



Connecticut Science & Engineering Fair

Quinnipiac University

March 15 - 19, 2016

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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 Jonathan Neuhausel

2005 L7 Study of Various Starch-based Biopolymers

Award 1 **Student(s)** Lasya Josyula **Grade** 7 **Town** Danbury

- * 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 --- 2nd Place- MS Life Sciences- \$200 / plaque
- * CASE Urban School Challenge Awards with Travelers --- 1st Place Middle School - \$300 and Trophy, Medallion
- * Sustainable Resources and Practices Awards --- 2nd Place Middle School - \$300 Cash and Trophy
- * Connecticut Academy of Science and Engineering Middle School Urban School Challenge Award --- Urban School Challenge 1st MS- \$250 Cash Award, Invite to attend CASE's Annual Mtg & \$500 to School Science Department for Equipment/Supplies
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 7th grade- \$300 & trophy
- * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp
- * **The Karen J. Howell Middle School Award for "Learning and Serving"**
 --- The Karen J. Howell Middle School Award for "Learning and Serving" - \$1000
 Life Science

Wilton Middlebrook Middle School Paige Randall

2065 L7 Banana Peels: Second Life as a Water Purifier

Award 2 **Student(s)** Anika Bhagavatula **Grade** 7 **Town** Wilton

- * Pfizer Life Sciences Awards --- 2nd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- MS Life Sciences- \$300 / plaque
- * Environmental Sciences Awards with CACIWC --- 1st Place MS - \$300, Trophy, CACIWC gifts
- * Sustainable Resources and Practices Awards --- 1st Place Middle School - \$500 Cash and Trophy
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology 7th grade- \$200 & trophy
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF
- * Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"



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Hartford Sport and Medical Sciences Academy Marianne Vitali

5005 P7 Natural Plastic

Award 3 **Student(s)** Madison Lee **Grade 7** **Town** Rocky Hill

- * Connecticut Science & Engineering Fair Physical Sciences Awards --- 5th Place- Physical Sciences 7th Grade Individual - trophy
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- MS Phys. Sciences- \$300 / plaque
- * CASE Urban School Challenge Awards with Travelers --- 4th Place Middle School - Trophy, Medallion
- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & trophy
- * ASM Materials Education Foundation --- Certificate & \$50 gift card to Amazon given by CSEF
- * Unilever Trumbull R&D --- Shadow Day at Unilever Trumbull R&D Centre
- * Stanley Lessoff Award for Excellence In Analytical Technique --- \$100 Cash and Plaque
- * Fred Bailey Memorial Award --- \$250 for innovative research- Hartford Urban Middle School Project
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

Stratford St. Mark School Ms. Stacy Xanthos

2020 L7 Mud Power

Award 4 **Student(s)** Liam Millott **Grade 7** **Town** Milford

- * Sustainable Resources and Practices Awards --- Middle School Finalist - Medallion and Acrylic Trophy
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology 7th grade- trophy

New Haven Worthington Hooker School Mr. Jones

2056 L7 Plants: Natures stabilizer

Award 5 **Student(s)** Sadie Turner **Grade 7** **Town** New Haven

- * Alexion Biotechnology Awards --- 5th Place- Biotechnology 7th grade- trophy

Danbury St. Gregory the Great School Mrs. Fahey

1024 LT Let's Go Bananas!
The Effect Of Ripeness On Banana DNA Extraction

Award m **Student(s)** Zachary Meyerson **Grade 7** **Town** Danbury
Dionie Smith **Grade 7** **Town** Danbury

- * Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion & Acrylic Award
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion & Acrylic Award
- * Connecticut Science Supervisors Association --- \$125 for a middle school project



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Danbury St. Joseph School Jennifer Reilly
 1032 LT Preventing Bacteria Growth in Food
Award m **Student(s)** Matthew Riggs **Grade 7** **Town** Danbury
 Steven Soto **Grade 7** **Town** Danbury

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion & Acrylic Award
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF
- * Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to dinner
- * Sister Mary Christine Life Sciences Award --- \$150 and plaque for excellence in the life sciences by a catholic middle school project

Danbury Westside Middle School Academy Mr. Jonathan Neuhausel
 2049 L7 Effect of Watering Green Vegetable Plants With Chlorophyll-Rich Solutions to Increase Overall Chlorophyll Content
Award m **Student(s)** Benjamin Laham **Grade 7** **Town** Danbury

- * CASE Urban School Challenge Awards with Travelers --- 5th Place Middle School - Trophy, Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion & Acrylic Award

North Haven North Haven Middle School Susan Jasinski
 2033 L7 Developing a low-cost Green Algae Photobioreactor
Award m **Student(s)** Luke Barrett **Grade 7** **Town** North Haven

- * Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion & Acrylic Award
- * American Meteorological Society --- Certificate & \$50 Amazon gift card given by CSEF
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"



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[Proj#] [FCat] [Project Title]

8th Grade

Hebron RHAM Middle School Bob Clarke

2522 L8 Computer simulation if segregating students by classroom during lunch time during a viral outbreak will reduce the length of the viral outbreak and the number of students infected.

Award 1 **Student(s)** Isabelle Benson Clarke **Grade** 8 **Town** Marlborough

- * 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 --- 3rd Place- MS Life Sciences- \$150 / plaque
- * Xerox Computer Science Awards --- 3rd Place Middle School- \$100, Trophy, Medallion
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$500 & trophy and Invitation Compete in Broadcom MASTERS
- * Leask/Francoeur Family Awards --- 1st Place Middle School- For innovation electrical engineering or computer science - \$200 cash

Danbury Westside Middle School Academy Jonathan Neuhausel

1023 LT Mutagenesis in Bacteriophage Phi X174 to Induce a Target Host of Escherichia Vulneris

Award 2 **Student(s)** Sarah Johnson **Grade** 8 **Town** Danbury
Anjeli Joseph **Grade** 8 **Town** Danbury

- * Pfizer Life Sciences Awards --- 2nd Place- Life Sciences MS Team- \$100 each & trophy and Invite Compete Broadcom MASTERS
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology 8th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS

Orange Amity Reg Middle School, Orange Campus Mr. Foley/Dahn

5504 P8 Non-Newtonian Fluid Headgear to Prevent or Reduce Concussions

Award 3 **Student(s)** Henry Westgard **Grade** 8 **Town** Orange

- * Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion and acrylic award
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology 8th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS
- * American Society of Safety Engineers, CT Valley Chapter --- \$100 grade 7-8 project

Plantsville J.F. Kennedy Middle School Mrs.Pepin

2513 L8 Less is More: A test of minimal amount of water to grow a crop

Award 4 **Student(s)** Matthew Maciejewski **Grade** 8 **Town** Southington

- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology 8th grade- trophy and Invitation Compete in Broadcom MASTERS



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Danbury St. Joseph School Jennifer Reilly

2538 L8 Influence of Climate Change on Lobster Population in Buzzards Bay Massachusetts: Implications for Long Island Sound

Award 5 **Student(s)** Bradley Kerr **Grade** 8 **Town** Danbury

- * Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 8th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- * Environmental Sciences Awards with CACIWC --- 2nd Place MS- \$200, Trophy, CACIWC gifts
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology 8th grade- trophy
- * American Meteorological Society --- Certificate & \$50 Amazon gift card given by CSEF
- * Yale Peabody Museum --- One-Year Family Membership to the Yale Peabody Museum
- * Southeastern New England Marine Educators --- \$100 award and membership in SENEME - 1st Place Junior & T-Shirt
- * Project Oceanology --- Individual - Book + 2 tickets, First Place Junior, check for \$100, t-shirt
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, air pollution related
- * Greenwich Shellfish Commission Marine Ecology Awards --- Middle School Award for Excellence in Marine Ecology Award- Ocean Camp at Project Oceanology

Avon Talcott Mountain Academy Jessica Lodwick

2510 L8 Utilizing Microbes And Chlorella Vulgaris Algae To Construct An Eco-Friendly Microbial Fuel Cell

Award m **Student(s)** Yusuf Zaidi **Grade** 8 **Town** Avon

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award
- * Connecticut Invention Convention "Next Step Inventors" --- \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

Bethany Amity Reg Middle School, Bethany Campus Mr. Berean

4005 PT Musical Hands; Prosthetic Components to Assist Disabled Musicians

Award m **Student(s)** Olivia Gross **Grade** 8 **Town** Woodbridge
Ruth Berganross **Grade** 8 **Town** Woodbridge

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award

Danbury St. Gregory the Great School Christine Fahey

2504 L8 Celling Power

Award m **Student(s)** George Hyland **Grade** 8 **Town** New Fairfield

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award

Danbury St. Joseph School Jennifer Reilly

1015 LT The effect of x-ray radiation on the reproduction of Fruit Flies.

Award m **Student(s)** Patrick Iannetta **Grade** 8 **Town** Danbury
James O'Keefe **Grade** 8 **Town** Danbury

- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$50 gift card to Amazon given by CSEF



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Hamden Hamden Middle School Michelle DeLucia
 2542 L8 Effect of Pollutants on Aquatic Life
Award m **Student(s)** Ella Bradford **Grade** 8 **Town** Hamden

* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion & Acrylic Award
 * NASA EARTH System Science Award --- Certificate and \$50 gift card given by CSEF



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High School

Greenwich Greenwich High School Mr. Andrew Bramante

3029 LS Development of a Portable, Tattoo-Based Biosensor for the Non-Invasive, Low-Cost Diagnosis of Atherosclerosis via Iontophoresis of Macrophage-Targeting Silver Nanoparticles

Award 1 Student(s) William Yin Grade 11 Town Riverside

- * Alexion Biotechnology Awards --- 1st Place- Biotechnology Senior High- Trip to compete at Intel ISEF, \$1000 & plaque,
- * Biophysical Society --- Biophysics Award- \$100

Woodbridge Amity Regional High School Deborah Day

3066 LS Developing a Novel Progranulin-Derived Biologic for Gaucher disease

Award 2 Student(s) Helen Liu Grade 12 Town Orange

- * Pfizer Life Sciences Awards --- 3rd Place- Life Sciences Senior High- \$200 & Plaque
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology Senior High- \$500 & plaque
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Microbiology

Hamden Hamden High School Mr. Martins

3089 LS CRISPR Based Gene Editing Confers Resistance to Human Immunodeficiency Virus (HIV)

Award 3 Student(s) Aakshi Agarwal Grade 11 Town Hamden

- * Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High- \$500 & Plaque, Trip to compete at Intel ISEF
- * H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Life Sci. Senior 1st HS- \$1,000, Solid Silver Medal of Excellence, invite to CASE Annual Mtg
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology Senior High- \$300 & plaque

Windsor Academy of Aerospace and Engineering Dr. Lili Aramli

3042 LS An Electronic Neural Model of the Patellar Reflex Arc

Award 4 Student(s) Joshua Snyder Grade 11 Town Ivoryton

- * CASE Urban School Challenge Awards with Travelers --- 2nd Place High School - \$400 and Plaque, Medallion
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology Senior High- \$200 & plaque
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * John B. Trevor Award in Electrical Engineering --- \$500 cash award for an innovative electronic or electrical project

Greenwich Greenwich High School Andrew Bramante

3110 LS Oral delivery of insulin therapy via low cost, pH sensitive hydrogels

Award 5 Student(s) Michelle Xiong Grade 10 Town Riverside

- * Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- \$100 & plaque



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 [Proj#] [FCat] [Project Title]

Greenwich Greenwich High School Andy Bramante
 3085 LS Delivery of Docetaxel via a Modified PEGylated Graphene Oxide Carrier to Inhibit Growth of Prostate Cancer Stem Cells

Award m **Student(s)** Henry Dowling **Grade** 11 **Town** Riverside

* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award

Greenwich Greenwich High School Andrew Bramante
 3008 LS Investigating the Proteolytic Effect of Serine Protease Against Staphylococcus Aureus Biofilm Formation on Glass and Stainless Steel Surface Chips

Award m **Student(s)** Takema Kajita **Grade** 11 **Town** Cos Cob

* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
 * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award

Greenwich Greenwich High School Bramante
 3002 LS The Optimization of Nanoparticle-based Drug Delivery of Melittin in A Selective, Biocompatible Method to Target HIV Structural Antigen p24

Award m **Student(s)** Sanju Sathish **Grade** 11 **Town** Greenwich

* Pfizer Life Sciences Awards --- 2nd Place- Life Sciences Senior High- \$300 & Plaque, Trip to compete at Intel ISEF
 * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award

Greenwich Greenwich High School Andrew Bramante
 3081 LS The Effect Of Common Cold and Flu Medications on Gut Bacteria

Award m **Student(s)** Rahul Subramaniam **Grade** 9 **Town** Cos Cob

* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award

Greenwich Greenwich High School Andrew Bramante
 3012 LS Selective Improvement in Anti-Cancer Drug Sensitivity via D-Glucosamine Inhibition of STAT3 Oncogenic Expression

Award m **Student(s)** Madeleine Zhou **Grade** 11 **Town** Old Greenwich

* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
 * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award

Woodbridge Amity Regional High School Deborah Day
 3003 LS Polymorphism in Mertk associated with Multiple Sclerosis

Award m **Student(s)** Agrani Dixit **Grade** 10 **Town** Woodbridge

* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion & Acrylic Award