



Connecticut Science & Engineering Fair

Quinnipiac University

March 14 - 18, 2017

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Final Judging Results

Award Legend

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

Alexion Biotechnology Awards

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

7th Grade

Danbury Westside Middle School Academy Jon Neuhausel

2033 L7 Pharmaceuticals In Our Water: How Can These Hazardous Chemicals Be Filtered?

Award 1 Student(s) Khushi Parikh Grade 7 Town Danbury

- * Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 7th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS

West Hartford St. Timothy Middle School Danielle Locke

2022 L7 Green Tea: A Simple Solution for a Bananas Problem?

Award 2 Student(s) Grace Flynn Grade 7 Town West Hartford

- * Pfizer Life Sciences Awards --- 1st Place- Life Sciences 7th grade- \$200 & trophy and Invitation to Compete Broadcom MASTERS
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology 7th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS
- * Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School Life Sciences

Bozrah Fields Memorial School Mrs. E. Brown

5008 P7 Orb Characteristics and Containment

Award 3 Student(s) Elijah Ramthun Grade 7 Town Bozrah

- * Pepsico Physical Sciences Awards --- 5th Place- Physical Sciences 7th Grade Individual - trophy
- * People's United Bank Mathematics Awards - with ATOMIC --- 1st Place Middle School- \$150 from ATOMIC, and Trophy, \$300 from People's United Bank
- * UTC Aerospace Systems Awards for Excellence in Engineering --- 4th Place- Engineering 7th grade- trophy
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & 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

Pawcatuck St. Michael School Mrs. Anna-Helene Grossomanides

2018 L7 Hydroponics - A World Without Dirt

Award 4 Student(s) Anne Drago Grade 7 Town Pawcatuck

- * Pfizer Life Sciences Awards --- 4th Place- Life Sciences 7th grade- trophy
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology 7th grade- trophy
- * Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF
- * University of Connecticut - Physics Department --- UCONN Early College Experience Program: Life Sciences - Co-Op \$100 Gift Certificate



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Newtown St. Rose of Lima School John Dalton

2001 L7 The Effect of Petroleum Products on the Growth of Ramshorn Snails (Planorbis Rebrum)

Award 5 Student(s) Gregory Gargano Grade 7 Town Sandy Hook

- * Pfizer Life Sciences Awards --- Finalist - Life Sciences 7th grade - CSF Medallion
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology 7th grade- trophy
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF

Danbury St. Joseph School Ms. Jabbour

2007 L7 The Effects of X-ray Radiation on Yeast

Award m Student(s) Conor O'Keefe Grade 7 Town Danbury

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF

Meriden ACES Thomas Edison Middle School Todd Solli

4014 PT Fats In Cooking Oils

Award m Student(s) Ariana Alston Grade 7 Town Meriden
Selena Galvan Grade 7 Town Meriden

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- * Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner

New Haven St. Aedan-St. Brendan School Michael Celentano

2019 L7 Rethink your drink

Award m Student(s) Aaron Brogdon-Hill Grade 7 Town New Haven

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

Stamford Bi-Cultural Day School Christopher Graseck

2025 L7 An Analysis of Nitrogen and Phosphate Fertilizer on Algae Growth

Award m Student(s) Anna Lichtenberg Grade 7 Town Stamford

- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- * Project Oceanology --- Junior-Identification guide, t-shirt, 1 week residential summer camp
- * Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash

Windsor Madina Academy Saqib Chariwala

4013 PT Light Intensity and Photosynthesis: How different colors of light and their intensities affect photosynthesis?

Award m Student(s) Sakinah Caesar Grade 7 Town Simsbury
Sheza Chaudhry Grade 7 Town Windsor Locks

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- * Association for Women Geoscientists --- Certificate & \$25 gift card to Amazon given by CSEF



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8th Grade

Danbury Westside Middle School Academy Andrea LaRosa

2537 L8 Testing CNT (Carbon Nanotubes) to filter E. coli Infected Water Samples

Award 1 Student(s) Lasyapriya Josyula Grade 8 Town Danbury

- * Sustainable Resources and Practices Awards --- 3rd Place Middle School - \$200 Cash and Trophy
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$500 & trophy and Invitation Compete in Broadcom MASTERS

Hartford Sport and Medical Sciences Academy Christine Demusz

5508 P8 Natural Plastic: Milk Plastic Biodegradation vs. Commercial Plastic Degradation

Award 2 Student(s) Madison Lee Grade 8 Town Rocky Hill

- * Pepsico Physical Sciences Awards --- 5th Place- Physical Sciences 8th Grade Ind. - trophy
- * CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- 1st Place Middle School - \$300 and Trophy, Medallion
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion
- * UTC Aerospace Systems Awards for Excellence in Engineering --- 1st Place- Engineering 8th grade- \$500 & trophy and Invitation Compete in Broadcom MASTERS
- * Connecticut Academy of Science and Engineering Middle School Urban School Challenge Award --- Urban School Challenge 1st MS- \$250 Cash Award, Invite to attend CASE's Annual Mtg & \$500 to School Science Department for Equipment/Supplies
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology 8th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS
- * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related
- * Urban School Challenge 1st Place Middle School Awards --- Highest Placing 8th grader- GENIUS-Olympiad Competition -\$500 travel stipend
- * GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project

Trumbull Christian Heritage School Theresa Miller

5555 P8 The fabrication and testing of various fruit juice dye-sensitized solar cells with the addition of preservatives

Award 3 Student(s) Rachel Brooks Grade 8 Town Trumbull

- * Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- * Energize CT/eesmarts Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology 8th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS
- * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, middle school, \$100 cash award
- * Demos R Us Award --- \$150 Cash Award- Clear Execution of Research

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean

5564 P8 Pen-nik

Award 4 Student(s) Nikhil Mali Grade 8 Town Woodbridge

- * Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology 8th grade- trophy



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Farmington Irving A. Robbins Middle School Kerry Visone

5530 P8 Making concrete more energy efficient and lightweight.

Award 5 Student(s) Angela Sadlowski Grade 8 Town Unionville

- * Pepsico Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- * UTC Aerospace Systems Awards for Excellence in Engineering --- 3rd Place- Engineering 8th grade- \$100 & trophy and Invitation Compete in Broadcom MASTERS
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology 8th grade- trophy
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * GCS Award for Excellence in Transportation Engineering --- \$250 cash and plaque

Bethany Amity Reg Middle School - Bethany Campus Kevin Berean

4010 PT Using Nanotechnology to Clean Oil Spills

Award m Student(s) Aamnah Malik Grade 8 Town Woodbridge
Kathleen Inclima Grade 8 Town Woodbridge

- * Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * National Oceanic and Atmospheric Administration --- Certificate and medallion, ,and \$25 Amazon gift card given by CSEF

Bridgeport High Horizons Magnet School Portia Scott-Thiam

2513 L8 Hydroponics vs. Fogponics

Award m Student(s) Rebecca Abirached Grade 8 Town Bridgeport

- * CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner
- * Southeastern New England Marine Educators --- Outstanding project in aquatic Science \$100 award and membership in SENEME - 1st place Junior and t-shirt

Danbury Westside Middle School Academy Jonathan Neuhausel

5531 P8 The Effects of Different Flours on the Breaking Point and Decomposition Rate of an Edible Spoon.

Award m Student(s) Sahana Chinthak Grade 8 Town Danbury

- * Pepsico Physical Sciences Awards --- 4th Place- Physical Sciences 8th Grade Ind. - trophy
- * CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- 2nd Place Middle School - \$200 and Trophy, Medallion
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre

Hartford Environmental Sciences Magnet School at Mary Kirsten Devlin

2501 L8 Hydroponics: Floating or Flowing?

Award m Student(s) Connor Rego Grade 8 Town Winsted

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion



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Trumbull Christian Heritage School Theresa Miller

2533 L8 The Effect of Martian Regolith on Vegetable Germination for Extra Terrestrial Colonization

Award m **Student(s)** Amanda Shipman **Grade** 8 **Town** Trumbull

- * Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 8th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

High School

Greenwich Greenwich High School Andrew Bramante

6015 PS Development of a CNT/ZnO/TiO₂ membrane for visible-light induced photocatalytic filtration of water-borne organic and bacterial pollutants

Award 1 **Student(s)** Michelle Xiong **Grade** 11 **Town** Riverside

- * Pepsico Physical Sciences Awards --- 5th Place- Physical Sciences Senior High Individual - Plaque
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * UTC Aerospace Systems Awards for Excellence in Engineering --- Finalist - Engineering Senior High - CSF Medallion
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology Senior High- Trip to compete at Intel ISEF, \$1000 & 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 given by CSEF, possible advance to further competition
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Coherent, Inc. Richard Hart Award for Excellence in Photonics --- \$300 cash, plaque, invitation to lunch and tour Coherent factory

New Haven Wilbur Cross High School Charlene Woodland

3013 LS Formulation of Gelatin-Hyaluronic Acid Blend Cross-Linked Gels for Potential Tissue Applications: Cost-Effective, Patient Specific, Alternative Treatment of Labral Tears of the Hip

Award 2 **Student(s)** Sophie Edelstein **Grade** 10 **Town** New Haven

- * Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High- \$300 & Plaque, Trip to compete at Intel ISEF
- * CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- 4th Place High School - Plaque, Medallion
- * UTC Aerospace Systems Awards for Excellence in Engineering --- 1st Place- Engineering Senior High- Trip to compete at Intel ISEF, \$500 & plaque,
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology Senior High- \$500 & plaque
- * Otero Family Award --- The Otero Family Award; \$200 cash
- * 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 Biochemistry

Greenwich Greenwich High School Andrew Bramante

3064 LS A New Precipitate Assay relating to Palladium Blood Contaminants for Early Detection of Chagas

Award 3 **Student(s)** Manuel Lopez **Grade** 11 **Town** Riverside

- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology Senior High- \$300 & plaque



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Greenwich Greenwich High School Andrew Bramante

3125 LS PDE-4 Inhibitor-Assisted Antibiotic Suppression of Borrelia Biofilm Growth for Treatment of Chronic Lyme

Award 4 **Student(s)** Sophia Chow **Grade** 11 **Town** Old Greenwich

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology Senior High- \$200 & plaque
- * Society for In Vitro Biology --- Certificate and \$25 Amazon gift card given by CSEF

Greenwich Greenwich High School Mr. Andy Bramante

3060 LS Cost-Effective, Portable Paper-Based Diagnosis of Alzheimer's Disease: Targeting A β Oligomers Using Curcumin-PLGA-Ceria Nanoconjugates as Artificial Biomarkers

Award 5 **Student(s)** William Yin **Grade** 12 **Town** Riverside

- * UTC Aerospace Systems Awards for Excellence in Engineering --- 5th Place- Engineering Senior High- \$100 & plaque
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- \$100 & plaque

Glastonbury Glastonbury High School Diane Pintavalle

3052 LS Flu Induced Alterations In Muscle Cytokine Expression Due To Aging

Award m **Student(s)** Ronak Mahatme **Grade** 12 **Town** Glastonbury

- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

Greenwich Greenwich High School Mr. Bramante

3117 LS Targeted Anticancer Properties of Honey Bee Melittin via Cell Surface Lipid Disruption

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

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Cell and Molecular Biology

Greenwich Greenwich High School Mr. Bramante

3109 LS Platelet Membrane Coating Bio-interfacing of Pravastatin to Increase Removal of Arterial Plaque

Award m **Student(s)** Haley Stober **Grade** 11 **Town** Old Greenwich

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * UTC Aerospace Systems Awards for Excellence in Engineering --- Finalist - Engineering Senior High - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

Greenwich Greenwich High School Andrew Bramante

3010 LS Rapid Colorimetric Field Monitoring System for Zika Virus in Mosquito Populations via DNAzyme-Functionalized Gold Nanoparticles

Award m **Student(s)** Rahul Subramaniam **Grade** 10 **Town** Cos Cob

- * Pfizer Life Sciences Awards --- 5th Place- Life Sciences Senior High- Plaque
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- * Bob Harris Fix It Award --- \$75 and Certificate for ingenuity in using material and tools



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Woodbridge Amity Regional High School Deborah Day

3006 LS Dissecting the role of Desmosterol in regulating macrophage immune activation during atherogenesis

Award m **Student(s)** Agrani Dixit

Grade 11 **Town** Woodbridge

* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion