



#CSEF2017

Embargoed Until 1 pm on Saturday, March 18

Connecticut Science & Engineering Fair Media Advisory

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March 18, 2017

Connecticut Science & Engineering Fair (CSEF) Awards Top Prizes to Students From Greenwich, Hamden, and New Haven

HAMDEN, Conn., Mar. 18, 2017 – Students from across the Nutmeg state won awards at the Connecticut Science & Engineering Fair (CSEF) during Saturday's ceremony at Quinnipiac University. The individual high school physical (PepsiCo) and life science (Pfizer) winners, as well as the CASE Urban School Challenge, UTAS Engineering and Alexion Biotechnology winners, listed below, will all go to the prestigious [Intel International Science & Engineering Fair](#), to be held this May in Los Angeles, California. However this year an exciting finalist situation arose for the prestigious Intel International Science & Engineering Fair representation in the life sciences engineering and CASE Urban School Challenged categories. 1st place Shobhita Sunaram had already won a trip to the ISEF fair earlier in the year from the CT-STEM fair. 2nd place Sophie Edelstein also won a trip to ISEF from the Engineering category and 3rd Place Maya Geradi won a trip to ISEF from the CASE Urban School Challenge. Therefore, representing Life Sciences this year at ISEF will be 4th place Luca Barcelo and 5th Place Rahul Subramaniam both from Greenwich High School.

Other winners from CSEF will represent Connecticut and compete for millions more in cash and scholarships at competitions including the International Sustainable World Engineering, Energy & Environment Project Olympiad ([ISWEEEP](#)), [GENIUS Olympiad](#), and the [Broadcom MASTERS](#) competition.

Click [HERE](#) for all Fair results, including Special Award winners. All students listed below live in the same town as their school, unless otherwise noted.

ISEF Winners (Click [Here](#) for complete list with project titles)

CSEF PepsiCo Physical Science

Ethan Novek, Greenwich High School
Eunji Lee, Sacred Heart Academy (Hamden)

CSEF Pfizer Life Sciences

Luca Barcelo, Greenwich High School
Rahul Subramaniam, Greenwich High School

CSEF Alexion Biotechnology

Michelle Xiong, Greenwich High School

CSEF CASE Urban School Challenge

Maya Geradi, Wilbur Cross High School (New Haven)

CSEF UTAS Engineering

Sophie Edelstein, Wilbur Cross High School (New Haven)

Category Winners

PepsiCo Physical Science Winners

Grades 9-12

1st Place: Ethan Novek, Greenwich High School
Novel Low-Temperature Carbon Capture Using Aqueous Ammonia and Organic Solvents

2nd Place: Eunji Lee, Sacred Heart Academy (Hamden)
Computer-Aided Bleeding Detection in Wireless Capsule Endoscopy Images Using Deep Convolutional Neural Networks

Grades 9-12 Team

1st Place: Chris Rinaldi, Vishakh Talanki, Jean Pasato, Academy of Aerospace and Engineering (Windsor)
Effect of Aerodynamic Leaf Design on Electrical Power Generation via a Network of Vertically Aligned Micro Wind Turbines

Grade 8

1st Place: John Oei, Oei Homeschool (Hebron)
Developing a Prototype Atmospheric Water Generator System as a Clean, Safe and Sustainable Water Source

Grade 7

1st Place: Patrick McHugh, Greenwich Catholic School (Stamford)
Mass Maglev Manufacturing

Pfizer Life Science Winners

Grades 9-12

1st Place: Shobhita Sundrama, Greenwich High School

Detection of Premalignant Pancreatic Cancer via Computational Analysis of Serum Proteomic Profiles

2nd Place: Sophie Edelstein, Wilbur Cross High School (New Haven)

Formulation of Gelatin-Hyaluronic Acid Blend Cross-Linked Gels for Potential Tissue Applications

Grades 9-12 Team

1st Place: Thacher Scannell and Avi Mukherjee of Brunswick School (Stamford)

Human fingerprints and Gecko Setae: A Fusion of configurations to create a super-grip, non-slip surface

Grade 8

1st Place: Anika Bhagavatula of Middlebrook Middle School (Wilton)

A Novel Method for Oil Spill Cleanup Using Biomass

Grade 7

1st Place: Grace Flynn of St. Timothy Middle School (West Harford)

Green Tea: A Simple Solution for a Bananas Problem?

Alexion Biotechnology Winners

Grades 9-12

1st Place: Michelle Xiong, Greenwich High School

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

2nd Place: Sophie Edelstein, Wilbur Cross High School (New Haven)

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

Grade 8

1st Place: Lasyapriya Josyula, Westside Middle School Academy (Danbury)

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

Grade 7

1st Place: Khushi Parikh, Westside Middle School Academy (Danbury)

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

CASE Urban School Challenge supported jointly by Aetna and IBM Winners

Grades 9-12

1st Place: Maya Geradi, Wilbur Cross High School (New Haven)

A study of circadian genetics and abiotic stress towards sustainable agriculture

Grade 8

1st Place: Madison Lee, Sport and Medical Sciences Academy (Hartford)

Natural Plastic: Milk Plastic Biodegradation vs. Commercial Plastic Degradation

United Technologies Aerospace Systems- Engineering Winners

Grades 9-12

1st Place: Sophie Edelstein, Wilbur Cross High School (New Haven)

*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*

2nd Place: Lauren Low, Engineering Science University Magnet School (New Haven)

A Novel Rapid Diagnostic Test for Zika Virus NS1 Protein using Nanoribbon Microfluidics

Grade 8

1st Place: Madison Lee, Sport and Medical Sciences Academy (Hartford)

Natural Plastic: Milk Plastic Biodegradation vs. Commercial Plastic Degradation

Grade 7

1st Place: Theodore Zhang, King Phillip Middle School (West Hartford)

Natural Slip Hazard Alarm Robot-H2OhNobot

The Connecticut Science & Engineering Fair is supported by the Connecticut business and industry community and is administered entirely by volunteers.

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