



Connecticut Science & Engineering Fair

Quinnipiac University

March 11 - 16, 2019

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Final Judging Results

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 Trophy Winners = 1, 2, ...
 Medalists = m
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Alexion Biotechnology Awards

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

7th Grade

Greenwich Greenwich Catholic School Carol Ann Lutz

1023 LT Breathe Better

Award 1 **Student(s)** William Carragher **Grade 7 Town** Stamford
 Joseph Pizzurro **Grade 7 Town** Stamford
 Ryan McIntire **Grade 7 Town** Darien

- * The Jackson Laboratory Life Sciences Awards --- 1st Place- Life Sciences MS Team- \$100 each & trophy and Invite to Compete Broadcom MASTERS
- * Future Sustainability Awards --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 7th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS

New Haven Betsy Ross Arts Magnet School Ms Macdonald

2008 L7 Salty Plants

Award 2 **Student(s)** Julia Murphy **Grade 7 Town** Stratford

- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 4th Place Middle School - Trophy, Medallion
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology 7th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS

Greens Farms Greens Farms Academy Ms. Modupe Oshin

5003 P7 Mobility Assistance Device for the Visually Impaired

Award 3 **Student(s)** Chad Ruggiero **Grade 7 Town** Greenwich, CT

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 7th Grade - CSF Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & trophy and Invitation Compete in Broadcom MASTERS
- * Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash

West Hartford Bristow Middle School Janice LaVangie

5012 P7 A low-cost and efficient way to harvest biomechanical energy: Generating electricity from people during daily activities

Award 4 **Student(s)** Angela Zhang **Grade 7 Town** West Hartford

- * Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology 7th grade- trophy and Invitation Compete in Broadcom MASTERS
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2019 Invention Convention, May 4



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Hamden Hamden Hall Country Day School Dr. Gasparro

2019 L7 Does Dog Saliva Kill Germs & What Else Might?

Award 5 **Student(s)** Lorraine Hillgen-Santa **Grade** 7 **Town** Stratford

- * The Jackson Laboratory Life Sciences Awards --- 3rd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- Middle School- \$200 / trophy
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology 7th grade- trophy
- * Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School Life Sciences

Avon Talcott Mountain Academy John Lombardo

5028 P7 The Vaccinator

Award m **Student(s)** Zachary Starr **Grade** 7 **Town** Avon

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

Brookfield Saint Joseph Catholic Academy Mrs. Dimon

2003 L7 The Effect of Ocean Acidification on Crepidula Fornicata

Award m **Student(s)** Abigail Cristaudo **Grade** 7 **Town** Brookfield CT

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

Danbury Westside Middle School Academy Jonathan Neuhausel

2024 L7 Molecular Health Indices of the Kalmia Latifolia

Award m **Student(s)** Maria Eduarda Sousa Lopes **Grade** 7 **Town** Danbury

- * The Jackson Laboratory 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
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- * Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Life Science
- * Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash

Greens Farms Greens Farms Academy Modupe Oshin

5008 P7 PediGenerator: Turning Steps Into Energy Using PiezoElectric Generators to harness, convert and store the energy needed to charge a mobile device

Award m **Student(s)** Tolani Oshin **Grade** 7 **Town** West Haven

- * Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion
- * 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



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Pawcatuck St. Michael School Anna-Helene Grossomanides

2007 L7 The Articulated Hand

Award m **Student(s)** Lauren Vossler **Grade** 7 **Town** Pawcatuck

- * The Jackson Laboratory Life Sciences Awards --- 5rd Place- Life Sciences 7th grade- trophy
- * Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

8th Grade

Wilton Middlebrook Middle School Mrs. Garcia

5502 P8 Alternative Household Method to Extinguish Fires

Award 1 **Student(s)** Keerthi Vijay **Grade** 8 **Town** Wilton

- * Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & trophy, invite to compete Broadcom MASTERS
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$500 & trophy and Invitation Compete in Broadcom MASTERS
- * American Society of Safety Professionals, CT Valley Chapter --- \$100 grade 7-8 project
- * Jon Stone Memorial Award --- \$100 cash for Innovative Engineering

Danbury St. Gregory the Great School Mrs. Fahey

2518 L8 ONE MAN'S TRASH IS ANOTHER MAN'S ENERGY

Award 2 **Student(s)** Thomas Fanelli **Grade** 8 **Town** Danbury

- * The Jackson Laboratory Life Sciences Awards --- 1st Place- Life Sciences 8th grade- \$300 & trophy and Invite to Compete Broadcom MASTERS
- * Alternative/Renewable Energy Awards --- Middle School Finalist - Medallion
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Life Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * Alexion Biotechnology Awards --- 2nd Place- Biotechnology 8th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS
- * Sister Mary Christine Life Sciences Award --- \$100 for excellence in the life sciences by a catholic middle school project
- * Frank J. Link Family Award for Energy Related Research --- Frank J. Link Award for Energy Related Research - \$50



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 [Proj#] [FCat] [Project Title]

Windsor Academy of Aerospace and Engineering - MS Dr. Bellinger
 4028 PT Do Contaminants Effect the Strength of Concrete at Construction Sites?
 Award 3 Student(s) Justin Ho Grade 8 Town Suffield
 Nicholas Sattan Grade 8 Town Suffield

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- Middle School Finalist - Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Alexion Biotechnology Awards --- 3rd Place- Biotechnology 8th grade- \$200 & trophy and Invitation Compete in Broadcom MASTERS
- * ASM Materials Education Foundation --- Certificate & \$25 gift card given by CSEF
- * Garg Consulting Services Award for Excellence in Construction Engineering --- \$250 cash and plaque

Groton Sacred Heart School Dr. Juan Pacheco
 5523 P8 Building a Better Hearing Aid Using Noise Cancellation
 Award 4 Student(s) Payton Noe Grade 8 Town East Lyme

- * 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
- * Applied Technology Awards --- 1st Place Middle School - \$300 and Trophy, Medallion
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology 8th grade- trophy and Invitation Compete in Broadcom MASTERS
- * American Society of Safety Professionals, CT Valley Chapter --- \$100 grade 7-8 project
- * IEEE, Connecticut Section --- \$250 Honors Award -Junior
- * Connecticut Academy of Audiology --- \$200 Award HS- For Excellence in Audiology and Acoustics, oport. to shadow an audiologist
- * Broadcom MASTERS --- The Lemelson Early Inventor Prize
- * Zepke Awards --- \$100 - For the Best Use of Electronic Circuitry- Middle School

Bethany Amity Middle School - Bethany Kevin Berean
 2528 L8 Purifying Grey Water Using a Constructed Wetland
 Award 5 Student(s) Nell Grant Grade 8 Town Woodbridge

- * Environmental Sciences Awards with CACIWC --- 1st Place MS - \$300, Trophy, CACIWC gifts
- * Future Sustainability Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology 8th grade- trophy
- * Southeastern New England Marine Educators (SENEME) --- \$100 award and membership in SENEME - 1st Place Junior & T-Shirt
- * The Karen J. Howell Middle School Award for "Learning and Serving"
 --- The Karen J. Howell Middle School Award for "Learning and Serving" - \$1000



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Avon Talcott Mountain Academy Brigette Zacharczenko
 2530 L8 Survey of Common Types of Cyanobacteria and its Toxins Found in the Recreational Areas of CT
 Award m Student(s) **Anishka Perera** Grade 8 Town Torrington

- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- * American Society of Safety Professionals, CT Valley Chapter --- \$100 grade 7-8 project
- * Schoepfer Award for Excellence in Local Aquatic Science --- For excellence in a local water quality study, \$100 cash

Bethany Amity Middle School - Bethany Kevin Berean
 4025 PT Artificial Pancreas to Regulate Blood Sugar Levels
 Award m Student(s) **Anchal Bahel** Grade 8 Town Woodbridge
Nina Carmeli Grade 8 Town Woodbridge

- * Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * ISA - International Society for Automation - Ct. Valley Section --- 1st - \$125 award

Danbury St. Gregory the Great School Christine Fahey
 5517 P8 Testing Different Nano-Particle Inks as Electrodes in a Sunlight-Seeking. Printed, Bio-Photovoltaic System
 Award m Student(s) **Maximilien Coisman** Grade 8 Town Danbury

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- * Computer Science Awards --- Middle School Finalist - Medallion
- * Alternative/Renewable Energy Awards --- 2nd Place Middle School - \$200 Cash and Trophy
- * Collins Aerospace Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF
- * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, high school, \$100 cash award

Trumbull Christian Heritage School Daniel Cote
 2529 L8 Use of Bioluminescent Dinoflagellates to Detect Water Contaminants
 Award m Student(s) **Samuel Tsao** Grade 8 Town OLD GREENWICH

- * The Jackson Laboratory Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- * TurnKey Compliance Solutions Environmental Awards --- \$200 Cash Award Middle School- For excellence in environmental sciences



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Westport Bedford Middle School NA
 2511 L8 Analysis of SNPs' association with early onset of Alzheimer's disease
Award m **Student(s)** Aalok Bhattacharya **Grade** 8 **Town** Westport

* The Jackson Laboratory Life Sciences Awards --- Finalist - Life Sciences 8th grade - CSF Medallion
 * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

High School

Greenwich Greenwich High School Andrew Bramante
 3030 LS Rapid, Smartphone-Based Diagnosis of Skin Melanoma through Differences in Tumor Cell Thermal Regulation Combined with Diffuse Spectroscopic Analysis
Award 1 **Student(s)** Melissa Woo **Grade** 11 **Town** Riverside

* The Jackson Laboratory Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 * Collins Aerospace Engineering Awards --- 2nd Place- Engineering Senior High- \$400 & plaque
 * Alexion Biotechnology Awards --- 1st Place- Biotechnology Senior High- \$1000 & plaque,
 * Lunch with a Patent Attorney --- Lunch with a Patent Attorney

Greenwich Greenwich High School Andrew Bramante
 3106 LS Rapid, Low-cost, Paper-based Immunosensor for Early Detection of Dengue Virus via Salivary Dengue NS1 Antigen
Award 2 **Student(s)** Matthew Jester **Grade** 11 **Town** Greenwich

* The Jackson Laboratory Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 * Alexion Biotechnology Awards --- 2nd Place- Biotechnology Senior High- \$500 & plaque
 * Society for In Vitro Biology --- Certificate and \$25 Amazon gift card given by CSEF

Greenwich Greenwich High School Andrew Bramante
 3088 LS Design of a Dual-Acting Riboflavin and UV-Enhanced Contact Lens Disinfecting System
Award 3 **Student(s)** Justin Speaker **Grade** 11 **Town** Greenwich

* Alexion Biotechnology Awards --- 3rd Place- Biotechnology Senior High- \$300 & plaque
 * Society for In Vitro Biology --- Certificate and \$25 Amazon gift card given by CSEF

Greenwich Greenwich High School Andrew Bramante
 3053 LS A Rapid, Solar-Powered, Portable Breast Cancer Diagnosis via Salivary CA15-3 Detection.
Award 4 **Student(s)** Halla Clausi **Grade** 10 **Town** Cos Cob

* The Jackson Laboratory Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
 * Future Sustainability Awards --- High School Finalist - Medallion
 * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
 * Alexion Biotechnology Awards --- 4th Place- Biotechnology Senior High- \$200 & plaque



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New Haven Wilbur Cross High School Nick Farrell

3052 LS Developing a Functional Tracheal Replacement Graft: Studying the Effects of Graft Stiffness on Host Response

Award 5 Student(s) Sophie Edelstein Grade 12 Town New Haven

- * The Jackson Laboratory Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 2nd Place High School - \$400 and Plaque, Medallion
- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- \$100 & plaque
- * Otero Family Award --- The Otero Family Award; \$200 cash
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Biochemistry
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2019 Invention Convention, May 4

Glastonbury Glastonbury High School Diane Pintavalle

3040 LS Designing a Metal Organic Framework-Nanocapsule for delivering hydrophilic drug cargo

Award m Student(s) Cassandra George Grade 12 Town Glastonbury

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

Greenwich Greenwich High School Andrew Bramante

3093 LS "Magnetically-Positioned, Lipase-Induced Degradation of Arterial Plaques with Simultaneous Smartphone Detection of Post-Dissolution Products."

Award m Student(s) Hiba Hussain Grade 11 Town Old Greenwich CT

- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- * Connecticut Association for the Gifted --- Leonardo Davinci Award 9-12 Grade \$50 Gift Certificate
- * University of Hartford --- University of Hartford Scholarship- For Excellence in Engineering, Science or Mathematics \$26,000

Greenwich Greenwich High School Andrew Bramante

3058 LS Design of Melittin Encapsulated PLGA Nanoparticles that Cross the Blood-Brain-Barrier to Target (Lipid Simulated) Cancer Cells

Award m Student(s) Autumn Kim Grade 10 Town Greenwich

- * Collins Aerospace Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

Hamden Sacred Heart Academy Dr. Sibani Sengupta

3110 LS Exploring the World of Healing Herbs: Comparison of Antibacterial Properties in Coriandem Sativum, Ocimum Basilicum and Rosmarinus Officinalis

Award m Student(s) Mehr Chhatre Grade 9 Town Hamden

- * 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
- * Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to Awards Night Dinner with guest
- * Sister Mary Christine Life Sciences Award --- \$150 for excellence in the life sciences by a catholic high school project
- * University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Microbiology



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Wallingford Choate Rosemary Hall Ben Small

3090 LS Investigating Action Potentials of *L. terrestris* for Pharmacological Effects

Award m **Student(s)** Hyunseo Kim

Grade 11 **Town** Wallingford

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