randall
Varun Vadhera, Wilton 7
Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences 7th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
 - Barnes Aerospace Applied Technology Awards --- 1st Place Middle School - \$300 and Trophy, Medallion
 - United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
 - IEEE, Connecticut Section --- \$250 Honors Award -Junior
 - Zepke Award --- \$100 - For the Best Use of Electronic Circuitry- Middle School
- 5018 P7 Can a Magnet Clean Up An Oil Spill
Fairfield, St. Thomas Aquinas Catholic School, Teacher - Phillip Flynn
James Cunningham, Fairfield 7
Awards: Honors = 2
- NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- 5019 P7 That's How The Cookie Crumbles
Southington, J.A. DePaolo Middle School, Teacher - Donna Shea
Madalyn McAuliffe, Southington 7
Awards: Honors = 3
- 5020 P7 Rollin' Along
Plantsville, J.F. Kennedy Middle School, Teacher - Mrs. Pepin
Alisha Paul, Southington 7
Awards: Honors = 3
- 5021 P7 Can Gravity Sort Beads?
Groton, Sacred Heart School, Teacher - Juan Pacheco
Avery Rembish, Groton 7
Awards: Honors = 3
- 5022 P7 Dirty Composition
Stratford, St. Mark School, Teacher - Mrs. Olins
John Pastorok, Stratford 7
Awards: Honors = 3
- 5023 P7 The effect of air pressure on the dynamics of ball bouncing.
Newtown, St. Rose of Lima School, Teacher - Nona Geloso
Jaxon Geloso, Oxford 7
Awards: Honors = 3

- 5024 P7 Cure For The Blues: A green, low cost adsorbent for removal of dye from aqueous solutions
Glastonbury, Smith Middle School, Teacher - Mary Coburn
Anika Ahilan, Glastonbury 7
Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS
 - Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- Middle Schools- \$100 / trophy
 - Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
 - Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt, First Place Junior
 - Connecticut Science Supervisors Association --- \$125 for a middle school project
 - Jon Stone Memorial Award --- \$150 cash for Innovative Engineering
- 5025 P7 Reusable Hand Warmer Magic
Bethel, St. Mary School, Teacher - Kate McDonald
Kayla O'Marra, Bethel 7
Awards: Honors = 2
- Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Life Science
- 5026 P7 Effect Of Energy Drinks on Tooth Enamel
Newtown, St. Rose of Lima School, Teacher - Mrs. Damalas
Nicholas Prieto, Newtown 7
Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion
- 5027 P7 How Do Variables Impact The Amount of Energy Collected by a Wind Turbine
Bozrah, Fields Memorial School, Teacher - Mrs. E. Brown
Alanna Brady, Bozrah 7
Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS
 - People's United Bank Mathematics Awards - with ATOMIC --- 3rd Place Middle School - Trophy , \$100 from People's United Bank
 - Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- Middle School- \$200 / trophy
 - Energize CT/eesmarts Alternative/Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy
 - Future Sustainability Awards - Eversource/energizeCT --- Middle School Finalist - Medallion
 - UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
 - Association for Women Geoscientists --- Certificate & \$25 gift card to Amazon given by CSEF
 - Society of Women Engineers - Hartford Section --- Scientific Calculator
 - MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, middle school, \$100 cash award
 - Stanley Lessoff Award for Excellence In Analytical Technique --- \$100 Cash and Plaque
- 5028 P7 The Effect of Fin Surface Area on Rocket Rotation at Different Locations on the X, Y and Z Axes in Relation to its Launch Point, While in Flight
Danbury, Westside Middle School Academy, Teacher - Jon Neuhausel
Aidan Scott, Danbury 7
Awards: Honors = 2
- 5029 P7 How Safe Is Your Water?
Windsor, St. Gabriel School, Teacher - Meg Rosa
Katherine Wilkos, Windsor 7
Awards: Honors = 2
- American Society of Safety Engineers, CT Valley Chapter --- \$100 grade 7-8 project
- 5030 P7 Black Holes - The Insatiable Hunger
Avon, Talcott Mountain Academy, Teacher - Mr. Meredith
Alexandros Cooke-Politikos, Avon 7
Awards: Honors = 3
- Astronomical Society of Greater Hartford --- Junior Project-\$100, subscription to Sky and Telescope magazine and ASGH meeting invitation

AWARDS

- 5031 P7 A computer can use machine learning to teach itself to be as good or better at blackjack than the experts.
Greenwich, Greenwich Country Day School, Teacher - Sam Rosenfeld
C. Brooks Harris, Greenwich 7
Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences 7th Grade Ind. - trophy and Invitation Compete in 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
 - Computer Science Awards --- 1st Place Middle School - \$300, Trophy and Medallion
- 5032 P7 Rust-Acidity (How do different levels of acid rain affect some kinds of iron?)
Stratford, St. Mark School, Teacher - Mrs. Linn Olins
Elizabeth Long, Milford 7
Awards: Honors = 3
- American Society for Metals - Hartford Chapter --- \$100 Check
- 5033 P7 Staining Effects of Five Popular Beverages Using Eggshells to Represent Teeth
Cheshire, St. Bridget School, Teacher - Michelle Carroll
Juliana Janezic, Southington 7
Awards: Honors = 2
- 5034 P7 The Efficiency of Different Types of Algae in Creating Self-Sustaining Microbial Fuel Cells
Danbury, St. Gregory the Great School, Teacher - Christine Fahey
Max Coisman, Danbury 7
Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion
 - Energize CT/eesmarts Alternative/Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy
 - Future Sustainability Awards - Eversource/energizeCT --- 1st Place Middle School - \$300 Cash and Trophy
 - Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & trophy and Invitation Compete in Broadcom MASTERS
 - The Children's Museum --- 1 family 4-Pack of Admission Passes to the Children's Museum
- 5036 P7 The Traft
Greens Farms, Greens Farms Academy, Teacher - Mrs. Oshin
William McGonagle, Southport 7
Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion
 - John B. Trevor Award in Electrical Engineering --- \$500 cash award for an innovative electronic or electrical project
- 5037 P7 Watt's the Cost?
Groton, Sacred Heart School, Teacher - Dr. Juan Pacheco
Connor Harris, Mystic 7
Awards: Honors = 2
- 5038 P7 The Heat Is On
New Haven, Conte West Hills School, Teacher - Vanessa Clayton
Jose Sarango, New Haven 7
Awards: Honors = 2
- 5039 P7 The Next Climbing Helmet
Greens Farms, Greens Farms Academy, Teacher - Ms. Oshin
Jamie Paterson, Stamford 7
Awards: Honors = 2
- 5501 P8 Cracking M&Ms in the Microwave
New Haven, St. Bernadette School, Teacher - Mr. Kerry Martens
Christopher Enzo De Castro, Milford 8
Awards: Honors = 2
- 5502 P8 What Causes Your Stains?
East Hartford, St. Christopher School, Teacher - Dr. James Tanguay
Tatiana Rosario, East Hartford 8
Awards: Honors = 3

- 5504 P8 Building an app
Bethel, St. Mary School, Teacher - Kate McDonald
Steven Reese, Newtown 8
Awards: Honors = 3
- 5506 P8 The Effect of Barometric Pressure on the Speed of Wifi
Danbury, Westside Middle School Academy, Teacher - Jonathan Neuhausel
Stella Walker, Danbury 8
Awards: Honors = 2
• J.A. Augustine Award --- \$100 for excellence in physical sciences
- 5507 P8 Green Step
New London, Bennie Dover Jackson Middle School, Teacher - Willie Barber
Jennifer Fiestas, New London 8
Awards: Honors = 3
• Energize CT/esmarts Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion
• Constellation, an Exelon Company --- 2nd: \$50.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy
- 5508 P8 The Effect of Brand Selection on the UV Blocking Ability of Sunscreen
Pawcatuck, St. Michael School, Teacher - Mrs. Grossomanides
Samuel Montalto, Westerly 8
Awards: Honors = 2
- 5509 P8 Invisible Force: Creating Magnetic Fields
Southington, Southington Catholic School, Teacher - Martina Shoukralla
John Galvin, Southington 8
Awards: Honors = 3
- 5510 P8 Aqua-Safe: Helping the World, One Bucket at a Time
Trumbull, Christian Heritage School, Teacher - Theresa Miller
Alec Mota, Derby 8
Awards: Honors = 1
• Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
• American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF
- 5511 P8 Don't Rock The Boat
West Hartford, St. Timothy Middle School, Teacher - Mrs. Locke
Brooke Barry, West Hartford 8
Awards: Honors = 1
• Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
• Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- 5512 P8 Slip Hazard Alarm Robot H2OhNoBot
West Hartford, King Philip Middle School, Teacher - Robert Felekey
Theodore Zhang, West Hartford 8
Awards: Honors = 1
• Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
• UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
• IEEE, Connecticut Section --- \$100 Honorable Mention
- 5513 P8 Lights, Camera, Refraction
Stratford, St. Mark School, Teacher - Mrs. Olins
Julia Sciallo, Stratford 8
Awards: Honors = 3
- 5514 P8 Copper Water
Hartford, Environmental Sciences Magnet School at Mary Hooker, Teacher - Ms.Hays
Yanayra Rosa, Newington 8
Awards: Honors = 3

AWARDS

- 5516 P8 The Effect of Salt on the Power Output of a Microbial Fuel Cell
Trumbull, Christian Heritage School, Teacher - Daniel Cote
Natania Muriel, Shelton 8
Awards: Honors = 2
- 5517 P8 Sensors and Robotics
Stamford, The Catholic Academy of Stamford, Teacher - Mr. Hyland
Lucas Duarte, Stamford 8
Awards: Honors = 3
- 5518 P8 Sneaker Feature 2
Shelton, Shelton Intermediate School, Teacher - Ms. Genova
Sofia Gasbarro, Shelton 8
Awards: Honors = 2
- Samantha Freeman Award for Excellence in Sports Science or Engineering --- For Excellence in Sports Science or Engineering by a Middle School student, \$100 cash
- 5519 P8 Capillary Action
Windsor, St. Gabriel School, Teacher - Ms Meg Rosa
Timothy Paradise, West hartford 8
Awards: Honors = 2
- 5520 P8 Cosmetic Science: What Product Best Protects Lips
Fairfield, St. Thomas Aquinas Catholic School, Teacher - Mr. Philip Flynn
Isabelle Morse, Stratford 8
Awards: Honors = 2
- 5521 P8 Money Laundry
Southington, Southington Catholic School, Teacher - Martina Shoukralla
Ana Cawley, Southington 8
Awards: Honors = 3
- 5522 P8 Quiet as a mouse
New Haven, Worthington Hooker Middle School, Teacher - Douglas Jones
Aminah Fields, New Haven 8
Awards: Honors = 3
- 5523 P8 Effect of Spiral Spacing on Conversion Efficiency of Horizontal Axis Spiral Wind Turbine
Danbury, Westside Middle School Academy, Teacher - Jonathan Neuhausel
Timothy Chen, Danbury 8
Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences 8th Grade Ind. - \$200 & trophy, invite to compete Broadcom MASTERS
 - UTC Aerospace Systems Engineering Awards --- 1st Place- Engineering Middle School- \$400 & trophy and Invitation Compete in Broadcom MASTERS
- 5524 P8 3D Printed Shoes for Comfort, Support & Performance
Bethany, Amity Reg Middle School - Bethany Campus, Teacher - Kevin Berean
Parker Paragas, Woodbridge 8
Awards: Honors = 3
- 5525 P8 Temperature and Magnets
Danbury, St. Joseph School, Teacher - Mrs. Reilly
Aidan Gage, Danbury 8
Awards: Honors = 3
- 5526 P8 Wifi? Why not?
Danbury, St. Gregory the Great School, Teacher - Christine Fahey
Jennifer Hanley, Danbury 8
Awards: Honors = 3

- 5527 P8 Stormwater Pollution: The Effectiveness of Zeolites in Decreasing Levels of Nitrate in Runoff
 Danbury, Westside Middle School Academy, Teacher - Jonathon Neuhausel
 Paloma Lenz, Danbury 8
 Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences 8th Grade Ind, - \$100 & trophy, invite to compete Broadcom MASTERS
 - Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
 - CASE • PepsiCo Urban School Challenge Awards with IBM --- 2nd Place Middle School - \$200 and Trophy, Medallion
 - Environmental Sciences Awards with CACIWC --- 2nd Place MS- \$200, Trophy, CACIWC gifts
 - UTC Aerospace Systems Engineering Awards --- 2nd Place- Engineering MS- \$200 & trophy and Invitation Compete in Broadcom MASTERS
 - Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$500 & trophy and Invitation Compete in Broadcom MASTERS
 - Association for Women Geoscientists --- Certificate, \$25 gift card to Amazon given by CSEF, possible advance to further competition
- 5528 P8 Mini Generator
 Bethany, Amity Reg Middle School - Bethany Campus, Teacher - Kevin Berean
 Harry Wyndorf, Woodbridge 8
 Awards: Honors = 2
- 5529 P8 Rust Never Sleeps
 Falls Village, Lee H. Kellogg School, Teacher - Joseph Markow
 Natalie Wadsworth, Falls Village 8
 Awards: Honors = 2
- 5530 P8 Simple Motor and Electromagnet
 Groton, Sacred Heart School, Teacher - Juan Pacheco
 Samuel Hammond, New London 8
 Awards: Honors = 3
- 5531 P8 D.I.Y. Hovercraft: Lift and Propulsion
 Trumbull, Christian Heritage School, Teacher - Daniel Cote
 Maxwell Barbagallo, Sandy Hook 8
 Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
 - UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
 - John S. Kendall Memorial Awards --- \$300 John S. Kendall Award for Excellence In Mechanical Engineering - Middle School
- 5533 P8 Optical Illusions Infinity Mirror
 Stamford, The Catholic Academy of Stamford, Teacher - Mr. Hyland
 Morgan Vossler, Stamford 8
 Awards: Honors = 3
- 5534 P8 The Rolling Cane
 Bethany, Amity Reg Middle School - Bethany Campus, Teacher - Kevin Berean
 Michael Coyne, Woodbridge 8
 Awards: Honors = 3
- Barnes Aerospace Applied Technology Awards --- 3rd Place Middle School - \$100 and Trophy, Medallion
 - UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
 - American Society of Safety Engineers, CT Valley Chapter --- \$100 grade 7-8 project

AWARDS

- 5535 P8 Using Robotics for Investigating Underwater Habitats
Bozrah, Fields Memorial School, Teacher - Mrs. E. Brown
Morgan Tainter, Gilman 8
Awards: Honors = 2
- People's United Bank Mathematics Awards - with ATOMIC --- Middle School Finalist - Medallion
 - Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
 - Computer Science Awards --- Middle School Finalist - Medallion
 - UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
 - Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash
 - Barker Mohandas Awards for Transportation Research --- \$100 Cash & Plaque for Excellence in Transportation Related Research- Middle School
 - Leask/Francoeur Family Awards --- 1st Place Middle School- For innovation electrical engineering or computer science - \$200 cash
 - Dreams Unlimited Award --- \$100 Cash Award + Certificate
- 5536 P8 How Do Airplanes Fly? Bernoulli's Principle
Stamford, The Catholic Academy of Stamford, Teacher - Mr. Hyland
Sierra Wood, Stamford 8
Awards: Honors = 3
- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- 5537 P8 The search for a fuel-efficient jetliner: Testing three airfoils in a wind tunnel.
West Hartford, King Philip Middle School, Teacher - Robert Felekey
Andrew Sauer, West Hartford 8
Awards: Honors = 3
- U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate
- 5538 P8 MediTrack
Avon, Talcott Mountain Academy, Teacher - Mr Lombardo
Ari Starr, Avon 8
Awards: Honors = 3
- 5539 P8 Hovercraft
New Haven, Betsy Ross Arts Magnet School, Teacher - Mrs Macdonald
Kaylee Fitzgerald, Naugatuck 8
Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
 - U.S. Air Force --- Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate
- 5540 P8 Are you a 'fan' of wind turbines?
Stratford, St. Mark School, Teacher - Mrs.Olins
Kaitlyn Szczepanski, Stratford 8
Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences 8th Grade Ind. - trophy and Invitation Compete in Broadcom MASTERS
 - Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- 5541 P8 Water Temperature and Hurricane Prevention
Bozrah, Fields Memorial School, Teacher - Mrs. E. Brown
Elijah Ramthun, Bozrah 8
Awards: Honors = 3
- 5542 P8 Acoustic Anomaly Detector
Avon, Talcott Mountain Academy, Teacher - John Lombardo
Brendan Glastris, Burlington 8
Awards: Honors = 3
- Barnes Aerospace Applied Technology Awards --- 2nd Place Middle School - \$200 and Trophy, Medallion
 - Computer Science Awards --- Middle School Finalist - Medallion
 - Connecticut Academy of Audiology --- \$150 Award MS- For Excellence in Audiology and Acoustics, opport. to shadow an audiologist

- 5546 P8 The Portable Linux Terminal
Bethany, Amity Reg Middle School - Bethany Campus, Teacher - Kevin Berean
Sandra Correira, Bethany 8
Awards: Honors = 1
• Lockheed Martin Physical Sciences Awards --- 5th Place- Physical Sciences 8th Grade Ind. - trophy
- 5547 P8 Image Recognition to Diagnose Lyme Disease
Danbury, Westside Middle School Academy, Teacher - Jonathan Neuhausel
Khushi Parikh, Danbury 8
Awards: Honors = 1
• Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & trophy, invite to compete Broadcom MASTERS
• People's United Bank Mathematics Awards - with ATOMIC --- 1st Place Middle School- \$150 from ATOMIC, and Trophy, \$300 from People's United Bank
• Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- Middle School \$300 / trophy
• CASE • PepsiCo Urban School Challenge Awards with IBM --- 1st Place Middle School - \$300 and Trophy, Medallion
• Computer Science Awards --- 2nd Place Middle School - \$200, Trophy and Medallion
• United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
• Connecticut Academy of Science and Engineering Middle School Urban School Challenge Award --- Urban School Challenge 1st MS- \$250 Cash Award, Invite to attend CASE's Annual Meeting
• Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
• GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project
• Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics
- 5548 P8 LightOff
Bethany, Amity Reg Middle School - Bethany Campus, Teacher - Kevin Berean
Adam Florkiewicz, Bethany 8
Awards: Honors = 3
- 5549 P8 The Effect of Temperature on Lift Decay in Helium Balloons
Trumbull, Christian Heritage School, Teacher - Daniel Cote
Nathan Nagel, Trumbull 8
Awards: Honors = 3
• Connecticut College-Physics, Astronomy, & Geophysics Dept. --- \$150 and certificate, Junior Physics & teeshirt
- 5550 P8 Manual Tightening Prosthetic Hand
Bethany, Amity Reg Middle School - Bethany Campus, Teacher - Kevin Berean
Sage Paglia, Woodbridge 8
Awards: Honors = 1
• Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- 5551 P8 The Thermodynamics of Chemiluminescence
Groton, Sacred Heart School, Teacher - Dr. Pacheco
Kathleen Power, Mystic 8
Awards: Honors = 3
- 5552 P8 Wat(H)er Spin if Off
Bridgeport, Park City Magnet School, Teacher - Ms. Daria Collins
Thu Do, Bridgeport 8
Awards: Honors = 2
• Energize CT/eesmarts Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion
- 5553 P8 Burning Calories: What's in Your Breakfast?
New Haven, Worthington Hooker Middle School, Teacher - Douglas Jones
Katherine Van Tassel, New Haven 8
Awards: Honors = 2
• Demos R Us Award --- \$150 Cash Award- Clear Execution of Research

AWARDS

- 5554 P8 A Superior Vitamin That Is Anti-Inflammatory And Antibacterial “Vitagummies”
Greenwich, Greenwich Catholic School, Teacher - Mrs. Carol Ann Lutz
Monica Marino, Riverside 8
Awards: Honors = 3
• Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner
- 5555 P8 Maglev Magnetics
Stamford, The Catholic Academy of Stamford, Teacher - Mr. Hyland
Andrew Buchkowski, Stamford 8
Awards: Honors = 3
- 5556 P8 3D Printed Dog Prosthetic
Bethany, Amity Reg Middle School - Bethany Campus, Teacher - Kevin Berean
Karli Scianna, Woodbridge 8
Awards: Honors = 1
• Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
• Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- 5557 P8 The Novel Method Of Oil Spill clean up using biomasses
Bridgeport, Park City Prep Charter School, Teacher - Vasiliki Boudreau
Alyssa Hall, Bridgeport 8
Awards: Honors = 3
• CASE • PepsiCo Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion
• Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF
- 5558 P8 Mirror-cle Solar Panels
Wilton, Middlebrook School, Teacher - Jessica Garcia
Jessica Wu, Wilton 8
Awards: Honors = 2
- 5559 P8 Can You Blame the Burnt Cookies on the Pan?
Baltic, Sayles School, Teacher - Chelsea Roy
Emily Topalis, Baltic 8
Awards: Honors = 3
- 5560 P8 Does temperature effect Helium loss from a balloon?
Groton, Sacred Heart School, Teacher - Dr. Juan Pacheco
Julia Ferris, Ledyard 8
Awards: Honors = 2
- 5561 P8 Stealthy Shapes
Stratford, St. Mark School, Teacher - Lynn Olins
Michael LaMonica IV, Stratford 8
Awards: Honors = 2
- 6001 PS Diagnosing Knee Osteoarthritis using Artificial Neural Networks
Greenwich, Brunswick School, Teacher - Dana Montanez
Matthew Pillari, Greenwich 11
Awards: Honors = 1
• Lockheed Martin Physical Sciences Awards --- 5th Place- Physical Sciences Senior High Individual - Plaque
- 6002 PS Unforeseen Impacts of Cosmic Radiation on the Species of Earth
Suffield, Suffield High School, Teacher - Mitchell Charkiewicz
SreeKeerthi ManurSreekantaMurthyGari, Suffield 9
Awards: Honors = 3
- 6003 PS The Effect of Dark Energy on Photons
Sandy Hook, Newtown High School, Teacher - Tim DeJulio
Brendan O’Hara, Newtown 12
Awards: Honors = 3

- 6004 PS Investigation of Recycled Concrete Aggregate as a low-cost CO₂ sequestration vehicle through Indirect Mineral Carbonation
 Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk Shadle
 Jinkuk Hong, Shelton 12
 Awards: Honors = 2
 • Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
 • Future Sustainability Awards - Eversource/energizeCT --- High School Finalist - Medallion
- 6005 PS Effect of Various Ambient Gases on Stability of Perovskite Solar Cells
 Manchester, Manchester High School, Teacher - Megan Rader
 Khundker Hossain, Manchester 12
 Awards: Honors = 2
 • Energize CT/eesmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion
 • University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Energy & Transportation
- 6006 PS Finding the Ideal Baseball Swing Path through Calculus and Physics
 Storrs, E.O. Smith High School, Teacher - Cheryl Granger
 Alexander Chandy, Storrs 11
 Awards: Honors = 3
 • Connecticut College-Physics, Astronomy, & Geophysics Dept. --- \$150 and certificate, Senior Physics & teeshirt
- 6007 PS Adsorption of Antimony Using Mesoporous Alumina: A Comparison to Arsenic
 Glastonbury, Glastonbury High School, Teacher - Diane Pintavalle
 Dina Allam, Glastonbury 11
 Awards: Honors = 2
- 6008 PS Effective Catalytic Conversion of Plastic Waste into Fuel
 Danbury, Immaculate High School, Teacher - Mrs. Bridget Henry
 Elias Haddad, Danbury 9
 Awards: Honors = 2
 • Energize CT/eesmarts Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Plaque
 • Future Sustainability Awards - Eversource/energizeCT --- High School Finalist - Medallion
 • MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, high school, \$100 cash award
 • GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Alternative/Renewable Energy Project
- 6009 PS Modeling Permafrost Degradation to Estimate the Irreversibility of Runaway Climate Change
 Ridgefield, Ridgefield High School, Teacher - Ryan Gleason
 Alexander Price, Ridgefield 12
 Awards: Honors = 3
- 6010 PS Janus Bottlebrush Copolymers: A Universal Strategy Enabling Access to Ultra-Small Phase Separation
 Woodbridge, Amity Regional High School, Teacher - Deborah Day
 Vince Li, Orange 12
 Awards: Honors = 2
- 6011 PS Reusable Paper with Light-based Writing
 Rocky Hill, Rocky Hill High School, Teacher - Mr. DeBacco
 Zirui Hao, Rocky Hill 12
 Awards: Honors = 3
- 6012 PS Correlations Between Insulator Composition and Potential to Retain Temperature
 New London, Science and Technology Magnet High School, Teacher - Charles Mulligan
 Jaylen Callender, Montville 9
 Awards: Honors = 3
- 6013 PS Fire Hydrant Alert System
 Shelton, Shelton High School, Teacher - Jerry Kelley
 Kyle Young, Shelton 10
 Awards: Honors = 3

AWARDS

- 6014 PS Fast Point-based Raytracing with Sphere Bounding Volume Hierarchies
Darien, Darien High School, Teacher - David Lewis
Daniel Pfrommer, Darien 12
Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
 - Computer Science Awards --- 1st Place High School - \$400, Plaque, Medallion
 - United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
 - Intel Excellence in Computer Science Award --- \$200 & certificate
- 6015 PS Combining digital interfaces with smart robots to easily make images in fields
Greens Farms, Greens Farms Academy, Teacher - Joachim Kuhn
William King, Old Greenwich 12
Awards: Honors = 3
- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion
- 6016 PS Harvesting Wind From Urban Street Canyons Using a Double Helix Wind Turbine
Danbury, Danbury High School, Teacher - Mr. LaRosa
Jeffrey Osborne, Danbury 10
Awards: Honors = 2
- 6017 PS Deep neural network based subspace learning of robotic manipulator workspace mapping
Kent, Kent School, Teacher - Jesse Klingebiel
Peiyuan Liao, Kent 10
Awards: Honors = 2
- Computer Science Awards --- Senior High Finalist - Medallion
 - UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- 6018 PS The Consonance of Alternative Tuning Systems
Windsor, The Loomis Chaffee School, Teacher - Koby Osei-Mensah
Aresh Pourkavoos, Avon 9
Awards: Honors = 3
- People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion
 - Computer Science Awards --- 2nd Place High School - \$300, Plaque, Medallion
 - Intel Excellence in Computer Science Award --- \$200 & certificate
 - U.S. Metric Association --- Certificate & \$25 Amazon gift card given by CSEF
 - Leask/Francoeur Family Awards --- 1st Place High School- For innovation electrical engineering or computer science - \$200 cash
- 6019 PS Location Technology for the Blind
Greens Farms, Greens Farms Academy, Teacher - Nina Yuen
Kendall Roche, Darien 12
Awards: Honors = 3
- 6020 PS The Design of a Self-Funding Heating System
Trumbull, Christian Heritage School, Teacher - Daniel Cote
Miles Meade, Shelton 11
Awards: Honors = 3
- Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion
 - Westinghouse Electric Company/New England Chapter of North American Young Generation in Nuclear --- 1st place, Excellence in Energy Research, \$100 cash award
- 6021 PS Synthesizing a Flexible, Conductive, and Biodegradable Polymer Matrix, Composed of Graphene and Chitin.
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk Shadle
William Mergenthaler, Southport 12
Awards: Honors = 2
- 6022 PS Engineering An Enzyme Responsive Genetic Delivery Vehicle
Glastonbury, Glastonbury High School, Teacher - Diane Pintavalle
Tushar Sondhi, South Glastonbury 12
Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion

- 6023 PS Development of a Portable, Kinetic Driven, Ozone Based Water Purification System for Application in Disaster Relief
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk Shadle
Jamielyn Iquina, Stratford 12
Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
 - UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 - Society of Women Engineers - Hartford Section --- Scientific Calculator
- 6025 PS Electronic Stethoscope System for Monitoring and Analyzing Bowel Sounds
Glastonbury, Glastonbury High School, Teacher - Diane Pintavalle
Abhi Mohnani, Glastonbury 11
Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
 - Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion
 - Computer Science Awards --- Senior High Finalist - Medallion
 - UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 - Lunch with a Patent Attorney --- Lunch with a Patent Attorney
 - University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Engineering: Electrical
- 6026 PS Extinguishing fire with sound
Bridgeport, Fairchild Wheeler Magnet High School, Teacher - Paul Bergquist
Kenny Pineda, Bridgeport 10
Awards: Honors = 3
- American Society of Safety Engineers, CT Valley Chapter --- \$150 grade 9-12 project
 - ISA - International Society for Automation - Ct. Valley Section --- 1st - \$125 award
- 6027 PS A piece of unique-shaped furniture that is able to sustain a lot of weight and send signals to the rescue team about # buried people and their location.
Greens Farms, Greens Farms Academy, Teacher - Nina Yuen
Andrew Chen, Norwalk 12
Awards: Honors = 2
- Ct Architecture Foundation Award - The William M. Mack, AIA Award --- \$250 Gift Certificate to Barnes and Noble from the Connecticut Architecture Foundation, William M. Mack, AIA Award.
- 6029 PS New Abundant and Sodium-Free Metakaolin Solid Electrolyte Ceramic for Power Grid Na-Ion Batteries
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Alexander Kosyakov, Riverside 11
Awards: Honors = 2
- Energize CT/esmarts Alternative/Renewable Energy Awards --- 2nd Place High School - \$300 Cash and Plaque,
 - Future Sustainability Awards - Eversource/energizeCT --- High School Finalist - Medallion
 - 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 --- High School- Certificate, \$75.00 gift certificate given by ONR
 - Yale Science & Engineering Association, Inc. --- Certificate, \$25 gift card to Amazon given by CSEF
- 6030 PS The Analysis of a Biochar Containment Boom as a Mitigation Technique for Relic Pollutants after Marine Dredging
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk Shadle
Ethan Skuches, Milford 12
Awards: Honors = 2
- CASE • PepsiCo Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion
 - Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
 - National Oceanic and Atmospheric Administration --- Certificate and medallion, ,and \$25 Amazon gift card given by CSEFF

AWARDS

- 6033 PS Open-source, In-field Smartphone Detection and Mapping of Waterborne Diseases via Time-Based Spectroscopic Sensing with a New 3D Printable Optical Interface
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Nicholas Liu, Greenwich 11
Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences Senior High Individual - \$200 & Plaque
 - Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
 - UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 - United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
 - ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
 - The Goodwin-Niering Center for the Environment --- \$100 for "Excellence in Environmental Conservation Studies"
 - Robotics And Beyond Award for Excellence in Physics- High School and Engineering Design- Middle School --- High School- For Excellence in Physics- \$200 for for Robotics And Beyond STEM Design Academy in July
 - Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2018 Invention Convention, April 28
- 6034 PS Measuring Stellar Parallax of 61 Cygni
Trumbull, St. Joseph High School, Teacher - Shannon Calvert
James Bove, Trumbull 12
Awards: Honors = 3
- Astronomical Society of Greater Hartford --- Senior Project-\$150, subscription to Sky and Telescope magazine and ASGH meeting invitation
- 6035 PS Simulated Effects of Hydrophobic Coatings on Closed-Cycle Ocean Thermal Energy Conversion Systems
Greens Farms, Greens Farms Academy, Teacher - Dr. Mathieu Freeman
Kevin Maldonado, Norwalk 12
Awards: Honors = 2
- 6037 PS The Effect of Ski-Boot Tightness on Ankle-Flexion Angle
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Henry Molot, Woodbridge 12
Awards: Honors = 3
- 6038 PS Amount of Chlorine in Water, Compared to the Resulting Chloramine
Bridgeport, Fairchild Wheeler Magnet High School, Teacher - Keli Veillette
Mansi Kabre, Trumbull 9
Awards: Honors = 3
- 6039 PS Natural vs Synthetic Drinks Compared by Electrolyte Concentration
New London, Science and Technology Magnet High School, Teacher - Charles Mulligan
Owen George, Uncasville 10
Awards: Honors = 3
- CASE • PepsiCo Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion
- 6040 PS Relation between different types of water turbine and the level of hydroelectric power produced
Manchester, East Catholic High School, Teacher - Lesa Milas
Madison Lee, Rocky Hill 9
Awards: Honors = 2
- Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- 6042 PS Comparison of 14-Day Survival and Development of *Lymantria dispar asiatica* and *Lymantria dispar dispar* on Out-of-Season Foliages
Redding, CT STEM FAIR - Amity Regional High School, Teacher - Deborah Day
Jody Liu, Orange 10
Awards: Honors = 2
- 6043 PS The Effect Cellulase and Pectinase Have on the Extraction Methods Used to Isolate the Oil Spirulina Major Algae Produces Which Can Be Converted into Biodiesel More Efficiently.
Norwich, Norwich Tech - Green STEP, Teacher - Aleatha Pelloni
Joshua McConnell, Baltic 11
Awards: Honors = 2

- 6044 PS Assessment of Cation Competition on the Effectiveness of Paramagnetic Lanthanides as Shift Agents for Sodium-23 Magnetic Resonance Spectroscopy
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Keri Tenerowicz, Bethany 11
Awards: Honors = 2
- 6045 PS Perovskite v. Silicon Solar Panels: the Effect of Mirrored Light on Overall Efficiency
Greenwich, Brunswick School, Teacher - Dana Montanez
Eric Meindl, Riverside 10
Awards: Honors = 2
- 6046 PS Predicting the Fluctuation of Stocks During the 3-6 Day Period Before and After Quarterly Profit Announcements
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Armstrong Park, Riverside 11
Awards: Honors = 2
- Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics
- 6047 PS The Impacts of pH on Ethene Degradation and Growth of Ethenotrophs
Woodbridge, Amity Regional High School, Teacher - Catherine Piscitelli
Jacob Feuerstein, Woodbridge 11
Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- 6048 PS Quantitative Analysis of the Susceptibility of Bacillus Subtilis, Chemical and Physical Protectants and the Denaturing of the Protectants from Harmful UVB Wavelengths of 320-290nm
Fishers Island, Fishers Island School, Teacher - Carol Giles
Brooklyn Redo, Fishers Island 12
Awards: Honors = 3
- 6049 PS Lowering SLS Costs with Preexisting Solid Rocket Boosters
Bethel, Bethel High School, Teacher - Mr. Turek
Ryan Lemone, Bethel 10
Awards: Honors = 3
- American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate
- 6050 PS Comparing Dissolved Oxygen (% and mg/L) between Mamaroneck bay and Darien harbor
Darien, Darien High School, Teacher - David Lewis
Kellie Arevalo, Darien 12
Awards: Honors = 3
- 6051 PS Magnetically-induced, Visual Detection of Trace Arsenic Contaminants in Water Using Fe₃O₄ Photonic Crystal Structures
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Raina Jain, Greenwich 10
Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & Plaque, trip to compete at Intel ISEF
 - Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
 - Environmental Sciences Awards with CACIWC --- 1st Place HS- \$500, Plaque, CACIWC gifts
 - UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 - United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
 - GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Environmental Project
- 6053 PS The Creation and Storage of Kinetic Energy through the Transportation of Water through a Hippo Roller
Greens Farms, Greens Farms Academy, Teacher - Nina Yuen
Conner Calzone, Norwalk 12
Awards: Honors = 3
- Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2018 Invention Convention, April 28

AWARDS

- 6054 PS Carbon Emission-Free Power Generation Using Wave Energy and a Robust Generator
Trumbull, Christian Heritage School, Teacher - Daniel Cote
Ranita Muriel, Shelton 11
Awards: Honors = 3
- Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
 - University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Sustainability
 - Connecticut Invention Convention “Next Step Inventors” --- Next Step Inventor Trophy & Invitation to compete at the 2018 Invention Convention, April 28
- 6055 PS Inhibiting the Formation of Methane Hydrates using Zeolite Minerals and Hydrophilic Polymers in Natural Gas Pipelines.
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk Shadle
Danny Jagoe, Fairfield 12
Awards: Honors = 2
- 6056 PS Stopping an allergic reaction before it starts: A small mass spectrometer to detect peanuts within foods for those with a peanut allergy.
Suffield, Suffield High School, Teacher - Mitchell Charkiewicz
Zachariah Service, Suffield 12
Awards: Honors = 3
- 6057 PS The Effectiveness of Ceramic Membranes with a Manganese Oxide Coating in Filtering Dyes from Industrial Wastewater
Woodbridge, Amity Regional High School, Teacher - Mrs. Day
Ella Marin, Woodbridge 10
Awards: Honors = 2
- UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 - University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Engineering: Mechanical
 - University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Environmental Science
- 6058 PS Remediation of Heavy Metal and Fertilizer-Runoff Contaminants using High Throughput, Silk Nanofiber Biomimetic Multilayer Membranes
Greenwich, Greenwich High School, Teacher - Mr. Bramante
Nicholas Woo, Greenwich 11
Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
 - Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
 - UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 - Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
 - ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
 - Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
 - Stockholm Junior Water Prize --- Certificate, \$25 gift card to Amazon by CSEF, possible advance to further competition
 - Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt, First Place Senior
- 6059 PS Enhancing Latent Prints Visualized through Iodine Fuming with Magnetic Powders
Shelton, Shelton High School, Teacher - Mrs Mary Clark
Sarah Gloria, Shelton 11
Awards: Honors = 2
- 6060 PS A Novel Health Monitoring System
Suffield, Suffield High School, Teacher - Mitchell Charkiewicz
Akshita Jindal, Suffield 9
Awards: Honors = 3
- Connecticut Invention Convention “Next Step Inventors” --- Next Step Inventor Trophy & Invitation to compete at the 2018 Invention Convention, April 28

- 6061 PS Synthesis and Separation Of a Chiral Compound In Preparation Of a Positron Emission Tomography (PET) Radiotracer
New Haven, Wilbur Cross High School, Teacher - Dr. Bernard Hulin
Maya Geradi, New Haven 12
Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- 1st Place - Physical Sciences Senior High Individual - \$500 & Plaque, trip to compete at Intel ISEF
 - Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
 - CASE • PepsiCo Urban School Challenge Awards with IBM --- 2nd Place High School - \$400 and Plaque, Medallion
 - H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering in partnership with CCAT --- Physical Sciences 1st HS \$1,000, Solid Silver Medal of Excellence, Invite to CASE Annual Mtg
- 6062 PS Pumping Iron
Shelton, Shelton High School, Teacher - Lucia Dunham
Spencer Hatfield, Shelton 10
Awards: Honors = 3
- American Society for Metals - Hartford Chapter --- \$100 Check
- 6063 PS Effect Of Modifying The Structure Of A Known Conformationally Rigid Cyclic Tungsten Bis-Alkyne Complex On Behavior And Flexibility
Glastonbury, Glastonbury High School, Teacher - Diane Pintavalle
Rebecca Lee, Glastonbury 11
Awards: Honors = 2
- 6064 PS Determining How Concentration and Solution Type Govern Multi-Walled Carbon Nanotube (MWCNTs) Aggregation Behavior
Woodbridge, Amity Regional High School, Teacher - Catherine Piscitelli
Rosie Du, New Haven 11
Awards: Honors = 2
- 6065 PS The Effect of MN250 on the Removal of Sulfonamide Antibiotics in Wastewater
Westport, Staples High School, Teacher - Karen Thompson
Joshua Zhang, Westport 11
Awards: Honors = 2
- 6066 PS Undulated Leading-Edge Airfoils in Low to Medium Reynolds Number Regime
Windsor, Academy of Aerospace and Engineering, Teacher - Dr. Michelle Bellinger
Keshav Vedula, Windsor 12
Awards: Honors = 2
- CASE • PepsiCo Urban School Challenge Awards with IBM --- 4th Place High School - Plaque, Medallion
 - UTC Aerospace Systems Engineering Awards --- 1st Place- Engineering Senior High- Trip to compete at Intel ISEF, \$500 & plaque,
 - Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
 - American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate
 - Connecticut Association of Physics Teachers --- \$100 Senior project
- 6067 PS Noise Removal Analysis Using Proposed LPF(Low Pass Filter) and Windows
Wallingford, Choate Rosemary Hall, Teacher - Richard Kyung
Se Ri Lee, Wallingford 11
Awards: Honors = 3
- People's United Bank Mathematics Awards - with ATOMIC --- 2nd Place High School- \$100 from ATOMIC, Plaque, \$300 from People's United Bank
 - Mu Alpha Theta --- Certificate, \$25 Amazon gift card given by CSEF
 - IEEE, Connecticut Section --- \$250 Honors Award -Senior
- 6068 PS The Utilization of Light Amplification by Stimulated Emission of Radiation in Amalgamating Free-Space Optical Communication and Wireless Power Transmission
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk Shadle
Julia LaPenna, Milford 12
Awards: Honors = 3
- CASE • PepsiCo Urban School Challenge Awards with IBM --- 5th Place High School - Plaque, Medallion

AWARDS

- 6071 PS A Study on the Alternative Space Filling Curve
Windsor, The Loomis Chaffee School, Teacher - Richard Kyung
Jae Hyung Lee, Windsor 10
Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
 - People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion
- 6072 PS Solar Travels
Bridgeport, Central High School, Teacher - Mrs. Dritschler
Omed Hossaini, Bridgeport 9
Awards: Honors = 3
- 6073 PS Creating, Optimizing, and Testing a Mathematical Model of the Chemical Production of Biodiesel.
Canton, Canton High School, Teacher - Stephen Riley
Cole Marcuccio, Canton 12
Awards: Honors = 2
- 6074 PS A Novel Heavy Metal Remediation Technique Utilizing a Photocatalyst Driven Graphene-Cupric Oxide Matrix
Bridgeport, Bridgeport Regional Aquaculture Center, Teacher - Kirk Shadle
Catherine Odendahl, Trumbull 12
Awards: Honors = 2
- Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
 - ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
- 6075 PS The use of Technology to limit out of bounds errors in sports by referees
Greens Farms, Greens Farms Academy, Teacher - Nina Yuen
Sean Minson, Darien 12
Awards: Honors = 2
- 6076 PS Optimizing Hydraulics
Canton, Canton High School, Teacher - Mr. Riley
Aidan O'Donnell, Canton 12
Awards: Honors = 3
- 6077 PS Implication of Fuel Type and Volume on Terminal Velocity of Projectiles
New London, Science and Technology Magnet High School, Teacher - David Brown
Essoha Kadambaya, Norwich 9
Awards: Honors = 3
- 6078 PS The Impact Of Methoxy On The Nucleophilicity Of Re(Pyridine-Oxazoline)(Co) cl And Its Rate Of Co Conversion
Glastonbury, Glastonbury High School, Teacher - Diane Pintavalle
Nicole Nguyen, Glastonbury 12
Awards: Honors = 2
- 6079 PS Ambient Carbon Dioxide Capture and Purified Gas Release Using Asphalt-Waste Derived, Porous Carbon Filtration
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Melissa Woo, Riverside 10
Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
 - Future Sustainability Awards - Eversource/energizeCT --- High School Finalist - Medallion
 - UTC Aerospace Systems Engineering Awards --- 2nd Place- Engineering Senior High- \$400 & plaque
 - Society of Women Engineers - Hartford Section --- Scientific Calculator
 - Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, air pollution related
- 6080 PS Are Your Running Shoes Slowing You Down?
Canton, Canton High School, Teacher - Stephen Riley
Jane Frawley, Canton 12
Awards: Honors = 2

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- 6081 PS The Effect of EsMCsu1, from Eutrema Salsugineum, on Transformed Arabidopsis Related to Drought Resistance
Westport, Staples High School, Teacher - Karen Thompson
Juliana Hopper, Westport 12
Awards: Honors = 2
- 6082 PS Solar Geoengineering: The Capacity of Aerosols to Reflect Light and Reduce Temperature
Greenwich, Brunswick School, Teacher - Dana Montanez
Ryan Glanville, Greenwich 10
Awards: Honors = 2
• UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- 6083 PS Options Pricing Models Using Machine Learning
Fairfield, Fairfield Ludlowe High School, Teacher - Mr. Mirror
Srihita Mediboina, Fairfield 12
Awards: Honors = 2
• People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion
• University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Mathematics
- 6084 PS Ammonia on Other Earths: Sensitive Chemical Tests for Future Probes
Hamden, Sacred Heart Academy, Teacher - Dr. Elizabeth Christophy
Maria Papademetris, New Haven 10
Awards: Honors = 2
- 6085 PS Field Testing for Practical Application of OER Catalyst Nickel-Iron Oxide in Extraterrestrial and Underwater Areas
Trumbull, Christian Heritage School, Teacher - Daniel Cote
Daniel Colgate, Bridgeport 11
Awards: Honors = 2
- 6087 PS The Effectiveness of Different Media of Air Gap Hacking Over Distance
Trumbull, Christian Heritage School, Teacher - Daniel Cote
William Rojas, Easton 11
Awards: Honors = 2
- 6088 PS Crystal Woods
Danbury, Danbury High School, Teacher - Binu Jacob
Aleena Jacob, Danbury 9
Awards: Honors = 3
- 6089 PS The Anti-Overdose Pill Bottle Stemming the Opioid Epidemic
Suffield, Suffield High School, Teacher - Mitchell Charkiewicz
Ziad Hassan, Suffield 11
Awards: Honors = 3
• Barnes Aerospace Applied Technology Awards --- 2nd Place High School - \$300 and Plaque Medallion
• Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre
• Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2018 Invention Convention, April 28
- 6090 PS Simple Gold Nanoparticle-based Colorimetric Detection of Escherichia coli in a Tap Water Matrix via Microfluidic Chip Assay
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Amit Ramachandran, Stamford 12
Awards: Honors = 1
• Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences Senior High Individual - Plaque
- 6091 PS Prototype Cotton Based Poly(N-isopropylacrylamide) Smart Hydrogel that Undergoes Hydrophilic-to-Hydrophobic Transition to Capture and Release Fresh Water from Humid Air
Manchester, East Catholic High School, Teacher - Lesa Milas
John Oei, Hebron 9
Awards: Honors = 1
• Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
• Future Sustainability Awards - Eversource /energizeCT --- 3rd Place High School - \$200 Cash and Plaque
• University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Chemistry
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AWARDS

- 6092 PS Salty Fuel Energy
Bridgeport, Central High School, Teacher - Leeford Dufe
Carlos Guzman, Bridgeport 9
Awards: Honors = 2
• Energize CT/eesmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion
- 6093 PS Determining Best 3D Printing Materials to Create Model Human Vertebrae
Redding, CT STEM FAIR - Amity Regional High School, Teacher - Catherine Piscitelli
McAllister Dixon, Woodbridge 9
Awards: Honors = 3
- 6095 PS Enhancing Cybersecurity by Developing a User Authentication System Using Keystroke Dynamics
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Kate Yuan, Woodbridge 11
Awards: Honors = 2
• U.S. Metric Association --- Certificate & \$25 Amazon gift card given by CSEF
- 6096 PS Snow: The Atmospheric Scrubbing Brush
Shelton, Shelton High School, Teacher - Charles Fowler
Cora Welsh, Shelton 10
Awards: Honors = 3
- 6097 PS Comparing the Strengths of Industrial and Medical Cyanoacrylates
Hamden, Sacred Heart Academy, Teacher - Sibani Sengupta
Adalyn Schommer, Cheshire 10
Awards: Honors = 3
- 6098 PS Cost-Effective and Fully Recycled Filtration of Heavy Metals from Drinking Water Using Used Coffee Grounds Embedded in Discarded Polyurethane Sponges
Greenwich, Greenwich High School, Teacher - Andrew Bramante
Verna Yin, Cos Cob 11
Awards: Honors = 1
• Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
• Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- High School \$500 / plaque
• Environmental Sciences Awards with CACIWC --- 3rd Place HS- \$100, Plaque, CACIWC gifts
• Future Sustainability Awards - Eversource/energizeCT --- High School Finalist - Medallion
• United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
• Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash
• ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
• Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate given by ONR
• Stockholm Junior Water Prize --- Certificate, \$25 gift card to Amazon by CSEF, possible advance to further competition
• Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to dinner
• Society of Women Engineers - Hartford Section --- Scientific Calculator
• Southeastern New England Marine Educators --- \$100 award and membership in SENEME - 1st Place Senior & T-Shirt
• University of Connecticut Academic Excellence Scholarship --- Academic Excellence Scholarship - \$6,500 a year for four academic years- (\$26,000 total)
- 6099 PS Sinkhole detection using Wireless Sensor Networks and Structural Health Monitoring
Woodbridge, Amity Regional High School, Teacher - Deborah Day
Sophia Wang, Woodbridge 10
Awards: Honors = 2
• American Society of Safety Engineers, CT Valley Chapter --- \$150 grade 9-12 project
• ISA - International Society for Automation - Ct. Valley Section --- 3rd - \$50 award
- 6100 PS Impact of Submerged Barrier Resistance on Internal Waves
Trumbull, Trumbull High School, Teacher - Steffanie Elkins
Arnav Srivastava, Trumbull 11
Awards: Honors = 3

- 6101 PS A natural cooling system for the last mile of vaccine delivery
 Ellington, Ellington High School, Teacher - Liz Cole
 Tina Ma, Ellington 11
 Awards: Honors = 2
- Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
 - University of Hartford --- University of Hartford Scholarship- For Excellence in Engineering, Science or Mathematics \$26,000
 - The Connecticut Technology Council Young Woman Innovation Award --- \$150 Cash Award for Technological Innovation
 - Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a High School student, \$200 cash
 - John S. Kendall Memorial Awards --- \$500 John S. Kendall Award for Excellence In Mechanical Engineering - High School
- 6102 PS The effect of different biochars on phosphate retention
 Woodbridge, Amity Regional High School, Teacher - Deborah Day
 Talia Barry, Orange 11
 Awards: Honors = 3
- 6104 PS Exploring the Variability of Light in the Nucleus of Galaxy NGC 4395
 Glastonbury, Glastonbury High School, Teacher - Diane Pintavalle
 Devin Wasilefsky, South Glastonbury 11
 Awards: Honors = 2
- 6501 PST Effect of Experimental Parameters on Forming Prince Rupert's Drops for Maximum Strength and Toughness.
 Windsor, Academy of Aerospace and Engineering, Teacher - Dr. Bellinger
 Srikar Godilla, Newington 11 Cristian Rodriguez East Hartford 11
 Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Team- \$300(split) & Plaque
 - CASE • PepsiCo Urban School Challenge Awards with IBM --- 1st Place High School - \$500 and Plaque, Medallion and trip to compete at Intel Int. Sci. & Eng. Fair
 - UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 - H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering in partnership with CCAT --- Urban School Challenge 1st HS- \$1,000 (split for teams), Invite to CASE Annual Mtg
 - H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering in partnership with CCAT --- \$500 to 1st HS Urban School Challenge Science Department for Equipment/Supplies
 - University of Connecticut - Physics Department --- UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificat
 - Arthur Mensing Award --- \$1000 cash award for excellence in the physical sciences
 - American Society for Metals - Hartford Chapter --- \$100 Check
- 6502 PST Play Dough Solidification
 Hartford, Bulkeley High School, Teacher - Genesis Quiles-Galarza
 Xavier Grant, Hartford 11 Natonia Hunte Hartford 11
 Awards: Honors = 3
- 6503 PST Utilization of Vertical Tidal Range to Generate and Store Electrical Current
 Greenwich, Brunswick School, Teacher - Dana Montanez
 William George, Greenwich 11 Harold Barringer Greenwich 11
 Awards: Honors = 2
- Barnes Aerospace Applied Technology Awards --- 1st Place High School - \$500 and Plaque, Medallion
 - Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
 - IEEE, Connecticut Section --- \$100 Honorable Mention
- 6504 PST Green Grocer. An app to reduce food waste and encourage healthy eating.
 Milford, Platt Tech - Green Step, Teacher - Jessica Stamp
 Veronica Novack, Seymour 11 Samantha Laste Stratford 11 Taylor Jensen Ansonia 11
 Awards: Honors = 3
- Meyerand Young Woman Scientist Awards --- \$300 cash - High School, Physical Sciences

AWARDS

- 6505 PST Mag Mover
New Britain, Goodwin Tech - Green STEP, Teacher - Mr. Donaghy
Nicholas Fusco, Bristol 10 Jace Lemrise Plainville 10
Awards: Honors = 3
- Barker Mohandas Awards for Transportation Research --- \$200 Cash & Plaque for Excellence in Transportation Related Research- High School
 - Bob Harris Fix It Award --- \$150 and Certificate for ingenuity in using material and tools
- 6506 PST Research and construction of a Tesla Coil.
Norwich, Norwich Technical High School, Teacher - Chris Porto
Michael Reid, Lebanon 12 Matthew Cloutier Hanover 12
Awards: Honors = 3
- IEEE, Connecticut Section --- \$100 Honorable Mention
 - Wisner Award --- \$250 cash and plaque
- 6507 PST Inductive Power Line
Bridgeport, Fairchild Wheeler Magnet High School, Teacher - Keli Veillette
David Williams, Bridgeport 12 Cynthia Demora Bridgeport 12
Awards: Honors = 3
- 6508 PST Key Finding Application
Hartford, Bulkeley High School, Teacher - Ms. Quiles
Alondra Rodriguez, Hartford 11 Tajon Nickson Hartford 11
Awards: Honors = 3
- 6510 PST Robotic Hand
Norwich, Norwich Technical High School, Teacher - Ernest Todd
Aaron Steendam, Canterbury 11 Justin Relaz Norwich 11
Awards: Honors = 2
- Zepke Award --- \$125 - For the Best Use of Electronic Circuitry- Senior High
- 6514 PST Bartholomew's Vest
Bridgeport, Fairchild Wheeler Magnet High School, Teacher - Mr. Koekkoek
Luca Pietrangeli, Trumbull 12 Angus Foden Trumbull 12
Awards: Honors = 2
- 6515 PST Domestic Water Reuse System
Milford, Platt Tech - Green Step, Teacher - Jessica Stamp
Christian Haupt, West Haven 11 Taylor Krieder Stratford 11 Christian Ramos Stratford 11
Awards: Honors = 2
- Future Sustainability Awards - Eversource /energizeCT --- 1st Place High School - \$500 Cash, Plaque
 - GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Future Sustainability
- 6516 PST The Effects of Positioning of Micro Vertical Axis Wind Turbines in a Network on Efficiency and Power Output
Windsor, Academy of Aerospace and Engineering, Teacher - Dr. Bellinger
Chris Rinaldi, Enfield 11 Jean Pasato Middletown 11
Vishakh Talanki South Windsor 11
Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences Senior High Team- \$500 (split) & Plaque
 - Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion
 - Future Sustainability Awards - Eversource /energizeCT --- 2nd Place High School - \$300 Cash and Plaque
 - UTC Aerospace Systems Engineering Awards --- 3rd Place- Engineering Senior High- \$200 & plaque
 - Ct Architecture Foundation Award - The William M. Mack, AIA Award --- \$250 Gift Certificate to Barnes and Noble from the Connecticut Architecture Foundation, William M. Mack, AIA Award.
- 6517 PST Effect of Adding Reclaimed Polylactic Acid (PLA) to Virgin PLA on the Mechanical Properties
Windsor, Greater Hartford Academy of Math and Science, Teacher - Michelle Bellinger
Michael Stefano, Wethersfield 12 Jacob Manente Southington 12
Awards: Honors = 2
- UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion

- 6518 PST Using Wasted Heat from Hot Showers to Recycle Energy
Windsor, Madina Academy, Teacher - Zaide Ibic
Ahmad Mohammed, Windsor 9 Muaz Sharaf Windsor Lock 9 Samir Khan Wethersfield 9
Awards: Honors = 2
- Energize CT/eesmarts Alternative/Renewable Energy Awards --- High School Finalist - Medallion
 - Constellation, an Exelon Company --- 2nd: \$100.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy
- 6522 PST Temperature-Viscosity Relationship in Predicting Seasonal Motor Function
New London, Science and Technology Magnet High School, Teacher - David Brown
Zachary Bachofner, North Stonington 9 Zachary Stock North Stonington 9
Awards: Honors = 3
- UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- 6523 PST Harnessing ocean wave kinetic energy in an eco-friendly way to generate electricity applying Faraday's law of induction
Windsor, Madina Academy, Teacher - Zaide Madina
Al-Yaman Zoghol, Enfield 9 Ahmed Zeinalabdin Windsor 9
Awards: Honors = 2
- UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 - ISA - International Society for Automation - Ct. Valley Section --- 2nd - \$75 award
- 6524 PST The Effects of Breaking Down Universal Gold 1%/3% Foam Replacing ingredients with Renewable Resources
Norwich, Norwich Technical High School, Teacher - Aleatha Pelloni
John Coleman, Norwich 11 Aaron Toof Voluntown 11
Awards: Honors = 3
- 6525 PST Positive Holes as Early Indicators for Future Earthquakes
Darien, Darien High School, Teacher - Dr. Friedemann Freund
Emily Findlan, Darien 12 Cheyenne Li Darien 12
Awards: Honors = 3
- 6526 PST How Do Various Liquids Affect The Rusting Process On A Metal Object?
Hartford, Bulkeley High School, Teacher - Ms. Quilles
Aisha Minteh, Hartford 11 Samanta Dumornay Hartford 11 Mekyiah Thompson Hartford 11
Awards: Honors = 3
- 6527 PST Alkalosis and Acidosis: How Dieting Affects Abnormal pH Levels in the Human Body
Bridgeport, Fairchild Wheeler Magnet High School, Teacher - Mrs. Veillette
Citlalli Tomas, Bridgeport 11 Musau Kalala Bridgeport 11
Awards: Honors = 2
- 6528 PST Effect of the Size, Shape and Spatial Distribution of the Second Phase Polymer in a 3D Printed Polymer/Polymer Composite on the Mechanical Properties of the Material.
Windsor, Academy of Aerospace and Engineering, Teacher - Michelle Bellinger
Gianna Guzzo, Suffield 10 Andrea Lacunza Avon 10
Awards: Honors = 2
- Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre
- 6529 PST Harvesting Kinetic Energy from Waves using "See-Saw Floating Arms"
Greenwich, Brunswick School, Teacher - Dana Montanez
David Swigart, Greenwich 10 Philip Chadwell Greenwich 10
Awards: Honors = 2
- Constellation, an Exelon Company --- 1st: \$150.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy
- 6530 PST Effect of Increasing the Poly(ethylene) Oxide in Bombyx mori Silk Fibroin on Mechanical Properties of the Polymer Blend Systems
Windsor, Greater Hartford Academy of Math and Science, Teacher - Michelle Bellinger
Alexa Wilson, Rocky Hill 12 Preksha Gupta Rocky Hill 12 Sana Kasmani Rocky Hill 12
Awards: Honors = 1
- Lockheed Martin Physical Sciences Awards --- 3rd Place - Physical Sciences Senior High Team - Plaque
 - CASE • PepsiCo Urban School Challenge Awards with IBM --- 3rd Place High School - \$ 300 and Plaque, Medallion
 - UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion

AWARDS

- 6531 PST Traffic Data Analysis of Car Crashes in New Haven
Redding, CT STEM FAIR - Amity Regional High School, Teacher - Catherine Piscitelli
Austin Gilbride, Woodbridge 11 Joseph Benedetti Bethany 11
Awards: Honors = 3
- 6532 PST Examination of the Magnetic Levitation Wind Turbine and its Conventional Counterpart
Greenwich, Brunswick School, Teacher - Dana Montanez
Peter Lehrman, Greenwich 10 Alexander Morgan Greenwich 10
Awards: Honors = 2
- Barnes Aerospace Applied Technology Awards --- 3rd Place High School - \$ 200 and Plaque, Medallion
 - Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- 6533 PST Combinations of Polyethylene Glycol and Silica Nanoparticles as a Dilatant on Shock Absorption and Unequal Shear Transfer Rate
Windsor, Academy of Aerospace and Engineering, Teacher - dr. Bellinger
Nicolas McMahon, Windsor 10 Emily Ngo South Windsor 10
Awards: Honors = 2
- UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 - Garg Consulting Services Award for Excellence in Transportation Engineering --- \$250 cash and plaque
- 6534 PST How Substance pH Affects Gummy Bear Mass
Hartford, Bulkeley High School, Teacher - Genesis Quiles-Galarza
Raymonde Smith, Hartford 12 Lena Lac Hartford 12 Shannel Senior Hartford 12
Awards: Honors = 3
-

Top Winners Advancing To International Competitions
Intel ISEFCSEF Life Sciences

- 3042 LS Controlled-Release Delivery of Ovarian Anticancer Paclitaxel via Vortex Ring, Donut-shaped Hydrogels
Emily Philippides Greenwich, Greenwich High School, Teacher - Andrew Bramante
- 3087 LS Non-Invasive, Low Cost Diagnosis of Chronic Obstructive Pulmonary Disease (COPD) via Smartphone Breath Analysis
Hiba Hussain Greenwich, Greenwich High School, Teacher - Mr. Bramante

CSEF Physical Sciences

- 6061 PS Synthesis and Separation Of a Chiral Compound In Preparation Of a Positron Emission Tomography (PET) Radiotracer
Maya Geradi New Haven, Wilbur Cross High School, Teacher - Dr. Bernard Hulin
- 6051 PS Magnetically-induced, Visual Detection of Trace Arsenic Contaminants in Water Using Fe₃O₄ Photonic Crystal Structures
Raina Jain Greenwich, Greenwich High School, Teacher - Andrew Bramante

Alexion Biotechnology

- 3057 LS Detection of Early-Stage Alzheimer's Disease via Hierarchical Classification of Proteomic and Clinical Profiles
Shobhita Sundaram Greenwich, Greenwich High School, Teacher - Andrew Bramante

Urban School Challenge

- 6501 PST Effect of Experimental Parameters on Forming Prince Rupert's Drops for Maximum Strength and Toughness.
Srikar Godilla and Cristian Rodriguez (team)
 Windsor, Academy of Aerospace and Engineering, Teacher - Dr. Bellinger

UTAS Engineering

- 6066 PS Undulated Leading-Edge Airfoils in Low to Medium Reynolds Number Regime
Keshav Vedula Windsor, Academy of Aerospace and Engineering, Teacher - Dr. Michelle Bellinger

GENIUS Olympiad

- 3096 LS Development of a Novel Copepod-Based Mosquito Ovitrap
Sophie Wang Waterford, Waterford High School, Teacher - Michael O'Connor
- 5547 P8 Image Recognition to Diagnose Lyme Disease
Khushi Parikh Danbury, Westside Middle School Academy, Teacher - Jonathan Neuhausel
- 6008 PS Effective Catalytic Conversion of Plastic Waste into Fuel
Elias Haddad Danbury, Immaculate High School, Teacher - Mrs. Bridget Henry
- 6051 PS Magnetically-induced, Visual Detection of Trace Arsenic Contaminants in Water Using Fe₃O₄ Photonic Crystal Structures
Raina Jain Greenwich, Greenwich High School, Teacher - Andrew Bramante
- 6515 PST Domestic Water Reuse System
Christian Haupt, Taylor Krieder and Christian Ramos (team)
 Milford, Platt Tech - Green Step, Teacher - Jessica Stamp

AWARDS

Winning Projects of Regular Categories

Award	CSEF – Life Sciences					CSEF – Physical Sciences				
	LT	L7	L8	LS	LST	PT	P7	P8	PS	PST
1	1009	2010	2528	3042	3543	4015	5017	5547	6061	6516
2	1001	2020	2502	3087	3546	4006	5027	5523	6051	6501
3	1005	2031	2537	3095	3515	4018	5024	5527	6033	6530
4		2029	2525	3103			5031	5540	6090	
5		2009	2509	3031			5011	5546	6001	
M	1004	2008	2507	3005		4004	5009	5510	6014	
M	1013	2014	2514	3017		4014	5026	5511	6022	
M	1014	2019	2527	3018		4025	5034	5512	6023	
M				3059		4026	5036	5531	6025	
M				3064				5539	6047	
M				3070				5550	6058	
M				3089				5556	6071	
M				3096					6079	
M				3106					6091	
M									6098	
M										

Winning Projects of Special Categories

Awd	Computer Science		Mathematics		Applied Tech		Engineering		Future Sustainability	
	Middle	High	Middle	High	Middle	High	Middle	High	Middle	High
1	5031	6014	5547	3062	5017	6503	5523	6066	5034	6515
2	5547	6018	5031	6067	5542	6089	5527	6079	2537	6516
3	4015	3062	5027	3049	5534	6532	2516	6516	5011	6091
M	5535	3030	5535	6018	2521	3087	2009	3040	2511	3005
M	5542	3049		6071	4007	6015	2030	3064	2527	3040
M		6017		6083		6020	5008	3070	2538	3049
M		6025				6025	5027	3075	4001	3064
M						6516	5512	3087	4014	3096
M							5531	6017	4019	3106
M							5534	6023	4025	3530
M							5535	6025	4027	6004
M								6033	5027	6008
M								6051		6029
M								6057		6040
M								6058		6054
M								6082		6079
M								6501		6098
M								6517		6532
M								6522		
M								6523		
M								6530		
M								6533		

Winning Projects of Special Categories

Award	Energy		Petit Foundation		Environmental Sci	
	Middle	High	Middle	High	Middle	High
1	5011	6008	5547	6098	2528	6051
2	5034	6029	5027	3057	5527	3096
3	5027	3051	5024	3102	5011	6098
M	4025	3530	2010	3009	2010	3005
M	5507	6005	2506	3029	2031	3016
M	5552	6092	2514	6051	2504	3049
M		6518	2517	6061	2521	3064
M			2538	6101	2537	3512
M			5527		5024	6004
M			5535			6030
M						6033
M						6058
M						6074
M						6503

Award	Biotechnology			Urban Challenge	
	7th	8th	9 - 12th	Middle	High
1	2010	5527	3057	5547	6501
2	5002	2516	3042	5527	6061
3	5034	2505	3035	2010	6530
M	2024	2528	3060	5011	6066
M	2009	2512	3064	2504	6068
M	1005	2504	3036	1015	3059
M	2005	2530	3070	2014	3072
M	2022	2534	3075	2029	3092
M	2028	2537	3095	2536	6030
M	4005	5556	6058	5557	6039
M					
M					
M					
M					

ISEF	
Sponsor	Project
CSEF	3042
CSEF	3087
CSEF	6061
CSEF	6051
Alexion	3057
UTAS	6501
USC	6066

UTC		CSTA	CASE	QU		Genius	
Middle	High	Middle	High	Middle	High	Middle	High
4015	6014	2528	3042		3016	5547	3096
5017	6029	5547	6061		6098		6008
5547	6033		6501				6051
	6051						6515
	6098						

STATS PLUS

Projects

Project Category	JrTm	7th	8th	Sr	SrTm	Total	%
Life Sciences	15	30	35	101	44	225	48%
Physical Sciences	28	38	54	92	27	239	52%
Total	43	68	89	193	71	464	
Percent	9%	15%	19%	42%	15%		

Project Grade	7	8	9	10	11	12	Total
Life Sciences	39	41	14	28	45	58	225
Physical Sciences	51	69	23	39	41	41	239
Total	90	110	30	51	84	99	464
Percent	19%	24%	6%	11%	18%	21%	

Project Gender	7	8	9	10	11	12	Total
Male	46	42	11	24	48	45	216
Female	44	68	19	27	36	54	248
Not Given	0	0	0	0	0	0	0
Total	90	110	30	51	84	99	464

Students

Student Category	JrTm	7th	8th	Sr	SrTm	Total	%
Life Sciences	31	30	35	101	98	295	49
Physical Sciences	63	38	54	92	61	308	51
Total	94	68	89	93	159	603	
Percent	16%	11%	15%	32%	26%		

Student Grade	7	8	9	10	11	12	Total
Life Sciences	49	47	18	41	65	75	295
Physical Sciences	68	87	20	28	55	50	308
Total	117	134	38	69	120	125	603
Percent	19%	22%	6%	11%	20%	21%	

Student Gender	7	8	9	10	11	12	Total
Male	62	52	15	35	68	52	284
Female	55	82	23	34	52	73	319
Not Given	0	0	0	0	0	0	0
Total	117	34	38	69	120	125	603

Summary

Category	Students			Student Gender			Schools		
	Jr	Sr	Total	Male	Fem	Total	Jr	Sr	Total
Life Sciences	96	199	295	104	191	295			
Physical Sciences	155	152	308	180	128	308			
Total	251	352	603	284	319	603	57	55	109
Percent	42%	58%		47%	53%		Not to be totaled		

Category	Projects			Individual Projects			Team Projects		
	Jr	Sr	Total	Jr	Sr	Total	Jr	Sr	Total
Life Sciences	80	145	225	65	101	166	15	44	59
Physical Sciences	120	119	239	92	92	184	28	27	55
Total	200	264	464	157	193	350	43	71	114
Percent	43%	57%		45%	55%		38%	62%	

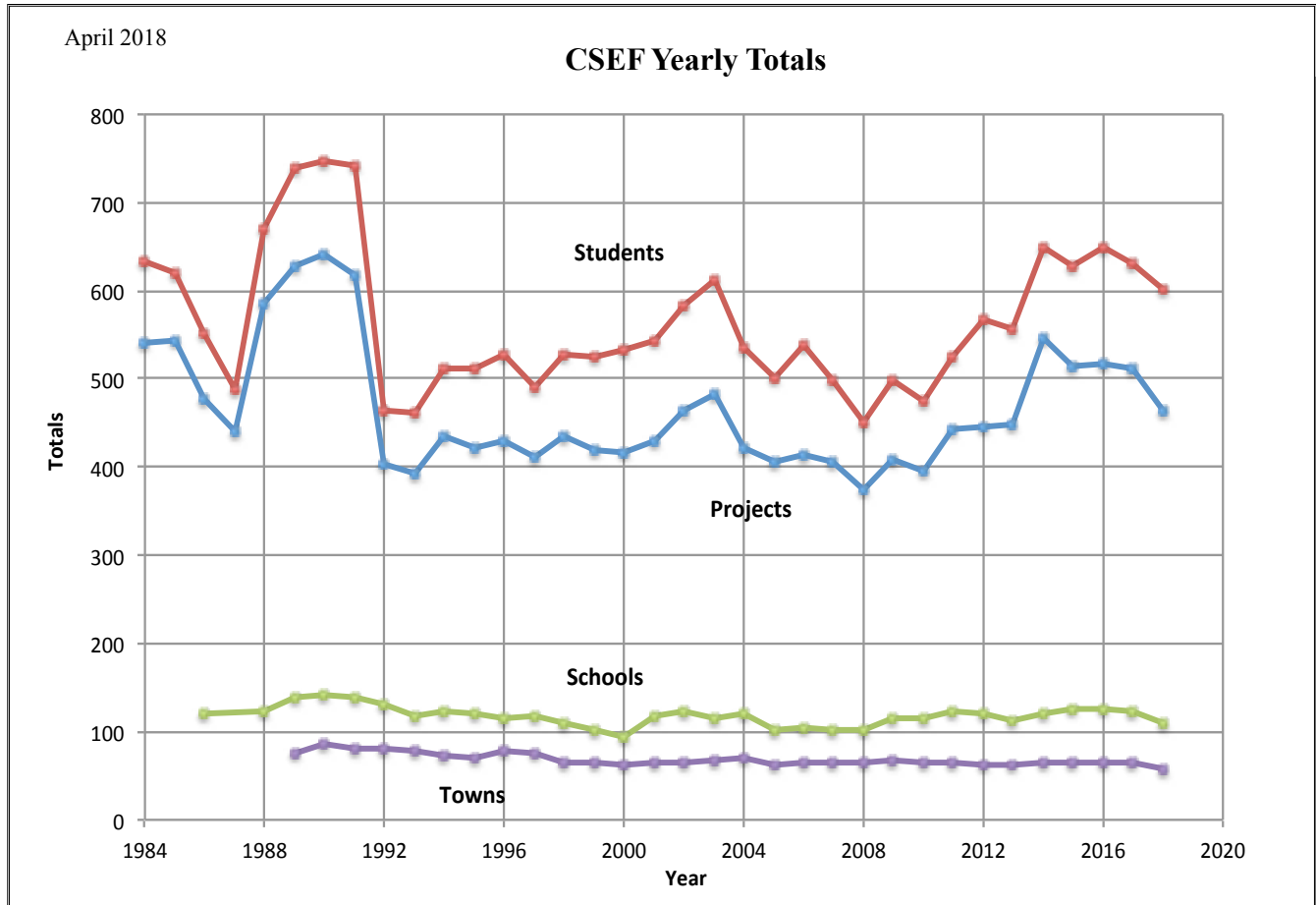
Awards

Regular = Reg + SpCat

Projects -->	Regular Awards			Special Awards			All Awards		
Category	Jr	Sr	Total	Jr	Sr	Total	Jr	Sr	Total
Life Sciences	40	35	75	19	30	49	45	45	90
Physical Sciences	41	47	88	38	47	83	55	64	119
Total	81	82	163	55	77	132	100	109	209
Percent	50%	50%		42%	58%		48%	52%	

Honors

Category	Hon	Projects				Students			
		Jr	Sr	Total	%	Jr	Sr	Total	%
Life Sciences	1	22	17	39		29	21	50	
Physical Sciences		28	18	46		36	23	59	
Sub Total		50	35	85	18%	65	44	109	18%
Life Sciences	2	32	65	97		37	90	127	
Physical Sciences		37	53	90		45	67	112	
Sub Total		69	118	187	40%	82	157	239	40%
Life Sciences	3	26	63	89		30	88	118	
Physical Sciences		55	48	103		74	63	137	
Sub Total		81	111	192	41%	104	151	255	42%
Total				464				603	



Graph Note (see also pages 62-63)

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 at request of teachers.

2014 - Maximum reservations for middle schools was changed to 6 projects and high schools to 15 projects.

2016 - Maximum reservations for middle schools was changed to 10 projects and high schools to 15 projects.

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
2014	Quinnipiac University, Hamden	545	648	121	64
2015	Quinnipiac University, Hamden	514	628	127	66
2016	Quinnipiac University, Hamden	517	648	125	66
2017	Quinnipiac University, Hamden	513	632	116	63
2018	Quinnipiac University, Hamden	464	603	109	58

Project Category Totals by Year

Year	LT	L7	LJ	L8	LS	LST	PT	P7	PJ	P8	PS	PST	Total
1984	58	-	137	-	74	--	36	-	162	-	73	--	540
1985	41	-	155	-	68	--	34	-	175	-	71	--	544
1986	36	-	125	-	60	--	38	-	152	-	67	--	478
1987	26	-	<u>136</u>	-	63	--	20	-	<u>157</u>	-	39	--	441
1988	37	70	89	47	--	47	94	144	59	--	587		587
1989	56	76	93	64	--	57	91	121	69	--	627		627
1990	63	105	89	83	--	41	78	102	81	--	642		642
1991	56	80	87	75	6	56	67	110	74	6	617		617
1992	32	35	60	79	7	23	45	60	62	0	403		403
1993	37	53	58	47	4	23	45	74	49	3	393		393
1994	31	40	70	64	14	25	49	88	51	3	435		435
1995	34	46	57	60	11	37	53	68	50	5	421		421
1996	40	42	64	53	14	37	44	76	54	6	430		430
1997	35	51	49	60	11	32	41	80	49	2	410		410
1998	35	58	61	56	15	30	58	54	58	10	435		435
1999	40	46	39	63	18	39	49	63	58	4	419		419
2000	46	46	44	62	11	43	42	59	50	13	416		416
2001	36	47	56	78	7	54	38	56	45	13	430		430
2002	43	44	63	74	27	36	47	59	58	12	463		463
2003	39	54	57	59	32	42	44	78	64	13	482		482
2004	32	40	44	67	16	42	38	65	58	19	421		421
2005	21	35	48	54	24	35	51	72	56	11	407		407
2006	22	25	46	48	29	33	47	76	63	26	415		415
2007	20	38	28	66	16	38	48	65	76	12	407		407
2008	19	38	46	59	29	14	47	51	61	10	374		374
2009	24	40	35	83	18	27	53	44	69	16	409		409
2010	19	30	36	75	16	23	52	61	65	18	395		395
2011	22	31	42	85	11	25	60	62	86	18	442		442
2012	27	34	43	92	20	34	44	54	74	24	446		446
2013	20	31	38	89	14	44	53	58	86	15	448		448
2014	17	45	43	144	17	29	55	65	109	21	545		545
2015	25	41	43	118	25	31	62	64	91	14	514		514
2016	32	63	53	105	22	38	39	68	71	26	517		517
2017	17	34	37	132	36	27	38	71	97	24	513		513
2018	15	30	35	101	44	28	38	54	92	27	464		464

STATS PLUS

Town	School	Type, No Res, 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	Avon High School	2 - - -	0	1	-	1	0	1	1	2
Avon	Talcott Mountain Academy	1 - - -	6	0	6	-	5	0	5	5
Baltic	Sayles School	1 - - -	3	0	3	-	3	0	3	5
Bethany	Amity Reg Middle School - Bethany Campus	1 - - -	10	0	10	-	8	0	8	9
Bethel	Bethel High School	2 - - -	0	3	-	2	0	2	2	2
Bethel	St. Mary School	1 - - -	7	0	7	-	6	0	6	6
Bozrah	Fields Memorial School	1 - - -	4	0	4	-	4	0	4	4
Bridgeport	Bassick High School	2 x bp x	0	0	-	1	0	1	1	2
Bridgeport	Blackham School	1 x bp x	0	0	2	-	2	0	2	4
Bridgeport	Bridgeport Military Academy	2 x bp x	0	0	-	1	0	1	1	1
Bridgeport	Bridgeport Regional Aquaculture Center	2 - - x	0	10	-	11	0	11	11	11
Bridgeport	Bridgeport School District	2 - bp x	10	15	0	0	**	**	**	**
Bridgeport	Central High School	2 x bp x	0	0	-	3	0	3	3	3
Bridgeport	Classical Studies Magnet Academy	1 x bp x	0	0	1	-	1	0	1	1
Bridgeport	Fairchild Wheeler Magnet High School	2 x bp x	0	0	-	10	0	10	10	15
Bridgeport	Geraldine Claytor Magnet Academy	1 x bp x	0	0	1	-	1	0	1	3
Bridgeport	James J. Curiale School	1 x bp x	0	0	1	-	**	**	**	**
Bridgeport	John Winthrop School	1 x bp x	0	0	2	-	2	0	2	2
Bridgeport	Multicultural Magnet School	1 x bp x	0	0	2	-	2	0	2	2
Bridgeport	Park City Magnet School	1 x bp x	0	0	1	-	1	0	1	1
Bridgeport	Park City Prep Charter School	1 - - x	10	0	10	-	10	0	10	12
Bridgeport	Roosevelt School	1 x bp x	0	0	1	-	1	0	1	3
Canton	Canton High School	2 - - -	0	3	-	3	0	3	3	3
Cheshire	St. Bridget School	1 - - -	2	0	2	-	2	0	2	2
Danbury	Abbott Tech - Green STEP	2 x gs -	0	0	-	3	**	**	**	**
Danbury	Danbury High School	2 - - x	0	4	-	2	0	2	2	2
Danbury	Immaculate High School	2 - - -	0	2	-	1	0	1	1	1
Danbury	St. Gregory the Great School	1 - - -	8	0	8	-	8	0	8	12
Danbury	St. Joseph School	1 - - -	10	0	9	-	7	0	7	9
Danbury	Westside Middle School Academy	1 - - x	10	0	10	-	9	0	9	9
Danielson	Ellis Tech - Green STEP	2 x gs -	0	0	-	2	0	2	2	6
Darien	Darien High School	2 - - -	0	15	-	11	0	11	11	13
East Hartford	St. Christopher School	1 - - -	2	0	2	-	2	0	2	2
East Lyme	East Lyme High School	2 - - -	0	4	-	2	0	2	2	6
Ellington	Ellington High School	2 - - -	0	1	-	1	0	1	1	1
Fairfield	Assumption Catholic School	1 - - -	4	0	2	-	2	0	2	3
Fairfield	Fairfield College Preparatory School	2 - - -	0	5	-	2	0	1	1	1
Fairfield	Fairfield Ludlowe High School	2 - - -	0	1	-	1	0	1	1	1
Fairfield	Notre Dame Catholic High School	2 - - -	0	2	-	-	**	**	**	**
Fairfield	St. Thomas Aquinas Catholic School	1 - - -	10	0	5	-	4	0	4	6
Falls Village	Lee H. Kellogg School	1 - - -	2	0	2	-	2	0	2	2
Farmington	Farmington High School	2 - - -	0	3	-	-	**	**	**	**
Fishers Island	Fishers Island School	2 - - -	0	4	-	3	0	3	3	3
Forestville	St. Matthew School	1 - - -	4	0	4	-	4	0	4	4
Glastonbury	Glastonbury High School	2 x gp -	0	0	-	14	0	14	14	14
Glastonbury	Glastonbury Public Schools	2 - gp -	4	15	-	0	**	**	**	**
Glastonbury	Smith Middle School	1 x gp -	0	0	2	-	1	0	1	1
Greens Farms	Greens Farms Academy	2 - - -	6	11	5	8	4	7	11	11
Greenwich	Brunswick School	2 - - -	0	15	-	13	0	13	13	20
Greenwich	Carmel Academy	1 - - -	3	0	-	-	**	**	**	**
Greenwich	Greenwich Catholic School	1 - - -	4	0	4	-	4	0	4	6
Greenwich	Greenwich Country Day School	1 - - -	2	0	1	-	1	0	1	1
Greenwich	Greenwich High School	2 - - -	0	15	-	20	0	19	19	19
Groton	Grasso Tech - Green STEP	2 x gs -	0	0	-	-	**	**	**	**
Groton	Sacred Heart School	1 - - -	6	0	6	-	6	0	6	6
Guilford	Guilford High School	2 - - -	0	1	-	1	0	1	1	1
Hamden	Sacred Heart Academy	2 - - -	0	10	-	4	0	4	4	4
Hartford	Bulkeley High School	2 - - x	0	10	-	8	0	7	7	17
Hartford	Environmental Sciences Magnet at Hooker Sch	1 - - x	10	0	6	-	6	0	6	6
Hartford	Green STEP	2 - gs -	0	40	-	0	**	**	**	**
Hartford	Prince Tech - Green STEP	2 x gs -	0	0	-	-	**	**	**	**

School Tracking

Town	School	Type, No Res, 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	Renzulli Academy	1 - - x	6	0	6	-	6	0	6	11
Hebron	RHAM High School	2 - - -	0	1	-	1	0	1	1	1
Kensington	St. Paul School	1 - - -	2	0	1	-	1	0	1	1
Kent	Kent School	2 - - -	0	2	-	1	0	1	1	1
Manchester	East Catholic High School	2 - - -	0	2	-	2	0	2	2	2
Manchester	Manchester High School	2 - - x	0	3	-	3	0	2	2	2
Middletown	Vinal Tech - Green STEP	2 x gs -	0	0	-	-	**	**	**	**
Milford	Lauralton Hall	2 - - -	0	2	-	2	0	2	2	2
Milford	Platt Tech - Green STEP	2 x gs -	0	0	-	2	0	2	2	6
New Britain	CREC Academy of Science and Innovation	2 - - x	0	4	-	-	**	**	**	**
New Britain	Goodwin Tech - Green STEP	2 x gs -	0	0	-	3	0	3	3	8
New Canaan	St. Aloysius School	1 - - -	2	0	2	-	0	2	2	4
New Haven	Betsy Ross Arts Magnet School	1 - - x	4	0	4	-	4	0	4	4
New Haven	Conte West Hills School	1 - - x	2	0	1	-	1	0	1	1
New Haven	Cooperative Arts & Humanities High School	2 - - x	0	2	-	-	**	**	**	**
New Haven	Engineering and Science University Magnet Sch	2 - - x	0	6	-	2	**	**	**	**
New Haven	Hopkins School	1 - - -	1	0	1	-	**	**	**	**
New Haven	St. Bernadette School	1 - - -	2	0	2	-	2	0	2	2
New Haven	Wilbur Cross High School	2 - - x	0	4	-	3	0	2	2	2
New Haven	Worthington Hooker Middle School	1 - - x	6	0	6	-	6	0	6	8
New London	Bennie Dover Jackson Middle School	1 - - x	3	0	3	-	3	0	3	5
New London	Science and Technology Magnet High School	2 - - x	0	15	-	15	0	15	15	19
New Milford	New Milford High School	2 - - -	0	7	-	-	**	**	**	**
Newtown	Newtown Middle School	1 - - -	1	0	1	-	1	0	1	1
Newtown	St. Rose of Lima School	1 - - -	5	0	5	-	5	0	5	5
North Haven	North Haven Middle School	2 - - -	0	1	-	-	**	**	**	**
Norwich	Norwich Tech - Green STEP	2 x gs -	0	0	-	4	0	4	4	7
Norwich	Norwich Technical High School	2 - - -	0	15	-	15	0	15	15	28
Pawcatuck	St. Michael School	1 - - -	4	0	3	-	3	0	3	3
Plantsville	J.F. Kennedy Middle School	1 - - -	2	0	1	-	1	0	1	1
Redding	CT STEM FAIR	2 - cs -	0	7	-	6	**	**	**	**
Redding	CT STEM FAIR - Amity Regional High School	2 x cs -	0	0	-	-	0	6	6	7
Redding	Joel Barlow High School	2 - - -	0	2	-	2	0	2	2	2
Ridgefield	Ridgefield High School	2 - - -	0	7	-	6	0	6	6	6
Rocky Hill	Rocky Hill High School	2 - - -	0	1	-	1	0	1	1	1
Sandy Hook	Newtown High School	2 - - -	0	2	-	2	0	2	2	2
Shelton	Shelton High School	2 - - -	0	8	-	8	0	7	7	10
Shelton	Shelton Intermediate School	1 - - -	3	0	3	-	3	0	3	6
Southington	J.A. DePaolo Middle School	1 - - -	2	0	1	-	1	0	1	1
Southington	Southington Catholic School	1 - - -	2	0	2	-	2	0	2	2
Stamford	Bi-Cultural Day School	1 - - -	4	0	4	-	4	0	4	5
Stamford	Independent - The Harvey School, Katonah, NY	1 - - -	1	0	1	-	1	0	1	1
Stamford	The Catholic Academy of Stamford	1 - - -	6	0	6	-	6	0	6	7
Storrs	E.O. Smith High School	2 - - -	0	2	-	1	1	0	1	1
Stratford	David Wooster Middle School	1 - - -	3	0	-	-	**	**	**	**
Stratford	St. Mark School	1 - - -	6	0	6	-	6	0	6	6
Suffield	Suffield High School	2 - - -	0	15	-	17	0	17	17	24
Suffield	Suffield Middle School	1 - - -	4	0	4	-	4	0	4	8
Trumbull	Christian Heritage School	2 - - -	4	4	4	4	4	4	8	8
Trumbull	St. Joseph High School	2 - - -	0	1	-	1	0	1	1	1
Trumbull	Trumbull High School	2 - - -	0	3	-	3	0	3	3	3
Wallingford	Choate Rosemary Hall	2 - - -	0	3	-	2	0	1	1	1
Wallingford	Lyman Hall High School	2 - - -	0	1	-	-	**	**	**	**
Waterbury	Kaynor Tech - Green Step	2 x gs -	0	0	-	1	**	**	**	**
Waterbury	Our Lady of Mt. Carmel School	1 - - -	2	0	2	-	2	0	2	4
Waterford	Waterford High School	2 - - -	0	1	-	1	0	1	1	1
West Hartford	Hebrew High School of New England	2 - - -	0	1	-	1	0	1	1	1
West Hartford	King Philip Middle School	1 - - -	3	0	3	-	3	0	3	4
West Hartford	Solomon Schechter Day School	1 - - -	1	0	-	-	**	**	**	**
West Hartford	St. Brigid - St. Augustine Partnership School	1 - - -	3	0	3	-	3	0	3	4
West Hartford	St. Timothy Middle School	1 - - -	4	0	4	-	4	0	4	5

Town	School	Type, No Res, 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										
Weston	Weston Middle School	1 - - -	7	0	4	-	4	0	4	6
Westport	Staples High School	2 - - -	0	5	-	4	0	4	4	4
Wethersfield	Wethersfield High School	2 - - -	0	1	-	1	**	**	**	**
Wilton	Middlebrook School	1 - - -	4	0	4	-	4	0	4	4
Wilton	Wilton High School	2 - - -	0	1	-	1	**	**	**	**
Windsor	Academy of Aerospace and Engineering	2 - - x	0	15	-	11	0	10	10	17
Windsor	Greater Hartford Academy of Math and Science	2 - - x	0	10	-	6	0	5	5	9
Windsor	Madina Academy	2 - - -	6	2	2	3	2	3	5	10
Windsor	St. Gabriel School	1 - - -	4	0	4	-	4	0	4	4
Windsor	The Loomis Chaffee School	2 - - -	0	4	-	4	0	3	3	3
Woodbridge	Amity Regional High School	2 - - -	0	15	-	17	0	16	16	16
Schools = 133			246	365	212	284	200	264	464	603

Abbreviations: bp = Bridgeport Public, cs = CT STEM Fair, hs or I = Homeschool/Independent, x = Urban Challenge, gs = Green Step, J, S, P = Junior, Senior, and Jr + Sr Projects, St = Students

School Summary for 2018

	Sch	Proj	Stu
School Reservations	133	611	----
Sch with Appd Projs	120	496	----
Sch Entering Fair	109	464	603

Contact Schools = 133

Reg Schs = 109
Not Reg = 24

Non-Registered Schools = 24

Bridgeport Pub Schs = 12
CT STEM Fair = 01
Glastonbury Schools = 02
Green Step Schools = 09

NO SHOWS (All Schools) = 24

Withdraws = 07
Fair Coordinators = 04
No Shows = 13

2018 CSEF Schools	
Total Contacts	133
In Fair	109

Returning Students

Yrs	Student	Hometown	Grade	School	SchTown	Honors
6 Years - 1 Student						
6	Geradi Maya	New Haven	12	Wilbur Cross High School	New Haven	1
4 Years - 2 Students						
4	Feuerstein Jacob	Woodbridge	11	Amity Regional High School	Woodbridge	1
4	Koenigsberg Batya	New Haven	11	Hebrew High School of New England	West Hartford	2
3 Years - 27 Students						
3	Boudreau Antonios	Ansonia	9	Fairfield College Preparatory School	Fairfield	2
3	Dixit Agrani	Woodbridge	12	Amity Regional High School	Woodbridge	2
3	Du Rosie	New Haven	11	Amity Regional High School	Woodbridge	2
3	Dubovik Ulada	Orange	12	Amity Regional High School	Woodbridge	3
3	Dziekian Brianna	Baltic	12	Norwich Technical High School	Norwich	2
3	Haddad Elias	Danbury	9	Immaculate High School	Danbury	2
3	Hawley Bennett	Cos Cob	11	Greenwich High School	Greenwich	1
3	Lee Madison	Rocky Hill	9	East Catholic High School	Manchester	2
3	Li Vin	Orange	12	Amity Regional High School	Woodbridge	2
3	Michaud Courtney	Norwich	12	Norwich Technical High School	Norwich	2
3	Missios Athena	Uncasville	12	Norwich Technical High School	Norwich	2
3	Mohammed Ahmad	Windsor	9	Madina Academy	Windsor	2
3	Molot Henry	Woodbridge	12	Amity Regional High School	Woodbridge	3
3	Oei John	Hebron	9	East Catholic High School	Manchester	1
3	Paine Ruqayyah	Terryville	10	Madina Academy	Windsor	3
3	Papotto Christopher	Colchester	12	Norwich Technical High School	Norwich	2
3	Pourkavoos Aresh	Avon	9	The Loomis Chaffee School	Windsor	3
3	Roche Gianpierre	Willimantic	12	Norwich Technical High School	Norwich	1
3	Service Zachariah	Suffield	12	Suffield High School	Suffield	3
3	Stollman Ryan	Colchester	12	Norwich Technical High School	Norwich	1
3	Subramaniam Rahul	Cos Cob	11	Greenwich High School	Greenwich	2
3	Sundaram Shobhita	Greenwich	12	Greenwich High School	Greenwich	2
3	Tempesta Kyle	Uncasville	12	Norwich Technical High School	Norwich	2
3	Vipparla Rachna	Milford	9	Lauralton Hall	Milford	3
3	Wang Sophie	Waterford	12	Waterford High School	Waterford	1
3	Yuan Kate	Woodbridge	11	Amity Regional High School	Woodbridge	2
3	Zoghol Al-Yaman	Enfield	9	Madina Academy	Windsor	2
2 Years - 96 Students						
2	Atehortua John Paul	Bridgeport	8	Multicultural Magnet School	Bridgeport	2
2	Barringer Harold	Greenwich	11	Brunswick School	Greenwich	2
2	Benedetti Joseph	Bethany	11	CT STEM Fair - Amity Regional High School	Redding	3
2	Benson-Clarke Isabelle	Marlborough	10	RHAM High School	Hebron	3
2	Bill Hailey	Baltic	11	Norwich Tech - Green STEP	Norwich	2
2	Bonilla Jenifer	Bridgeport	8	Park City Prep Charter School	Bridgeport	2
2	Bove James	Trumbull	12	St. Joseph High School	Trumbull	3
2	Cayer Jules	Shelton	9	Shelton High School	Shelton	3
2	Chandy Alexander	Storrs	11	E.O. Smith High School	Storrs	3
2	Cheela Meghana	Milford	9	Lauralton Hall	Milford	2
2	Coleman John	Norwich	11	Norwich Technical High School	Norwich	3
2	Colgate Daniel	Bridgeport	11	Christian Heritage School	Trumbull	2
2	Cox Amelia	New Haven	8	Worthington Hooker Middle School	New Haven	2
2	Delgado AJ	Riverside	11	Brunswick School	Greenwich	2
2	Dimitrov Kali	Norwalk	8	St. Aloysius School	New Canaan	3
2	Dion John	Suffield	11	Suffield High School	Suffield	2
2	Eswarakumar Carlin	New Haven	11	Wilbur Cross High School	New Haven	1
2	Flaherty Anna	New Fairfield	8	St. Gregory the Great School	Danbury	1
2	Flynn Grace	West Hartford	8	St. Timothy Middle School	West Hartford	1
2	Foley Thomas	Greenwich	11	Brunswick School	Greenwich	1
2	Gasbarro Sofia	Shelton	8	Shelton Intermediate School	Shelton	2
2	George William	Greenwich	11	Brunswick School	Greenwich	2
2	Gilbride Austin	Woodbridge	11	CT STEM Fair - Amity Regional High School	Redding	3

STATS PLUS

Yrs	Student	Hometown	Grade	School	SchTown	Honors	
2	Grott	Samantha	Bozrah	11	Norwich Technical High School	Norwich	3
2	Gupta	Preksha	Rocky Hill	12	Greater Hartford Academy of Math & Science	Windsor	1
2	Hall	Alyssa	Bridgeport	8	Park City Prep Charter School	Bridgeport	3
2	Haller	Emerald	Preston	11	Norwich Tech - Green STEP	Norwich	2
2	Hammond	Samuel	New London	8	Sacred Heart School	Groton	3
2	Hao	Zirui	Rocky Hill	12	Rocky Hill High School	Rocky Hill	3
2	Hari	Dheepa	Avon	10	Avon High School	Avon	2
2	Hari	Jaya	Avon	10	Avon High School	Avon	2
2	Hassan	Ziad	Suffield	11	Suffield High School	Suffield	3
2	Haupt	Christian	West Haven	11	Platt Tech - Green Step	Milford	2
2	Hyland	Bronwyn	New Fairfield	8	St. Joseph School	Danbury	2
2	Jindal	Akshita	Suffield	9	Suffield High School	Suffield	3
2	Kathir	Kavin	Cheshire	8	St. Bridget School	Cheshire	1
2	Kimberlin	Thomas	Greenwich	11	Brunswick School	Greenwich	1
2	LaMonica IV	Michael	Stratford	8	St. Mark School	Stratford	2
2	Lanzillotti	Alex	Stamford	8	St. Aloysius School	New Canaan	3
2	Lawson	Leroy	West Suffield	11	Suffield High School	Suffield	3
2	Lichtenberg	Anna	Stamford	8	Bi-Cultural Day School	Stamford	2
2	Liu	Jody	Orange	10	CT STEM Fair - Amity Regional High School	Redding	2
2	Lu	Tracy	Woodbridge	10	Amity Regional High School	Woodbridge	2
2	Madan	Malavika	South Windsor	12	Greater Hartford Academy of Math & Science	Windsor	2
2	Marino	Collin	Greenwich	11	Greenwich High School	Greenwich	2
2	Marino	Monica	Riverside	8	Greenwich Catholic School	Greenwich	3
2	Martin	Gabrielle	North Stonington	11	Norwich Technical High School	Norwich	3
2	McConnell	Joshua	Baltic	11	Norwich Tech - Green STEP	Norwich	2
2	Mediboina	Srihita	Fairfield	12	Fairfield Ludlowe High School	Fairfield	2
2	Mehta	Ayush	Suffield	8	Suffield Middle School	Suffield	3
2	Menta	Samarth Venkata	Glastonbury	12	Glastonbury High School	Glastonbury	2
2	Minichetti	Dante	Greenwich	12	Greenwich High School	Greenwich	1
2	Montalto	Samuel	Westerly	8	St. Michael School	Pawcatuck	2
2	Mullin	Sean	Redding	11	Joel Barlow High School	Redding	2
2	Mulshine	Ryan	Greenwich	11	Brunswick School	Greenwich	2
2	Nair	Sreenidhi	West Hartford	12	Greater Hartford Academy of Math & Science	Windsor	3
2	Narayanan	Athulya	Glastonbury	11	Glastonbury High School	Glastonbury	2
2	O'Keefe	Conor	Danbury	8	St. Joseph School	Danbury	2
2	Osborne	Jeffrey	Danbury	10	Danbury High School	Danbury	2
2	Ospina	Juan	New Britain	11	Goodwin Tech - Green STEP	New Britain	2
2	Padgett	Nathanael	Lebanon	11	Norwich Tech - Green STEP	Norwich	2
2	Parikh	Khushi	Danbury	8	Westside Middle School Academy	Danbury	1
2	Pasato	Jean	Middletown	11	Academy of Aerospace and Engineering	Windsor	1
2	Pfrommer	Daniel	Darien	12	Darien High School	Darien	1
2	Pillari	Matthew	Greenwich	11	Brunswick School	Greenwich	1
2	Porphy	Asher	Harrison	11	Brunswick School	Greenwich	3
2	Ramos	Christian	Stratford	11	Platt Tech - Green Step	Milford	2
2	Ramthun	Elijah	Bozrah	8	Fields Memorial School	Bozrah	3
2	Rediger	Douglas	Baltic	11	Norwich Tech - Green STEP	Norwich	3
2	Rinaldi	Chris	Enfield	11	Academy of Aerospace and Engineering	Windsor	1
2	Rivera	Daneirys	Bristol	11	Goodwin Tech - Green STEP	New Britain	2
2	Rosa	Yanayra	Newington	8	Environmental Sciences Magnet at M Hooker	Hartford	3
2	Russell	Edward	Colchester	11	Norwich Tech - Green STEP	Norwich	2
2	Saunders	Timothy	New Canaan	11	Brunswick School	Greenwich	3
2	Schommer	Adalyn	Cheshire	10	Sacred Heart Academy	Hamden	3
2	Smith	Alexandra	West Suffield	11	Greater Hartford Academy of Math & Science	Windsor	3
2	Sondhi	Tushar	So Glastonbury	12	Glastonbury High School	Glastonbury	1
2	Srivastava	Arnav	Trumbull	11	Trumbull High School	Trumbull	3
2	Staggs	Abigail	Baltic	8	Sayles School	Baltic	2
2	Szczepanski	Kaitlyn	Stratford	8	St. Mark School	Stratford	1
2	Tainter	Morgan	Gilman	8	Fields Memorial School	Bozrah	2
2	Talanki	Vishakh	South Windsor	11	Academy of Aerospace and Engineering	Windsor	1
2	Tenerowicz	Keri	Bethany	11	Amity Regional High School	Woodbridge	2

Returning Students

Yrs	Student	Hometown	Grade	School	SchTown	Honors	
2	Toldo	Caroline	Fishers Island	12	Fishers Island School	Fishers Island	3
2	Toof	Aaron	Voluntown	11	Norwich Tech Green-STEP	Norwich	3
2	Tucker	Caroline	Danbury	8	St. Mary School	Bethel	2
2	Tully	Andrew	Norwalk	8	St. Aloysius School	New Canaan	3
2	Urban	Sage	New Haven	8	Worthington Hooker Middle School	New Haven	2
2	Wang	Sophia	Woodbridge	10	Amity Regional High School	Woodbridge	2
2	Wehelie	Samatar	Suffield	12	Suffield High School	Suffield	3
2	Werenski	Aidan	Suffield	11	Suffield High School	Suffield	3
2	Williams	Kelsey	Gales Ferry	11	Norwich Tech - Green STEP	Norwich	3
2	Wilson	Alexa	Rocky Hill	12	Greater Hartford Academy of Math & Science	Windsor	1
2	Woo	Nicholas	Greenwich	11	Greenwich High School	Greenwich	1
2	Young	Kyle	Shelton	10	Shelton High School	Shelton	3
2	Zhang	Theodore	West Hartford	8	King Philip Middle School	West Hartford	1

Total Returns = 126 Students

International Competitions

Intel ISEF

May 13 - 18, 2018
Pittsburgh, Pennsylvania

I-SWEEEP

CANCELED for 2018

GENIUS Olympiad

June 11 - 16, 2018
Oswego, New York

Competitors in International Competitions

Intel ISEFLife Sciences

Emily Philippides Greenwich High School, Greenwich CT
Hiba Hussain Greenwich High School, Greenwich CT

Physical Sciences

Maya Geradi Wilbur Cross High School, New Haven CT
Raina Jain Greenwich High School, Greenwich CT

Biotechnology

Shobhita Sundaram Greenwich High School, Greenwich CT

Urban School Challenge

Srikar Godilla, Cristian Rodriguez (team)
 CREC Academy of Aerospace and Engineering, Windsor CT

Engineering

Keshav Vedula CREC Academy of Aerospace and Engineering, Windsor CT

GENIUS Olympiad

Sophie Wang Waterford High School, Waterford CT

Khushi Parikh Westside Middle School Academy, Danbury CT

Elias Haddad Immaculate High School, Danbury CT

Raina Jain Greenwich High School, Greenwich CT

Christian Haupt, Taylor Krieder and Christian Ramos (team)
 Platt Technical High School, Milford CT

ISEF Abstracts - CSEF Life SciencesNAME: **Emily Philippides**

SCHOOL: Greenwich High School, Greenwich CT

TEACHER/MENTOR: Andrew Bramante

TITLE: ***Controlled-Release Delivery of Ovarian Anticancer Paclitaxel via Vortex Ring, Donut-Shaped Hydrogels***

Ovarian cancer affects countless women worldwide. Unfortunately, systemic chemotherapy for treatment of ovarian cancer necessitates one-time super dosing, leading to the onset of severe side effects, and like radiation therapy, causes the destruction of neighboring, healthy cells. A method where chemotherapy is temporarily implanted at the cancer and subsequently time-released would be preferred, to adhere the drug to the tumor, and minimize side effects associated with immediate overdosing. Here, such a device is engineered, via donut-shaped hydrogel vortex rings that are formed and loaded with a chemotherapy agent. Specifically, 750g of paclitaxel (PAC) is dissolved in 1ml aqueous 2% sodium alginate, a droplet of which is then injected into a 5mM CaCl₂ and 95mM MgCl₂ buffer to create a 1mm vortex ring hydrogel, with a 7.5g drug load. Under simulated ovarian conditions, each sticky, PAC-loaded vortex ring steadily releases its chemotherapy, so that 50% is released in 4hours, with up to 5.4g delivered in a maximum of 20hours (72% release), post-application. Simulation of pointed placement of the PL-VRH donuts, their adherence to a cancerous tumor in the ovarian cavity, resistance to movement due to aqueous conditions, and subsequent release of the paclitaxel, was carried out using a porcine intestine membrane model. For delivery of a localized PAC dosage that concurs current IP-injection (342g for a typical 57cm² ovary), it was determined that ~60 hydrogel vortex rings can be directly delivered to the ovarian site via 600l injection of medicated precursor, ensuring direct and extended interaction of the chemotherapy and cancer.

NAME: **Hiba Hussain**

SCHOOL: Greenwich High School, Greenwich CT

TEACHER/MENTOR: Andrew Bramante

TITLE: ***Non-Invasive, Low-Cost Detection of Chronic Obstructive Pulmonary Disease (COPD) via Smartphone Breath Analysis***

Chronic Obstructive Pulmonary disease (COPD) is expected to become the third largest killer worldwide by 2030. Current diagnosis mechanisms are time-consuming and costly, highlighting the need for a more accessible and rapid diagnosis so that the disease can be treated at its earliest stage. In this research, a rapid and simple smartphone-based detection of COPD was created. Single-walled carbon nanotubes (SWCNTs) were combined 2-hydroxy-1,1,1,3,3,3-hexafluoropropyl)-1-naphthol (HFIPN) in a 2:1 mass ratio, to create a COPD-breath gas specific PENCIL powder. When integrated into a Texas Instruments NFC Tag, and exposed to COPD breath gases isoprene, octadecane, hexanal, and undecane, conformational change in the PENCIL-HFPN selector was realized by an increase in the material's resistivity. Exposure of the PENCIL-on-NFC tag to 1ppb and 1 ppm COPD breath gases caused an increase in PENCIL resistance from 13-13.7k and 12.7-27k, respectively. Change in PENCIL-on-NFC tag resistivity produces changes in current usage drawn from a Smartphone, when read by the device, and acts as the basis for COPD detection. After 1 minute of exposure to typical 1ppb concentration of COPD breath gases for an afflicted patient, Smartphone read of the PENCILon-NFC tag drew only 1.5mA of current, which is 3.5mA less than current used under normal, ambient conditions. Increase in PENCIL resistance, and subsequent Smartphone current reduction was found to be COPD gas specific and was used to train a new Smartphone application to provide a 4-minute diagnosis for COPD, based on calibration of the circuit's current usage, and its effect on the phone's battery usage.

ISEF Abstracts - CSEF Physical Sciences

NAME: **Maya Geradi**

SCHOOL: Wilbur Cross High School, New Haven CT

TEACHER/MENTOR: Dr. Bernard Hulin

TITLE: *Synthesis and Separation of Chiral Compounds in the Preparation of a PET Radiotracer Targeting Synaptic Vesicle Glycoprotein 2A*

Positron emission tomography (PET) is a promising technology that utilizes radiotracers for producing detailed, 3D images of the body. The radiotracer studied in this project targets the SV2A receptor in the brain, which is a marker of synaptic density and hence can be used to study Alzheimer's disease and epilepsy. This project aims to synthesize an enantiopure compound in preparation of a chiral PET radiotracer. The racemic compound was synthesized at -20C and purified using a silica gel column. Reaction progress was monitored by thin layer chromatography and structure was confirmed utilizing NMR. Conditions required for separation using the HPLC system were optimized by testing varying combinations of organic solvents (0–100%), in conjunction with different chiral columns and flow rates (0.1 –2mL/min). Three chiral catalysts were tested under varying reaction conditions for synthesizing an enantiopure compound. The racemic compound was successfully synthesized and separated using the HPLC system. Full separation was achieved by using ethanol and hexane in a 25%/75% combination, 0.1% TEA, 1.0mL/min flow rate and the CHIRALCEL OJ-H column. The quinidine catalyst preliminarily yielded a successful 90/10 enantiomeric ratio on a tested compound. The other 2 catalysts produced a racemic compound. The quinidine catalyst is being tested under new conditions to further improve the enantiomeric ratio. Using chiral catalysts to optimize the synthesis of the radiotracer could increase product yield and lower the synthesis time and cost. This increases the viability of this PET radiotracer for diagnostics and research of Alzheimer's disease, epilepsy and other neurodegenerative diseases.

NAME: **Raina Jain**

SCHOOL: Greenwich High School, Greenwich CT

TEACHER/MENTOR: Andrew Bramante

TITLE: *Magnetically Induced, Visual Detection of Trace Arsenic Contaminants in Water Using Fe₃O₄ Photonic Crystal Structures*

. Arsenic, a highly toxic metal contaminant commonly found in our drinking water, is responsible for many accidental deaths. Currently, the only visual arsenic-in-water detection system is tedious, and can detect arsenic concentrations of 250ppb or more, well above the EPA 10ppb water-action-level. To combat arsenic drinking water contamination, a sensitive, inexpensive, portable, and easily-visualized detection system is needed and has been developed in this research. To begin, superparamagnetic, SiO₂-coated, polyacrylic acid-capped Fe₃O₄ colloidal nanocrystals (CNC's) were synthesized, and their photonic and physical properties characterized via SEM and UV-Visible spectroscopy. Application of 80-140G magnetic field from a portable, 3" magnet altered the refractive indices of the photonic structures, so that long-to-short wavelength, red-to-blue color change is easily visualized from the native brown CNC solution color. Addition of 1ml of 10ppb Arsenic, however, to 2ml of 8mg/ml CNCs causes alteration of the photonic characteristics so that long-wavelength shift occurs with an applied magnetic field (native brown to orange). This new color changing behavior is specific to the arsenic contaminant, and attributed to As-O interactions at the surface of the SiO₂-coated

ISEF Abstracts - Special Categories**Alexion Biotechnology**

NAME: Shobhita Sundaram
SCHOOL: Greenwich High School, Greenwich CT
TEACHER/MENTOR: Andrew Bramante

TITLE: *Detection of Early-Stage Alzheimer's Disease via Hierarchical Classification of Proteomic and Clinical Profiles*

Alzheimer's disease (AD) is a neurodegenerative, fatal brain disease characterized by impairments in memory, language, reasoning, and cognition. Identifying AD in its earliest stages of Mild Cognitive Impairment (MCI) allows patients access to the best possible treatments, and time to make crucial caregiving and financial decisions. Currently, no accurate diagnostic tests exist for early-stage AD; internationally just one in four patients are diagnosed. In this study, the development of a machine learning tool to accurately diagnose AD and identify high-risk MCI patients is proposed, using neuropsychological and blood proteomic profiles. A novel two-layer hierarchical framework was designed: The first layer diagnoses patients as healthy, MCI, or AD, and the second layer analyzes healthy/MCI patient profiles to predict future AD onset. The online Alzheimer's Neuroimaging Initiative database of 560 patients was used to build the first model. A subset of 368 patients was used for the second model, using multiple observations per patient across a 12-month timespan. For each classification layer, a multi-pronged approach was developed to extract the most relevant biomarker data from patient profiles, integrating univariate and multivariate methods. Upon evaluation, the first model diagnosed patients with a 91% accuracy, based on linear components extracted from proteomic profiles. The second model predicted future AD onset for current MCI patients with a 92% ROC accuracy within a 6-48-month timeframe, using biomarkers selected from both proteomic and neuropsychological profiles. These results far outperform prior research and indicate that this tool will provide a low-cost, minimally invasive method of detecting early-onset AD.

Urban School Challenge

NAME: **Srikar Godilla, Cristian Rodriguez (team)**
SCHOOL: CREC Academy of Aerospace and Engineering, Windsor CT
TEACHER/MENTOR: Dr. Michelle Bellinger

TITLE: *Effect of Experimental Parameters on Forming Prince Rupert's Drops for Maximum Strength and Toughness*

The history of modern glass starts 400 years ago with the creation of the world's first Prince Rupert's Drop a thermally shocked glass bulb. It is created by dropping molten glass into distilled water causing the glass drop to cool rapidly, forming compressive stresses on the exterior of the drop. The inside of the drop cools at a slower rate forming internal tensile stress. The combination of compression and tension make the drop very difficult to break. This research seeks to enhance the strength of the drop by varying the concentrations of contaminants in solution. Poly vinyl acetate (PVA) as a contaminant suggested the largest increase in strength and was chosen as the principle variable to test. Specimens were prepared with varied concentrations of PVA (2-70%) at constant temperature and solvent composition. Drops were tested and measured under compression revealing the maximum strength, Young's Modulus, and toughness. As the concentration of PVA increased from 2% to 50%, there was an increase in maximum compressive strength and toughness; however, concentrations greater than 50% resulted in a decrease in mechanical performance. High-speed video analysis during compression testing showed that fracture occurs internally towards the end of the tail, suggesting the air gap has a great effect on the drops strength. Initial results from finite element analysis (FEA) indicate that the air bubble plays an important role in the fracture of the material.

ISEF Abstracts - Special Categories

UTAS EngineeringNAME: **Keshav Vedula**

SCHOOL: CREC Academy of Aerospace and Engineering, Windsor CT

TEACHER/MENTOR: Dr. Michelle Bellinger

TITLE: *Undulated Leading-Edge Airfoils in Low to Medium Reynolds Number Regime*

Biologically inspired airfoil designs have recently become of increasing interest to the aerospace industry for their aerodynamic versatility. One approach involves mimicking the undulating leading-edge of humpback whale fins. Such airfoils have been shown to improve stall characteristics in specific airflow regimes depending on the relative turbulence of the flow. This research project explored the validity of these biomimetic airfoils in the transitional Reynolds number regime ($Re=120,000-500,000$). The study featured two NACA 2415 airfoils: a traditional design, and an experimental design with a sinusoidal leading-edge that mimics the tubercle protuberances on the leading-edge of humpback whale fins. Wind tunnel testing was conducted in the transitional regime with 3D-printed prototypes; the coefficients of lift and drag were calculated for both airfoils at varying angles of attack. A numerical study using Computational Fluid Dynamics was also executed under the same conditions to provide flow visualization and a secondary set of data. Experimental data verified numerical predictions that the tubercle airfoil would stall more gently and consistently compared to the control airfoil. However, the wind tunnel testing revealed that the gain in stability came with a slight loss in efficiency in the transitional regime ($Re\sim 400,000$). Flow visualization highlighted that the troughs in the leading edge acted as streamwise vortex generators, accelerating channels of air and inducing a low-pressure region inside the troughs. This explains the biomimetic airfoil's stable performance in the post-stall regime compared to the control airfoil, suggesting its potential aviation applications for low-altitude subsonic aircraft.

GENIUS Olympiad Abstracts

NAME: **Sophie Wang**

SCHOOL: Waterford High School, Waterford CT

TEACHER/MENTOR: Michael O'Connor

TITLE: *Development of a Novel Copepod-Based Mosquito Ovitrap*

Mosquito-control systems that are inexpensive, environmentally-sound and low-maintenance are lacking. Cyclopoid copepods, small aquatic organisms that have the ability to destroy mosquito larvae, have been used in Vietnam and other places for mosquito control. Utilizing copepods' larvae-destroying ability, this project aimed to develop a copepod-based ovitrap for residential mosquito control and test its real-world utility. Both copepods captured from a local pond and ones purchased from a commercial supplier reduced 95% of the larvae population in 5 days; this rate was maintained even in the presence of copepods' natural food source, algae. These results show that effective larvae-destroying copepods can be sourced at low cost from local ponds and self-sustained with naturally occurring algae when larvae are absent. Optimum ovitrap conditions, including black color and grass-covered pond water, were identified to attract the most egg-laying mosquitoes. An engineered upper layer of the ovitrap effectively prevented the loss of copepods during rain fall. Without rainfall, the evaporation rate of water in the ovitrap was measured at 0.21 cm/day, showing that a typical ovitrap (height = 25 cm) will not need water replenishment during the mosquito season. When the ovitraps were placed outdoors for mosquitoes to lay eggs in, the copepods inside destroyed 98.6% of larvae hatched. This project developed a novel copepod-based ovitrap that attracts egg-laying mosquitoes and destroys their larvae. Since it utilizes free, local copepods, which feed on algae in the absence of larvae, this ovitrap provides a cheap, environmentally-friendly and low-maintenance mosquito-control solution for residential communities.

GENIUS Olympiad Abstracts**NAME: Khushi Parikh**

SCHOOL: Westside Middle School Academy, Danbury CT

TEACHER/MENTOR: Jonathan Neuhausel

TITLE: *Image Recognition to Diagnose Lyme Disease*

The application of convolutional neural networks to detect the bullseye rash present after contraction of lyme pathogen *B. Burgdorferi*, is inspired by the 200% increase in reported Lyme Disease cases from the year 2015 to 2017. Using fine tuning procedures, vgg16, a deep learning network, was fine tuned through replacement of its fully connected layers and retraining of terminal neurons. The convolutional neural network was construed and overwritten in the language Python to achieve image recognition. Five variations of fine-tuned models were fabricated, each trained using a batch size differing by two units, to explore the effects of batch size on progression validation accuracy. It was accurately postulated that a specific range of batch sizes would best distribute weights when faced with a linear regression problem. Batch sizes exceeding and preceding this range would be subject to variation surpassing boundaries of an optimization algorithm, in case of the former, or overfitting of weights in the case of the latter. Using 35 images per category for training, the number of backpropagation initializations range from 175 to 35 iterations. Batch sizes 2, 4, 6, or 175-59 weight updates, yield the greatest accuracy, 93.75%, 96.66% and 90.00% respectively. The effects of batch size on accuracy will vary depending on method of transfer learning, epoch size, and derivative of the loss curve. This model's interactions with images of clear skin and lyme rashes is a large epidemiologic and public health advancement; furthermore, promising potential translation to a software application distinctly accessible via phones.

NAME: Elias Haddad

SCHOOL: Immaculate High School, Danbury CT

TEACHER/MENTOR: Mrs. Bridget Henry

TITLE: *Effective Catalytic Conversion of Plastic Waste into Fuel*

Plastic has become an indispensable part of every aspect of our society. Highly inert polyethylene (PE) produced annually on 100 million metric tons. It constitutes 60% of the total plastic of municipal solid waste. Thermal and catalytic pyrolysis requires $>400^{\circ}\text{C}$. Recently, a dual catalytic hydrogenation-dehydrogenation and cross alkane metathesis (CAM) processes was developed to allow degradation of polyethylene to fuel at 150°C over 3 days. The objective of this project is to study the CAM by replacing the heterogeneous $\text{Re}_2\text{O}_7/\text{Al}_2\text{O}_3$ catalyst with effective homogeneous Ru-carbene catalyst (Grubbs catalyst) to reduce reaction time and temperature. 5-decene and stilbene were selected to evaluate CAM reaction time at 120°C . Gas chromatography and mass spectrometry (GC-MS) used for analysis. The first experiments heated for 1h and 2h, GC-MS analysis resulted in similar two sets of multiple peaks that differ in 14 mass units, which is consistent with $-\text{CH}_2-$ fragments. One set consistent with stilbene/alkene CAM products and the other consistent with only 5-decene related alkenes ranging from C(6) to C(16). The structures confirmed by best match to MS database. These results not only proved effective fast CAM but also evident equally fast alkene isomerization in a dual synergistic mechanism, beneficial in catalytic degradation of long chain alkenes. The CAM/Isomerization reaction with 5-decene in absence of stilbene reproduced effective formation of alkene mixture. Highly effective CAM reduced reaction time from 3 days to 1 hour. Furthermore, effective alkene isomerization was discovered during the CAM, helps degrading long polymers into short hydrocarbon fuel.

GENIUS Olympiad Abstracts

NAME: **Raina Jain**

SCHOOL: Greenwich High School, Greenwich CT

TEACHER/MENTOR: Andrew Bramante

TITLE: ***Magnetically-induced, Visual Detection of Trace Arsenic Contaminants in Water Using Fe₃O₄ Photonic Crystal Structures***

Arsenic, a highly toxic metal contaminant commonly found in our drinking water, is responsible for many accidental deaths. Currently, the only visual arsenic-in-water detection system is tedious, and can detect arsenic concentrations of 250ppb or more, well above the EPA 10ppb water-action-level. To combat arsenic drinking water contamination, a sensitive, inexpensive, portable, and easily-visualized detection system is needed, and has been developed in this research. To begin, superparamagnetic, SiO₂-coated, polyacrylic acid- capped Fe₃O₄ colloidal nanocrystals (CNC's) were synthesized, and their photonic and physical properties characterized via SEM and UV-Visible spectroscopy. Application of 80 -140G magnetic field from a portable, 3" magnet altered the refractive indices of the photonic structures, so that long-to-short wavelength, red-to-blue color change is easily visualized from the native brown CNC solution color. Addition of 1ml of 10ppb Arsenic, however, to 2ml of 8mg/ml CNCs causes alteration of the photonic characteristics, so that long-wavelength shift occurs with applied magnetic field (native brown to orange). This new color changing behavior is specific to arsenic contaminant, and attributed to As-O interactions at the surface of the SiO₂-coated CNCs. Other typical metal contaminants did not share this same metal- oxide CNC-coating affinity. For the consumer friendly, rapid Arsenic-in-water assay, a color code was developed to detect/indicate as little as 10ppb As-contaminant, with color change at 10ppb increments. In the field, drops of suspect water are added to the CNC solution at 1:2 (v/v) in a small vial; Arsenic contamination is determined in seconds via color change through the application of a small magnet.

NAME: **Christian Haupt, Taylor Krieder and Christian Ramos (team)**

SCHOOL: Platt Technical High School, Milford

TEACHER/MENTOR: Jessica Stamp

TITLE: ***Domestic Water Reuse System***

The purpose of this experiment was to test water quality of the domestic water reuse system. In order to evaluate the water quality, the potability of the system and MBAS(Methylene Blue Anionic Surfactants) were tested for greywater contamination of common household products such as mouthwash, toothpaste, shaving cream and shampoo. (Bacteria was not tested.) The standard water potability test showed that the water was not potable because it had a high pH. The MBAS test showed that the presence of surfactants had been reduced by 75.34%, but had not been eliminated. The levels in the water do not meet the EPA potability standards. While the levels are safe for some household reuse, such as toilet water, at this time additional filtration steps need to be added to the system to further reduce surfactants and pH before it is safe to use to water lawns or wash clothes.

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