



# Connecticut Science & Engineering Fair

## Quinnipiac University

### March 15 - 19, 2016

*These judging results are unaudited by the fair's Database Committee. The CSEF reserves the right to correct the listings.*

## Final Judging Results

### Award Legend

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

## Petit Family Foundation Awards

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

## High School - Life Sciences

**New Haven** Wilbur Cross High School Caroline Dahm High School - Life Sciences  
3045 LS Polyetherketoneketone (PEKK) Surgical Implant: An alternative cure for Internal Coxa Saltans in Female Adolescents  
**Award** 1 **Student(s)** Sophie Edelstein **Grade** 9 **Town** New Haven

- \* Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- HS Life Sciences- \$500 / plaque
- \* CSEF Board of Directors Award to Compete at International Science & Engineering Fair --- CT Science & Engineering Fair Board of Directors Award to Compete at International Science & Engineering Fair
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate
- \* John S. Kendall Memorial Awards --- \$500 John S. Kendall Award for Excellence In Mechanical Engineering - High School

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle High School - Life Sciences  
3114 LS Analyzing the use of Moon Jellyfish, Aurelia aurita, Collagen as a Viable Alternative in Medical Applications  
**Award** 2 **Student(s)** Kylie Fawcett **Grade** 12 **Town** Fairfield

- \* Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- HS Life Sciences- \$250 / plaque
- \* CASE Urban School Challenge Awards with Travelers --- 4th Place High School - Plaque, Medallion

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle High School - Life Sciences  
3086 LS Analysis of Honey Derivatives as a Functional Tumor Growth Suppressant  
**Award** 3 **Student(s)** Katharine Morris **Grade** 12 **Town** Bridgeport

- \* Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion & Acrylic Award
- \* Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- HS Life Sciences- \$150 / plaque
- \* Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Biochemistry

**Greenwich** Greenwich High School Andrew Bramante High School - Life Sciences  
3033 LS Open-Wound Administration of Coagulant and Antibacterial Therapeutics via CaCO3 Microparticle Self-propulsion  
**Award** m **Student(s)** Michelle Woo **Grade** 10 **Town** Riverside

- \* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist- Life Sciences - Medallion and Acrylic Award
- \* Energize CT/eesmarts Future Sustainability Awards --- High School Finalist - Medallion and Acrylic Award
- \* UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering



# Connecticut Science & Engineering Fair

## Quinnipiac University

March 15 - 19, 2016

*These judging results are unaudited by the fair's Database Committee. The CSEF reserves the right to correct the listings.*

### Final Judging Results

#### Award Legend

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

## Petit Family Foundation Awards

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

### High School - Physical

**Tolland** Stonewall Academy Donald Peck High School - Physical Sciences  
6085 PS Designing an Airfoil Spinner to Improve the Efficiency of Horizontal Axis Wind Turbines

**Award** 1 **Student(s)** Amelia Peck **Grade** 10 **Town** Tolland

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- \* People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion & Acrylic Award
- \* Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- HS Phys. Sciences- \$500 / plaque
- \* Alternative/Renewable Energy Awards --- 1st Place High School - \$500 Cash and Plaque, Trip to Compete I-SWEEEEEP, Houston
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, Book, and Annual Report
- \* Mu Alpha Theta --- Certificate, \$50 gift card to Amazon given by CSEF
- \* Constellation, an Exelon Company --- 1st: \$200.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy
- \* MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, high school, \$100 cash award
- \* Arthur Mensing Award --- \$1000 cash award for excellence in the physical sciences
- \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Energy & Transportation

**Greenwich** Greenwich High School Andrew Bramante High School - Physical Sciences  
6015 PS Self-Sustaining Biosynthesis of Methane from CO2 via a Microbial & Electrochemical Hybrid System

**Award** 2 **Student(s)** Devyn Zaminski **Grade** 11 **Town** Greenwich

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- 4th Place- Physical Sciences Senior High Individual - Plaque
- \* Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- HS Phys. Sciences- \$250 / plaque
- \* UTC Aerospace Systems Awards for Excellence in Engineering --- \$1,000 cash and plaque for excellence in engineering
- \* ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2016 Sustainability Solutions Festival and \$50 Gift Card
- \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift certificate
- \* Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related

**Greenwich** Greenwich High School Andrew Bramante High School - Physical Sciences  
6057 PS Water Droplet Repulsion and Reduced Icing Tendencies on Superhydrophobic Surfaces

**Award** 3 **Student(s)** Haley Stober **Grade** 10 **Town** Old Greenwich

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion & Acrylic Award
- \* Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- HS Phys. Sciences- \$150 / plaque
- \* ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2016 Sustainability Solutions Festival and \$50 Gift Card



# Connecticut Science & Engineering Fair

## Quinnipiac University

March 15 - 19, 2016

*These judging results are unaudited by the fair's Database Committee. The CSEF reserves the right to correct the listings.*

### Final Judging Results

#### Award Legend

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

### Petit Family Foundation Awards

[SchTown] [School] [Teacher]

[Proj#] [FCat] [Project Title]

---

**Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle High School - Physical Sciences  
6008 PS Observing the Deposition Process of Synthesized of Graphene Oxide and Iron Oxide to Establish a Stable Magnetic Field

**Award** m **Student(s)** Stephanie Kreidler **Grade** 12 **Town** Shelton

\* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist- Physical Sciences - Medallion and Acrylic Award

\* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Chemistry

---



# Connecticut Science & Engineering Fair

## Quinnipiac University

### March 15 - 19, 2016

These judging results are unaudited by the fair's Database Committee. The CSEF reserves the right to correct the listings.

## Final Judging Results

### Award Legend

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

## Petit Family Foundation Awards

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

### Middle School - Life Sciences

**Wilton** Middlebrook Middle School Paige Randall Middle School - Life Sciences  
2065 L7 Banana Peels: Second Life as a Water Purifier

**Award** 1 **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"

**Danbury** Westside Middle School Academy Jonathan Neuhausel Middle School - Life Sciences  
2005 L7 Study of Various Starch-based Biopolymers

**Award** 2 **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

**Hebron** RHAM Middle School Bob Clarke Middle School - Life Sciences  
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** 3 **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



# Connecticut Science & Engineering Fair

## Quinnipiac University

### March 15 - 19, 2016

*These judging results are unaudited by the fair's Database Committee. The CSEF reserves the right to correct the listings.*

### Final Judging Results

**Award Legend**  
 Trophy Winners = 1, 2, ...  
 Medalists = m  
 Winners = w

### Petit Family Foundation Awards

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

**Newtown** St. Rose of Lima School Mrs. Dimon Middle School - Life Sciences  
 2013 L7 the effect of different fertilizers on grass

**Award** m **Student(s)** Madelaine Simms **Grade** 7 **Town** Newtown

\* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist- Life Sciences - Medallion and Acrylic Award

**Southington** J.A. DePaolo Middle School Ms. Shea Middle School - Life Sciences  
 2502 L8 Heavy Metal Adsorption Capability Of Pumice

**Award** m **Student(s)** Betul Agirman **Grade** 8 **Town** Southington

\* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist- Life Sciences - Medallion and Acrylic Award  
 \* Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion, Acrylic award

**Stratford** St. Mark School Mrs. Orendorf Middle School - Life Sciences  
 1019 LT Sugar Uncovered

**Award** m **Student(s)** Natalie Sciallo **Grade** 8 **Town** Stratford  
 Kelly DeRosa **Grade** 8 **Town** Stratford

\* Pfizer Life Sciences Awards --- Finalist - Life Sciences Middle School Team - CSF Medallion & Acrylic Award  
 \* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist- Life Sciences - Medallion and Acrylic Award  
 \* Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School Life Sciences



# Connecticut Science & Engineering Fair

## Quinnipiac University

### March 15 - 19, 2016

*These judging results are unaudited by the fair's Database Committee. The CSEF reserves the right to correct the listings.*

## Final Judging Results

### Award Legend

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

## Petit Family Foundation Awards

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

### Middle School - Physical

**Hartford** Sport and Medical Sciences Academy Marianne Vitali Middle School - Physical Sciences  
 5005 P7 Natural Plastic

**Award** 1 **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"

**Danbury** Westside Middle School Academy Jonathon Neuhausel Middle School - Physical Sciences  
 5561 P8 The effect that different ingredient ratios have on the mechanical strength of bioplastics.

**Award** 2 **Student(s)** Sanjana Shriram **Grade** 8 **Town** Danbury

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
- \* Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- MS Phys. Sciences- \$200 / plaque
- \* CASE Urban School Challenge Awards with Travelers --- Middle School Finalist - Medallion and acrylic award
- \* ASM Materials Education Foundation --- Certificate & \$50 gift card to Amazon given by CSEF
- \* Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related

**Bethany** Amity Reg Middle School, Bethany Campus Mr. Berean Middle School - Physical Sciences  
 5541 P8 The Eco-Charge

**Award** 3 **Student(s)** Sophia Wang **Grade** 8 **Town** Woodbridge

- \* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award
- \* Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- MS Phys. Sciences- \$150 / plaque
- \* Association for Women Geoscientists --- Certificate & \$50 gift card to Amazon given by CSEF





# Connecticut Science & Engineering Fair

## Quinnipiac University

### March 15 - 19, 2016

These judging results are unaudited by the fair's Database Committee. The CSEF reserves the right to correct the listings.

## Final Judging Results

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

### Petit Family Foundation Awards

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

**Bethany** Amity Reg Middle School, Bethany Campus Mr. Berean Middle School - Physical Sciences  
4029 PT Litter Bot  
Award **m** Student(s) **Tracy Lu** Grade 8 Town Woodbridge  
**Nicole Cohen** Grade 8 Town Woodbridge

\* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist- Physical Sciences - Medallion and Acrylic Award

**Bozrah** Fields Memorial School Evelyn Brown Middle School - Physical Sciences  
5531 P8 Using Solar Engine Circuits to Power Electrical Devices  
Award **m** Student(s) **Victoria Smith** Grade 8 Town Bozrah

\* Connecticut Science & Engineering Fair Physical Sciences Awards --- Finalist - Physical Sciences 8th Grade - CSF Medallion & Acrylic Award  
\* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist- Physical Sciences - Medallion and Acrylic Award  
\* Society of Women Engineers - Hartford Section --- Scientific Calculator

**New Haven** Engineering Science University Magnet School Mr. Rushworth Middle School - Physical Sciences  
5002 P7 Does Distance From a Nuclear Power Plant a Affect Plant Growth?  
Award **m** Student(s) **Eva Heaphy** Grade 7 Town New Haven

\* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist- Physical Sciences - Medallion and Acrylic Award  
\* Association for Women Geoscientists --- Certificate & \$50 gift card to Amazon given by CSEF  
\* Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School, Physical Sciences

**Newtown** St. Rose of Lima School Mrs. Dimon Middle School - Physical Sciences  
5534 P8 Construct and build a working turntable.  
Award **m** Student(s) **Marianella Salinas** Grade 8 Town Newtown

\* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist- Physical Sciences - Medallion and Acrylic Award