



Connecticut Science & Engineering Fair

Quinnipiac University

March 12 - 17, 2018

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

Final Judging Results

Environmental Sciences Awards with CACIWC

Award Legend

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

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

Middle School

2528 L8 Saving Crops from Cold Snaps – The Effect of Gamma-Aminobutyric Acid (GABA) on Freeze Tolerance in Wheatgrass

Award 1 Student(s) Grace Flynn Grade 8 Town West Hartford

- * Pfizer Life Sciences Awards --- 1st Place- Life Sciences 8th grade- \$300 & trophy and Invite to Compete Broadcom MASTERS
- * Environmental Sciences Awards with CACIWC --- 1st Place MS - \$300, Trophy, CACIWC gifts
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Life Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * Alexion Biotechnology Awards --- 4th Place- Biotechnology 8th grade- trophy and Invitation Compete in Broadcom MASTERS
- * The Karen J. Howell Middle School Award for "Learning and Serving"
 --- The Karen J. Howell Middle School Award for "Learning and Serving" - \$1000

5527 P8 Stormwater Pollution: The Effectiveness of Zeolites in Decreasing Levels of Nitrate in Runoff

Award 2 Student(s) Paloma Lenz Grade 8 Town Danbury

- * 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
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 2nd Place Middle School - \$200 and Trophy, Medallion
- * Environmental Sciences Awards with CACIWC --- 2nd Place MS- \$200, Trophy, CACIWC gifts
- * UTC Aerospace Systems Engineering Awards --- 2nd Place- Engineering MS- \$200 & trophy and Invitation Compete in Broadcom MASTERS
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 8th grade- \$500 & trophy and Invitation Compete in Broadcom MASTERS
- * Association for Women Geoscientists --- Certificate, \$25 gift card to Amazon given by CSEF, possible advance to further competition

5011 P7 From Biomass To Biogas

Award 3 Student(s) Matilda Petrnick Grade 7 Town Stratford

- * Lockheed Martin Physical Sciences Awards --- 5th Place- Physical Sciences 7th Grade Individual - trophy
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 4th Place Middle School - Trophy, Medallion
- * Environmental Sciences Awards with CACIWC --- 3rd Place MS- \$100, Trophy, CACIWC gifts
- * Energize CT/eesmarts Alternative/Renewable Energy Awards --- 1st Place Middle School - \$300 Cash and Trophy
- * Future Sustainability Awards - Eversource /energizeCT --- 3rd Place Middle School - \$100 Cash and Trophy
- * Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF
- * Meyerand Young Woman Scientist Awards --- \$300 cash - Middle School, Physical Sciences
- * Frank J. Link Family Award for Energy Related Research --- Frank J. Link Award for Energy Related Research - \$50



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2031 L7 To grow or not to grow

Award m **Student(s)** Savannah Guzman **Grade 7** **Town** Bridgeport

- * Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 7th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion

2537 L8 Transforming Trash Into Treasure: A Sustainable Approach To Oil Spill Cleanup

Award m **Student(s)** Kavin Kathir **Grade 8** **Town** Cheshire

- * Pfizer Life Sciences Awards --- 3rd Place- Life Sciences 8th grade- \$100 & trophy and Invite to Compete Broadcom MASTERS
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- 2nd Place Middle School - \$200 Cash and Trophy
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- * Ricoh Americas Corporation --- Certificate, \$25 Amazon gift card given by CSEF
- * National Oceanic and Atmospheric Administration --- Certificate and medallion, and \$25 Amazon gift card given by CSEF
- * Southeastern New England Marine Educators --- \$100 award and membership in SENEME - 1st Place Junior & T-Shirt
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Junior, Environmental Research, waste recycling related
- * TurnKey Compliance Solutions Environmental Awards --- \$200 Cash Award Middle School- For excellence in environmental sciences

2504 L8 A Study on Angiosperm Xylem Based Sucrose Filtration Systems

Award m **Student(s)** Vincent Trombetta **Grade 8** **Town** Danbury

- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 5th Place Middle School - Trophy, Medallion
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

5024 P7 Cure For The Blues: A green, low cost adsorbent for removal of dye from aqueous solutions

Award m **Student(s)** Anika Ahilan **Grade 7** **Town** Glastonbury

- * Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy, invite to compete Broadcom MASTERS
- * Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- Middle Schools- \$100 / trophy
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- * Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt, First Place Junior
- * Connecticut Science Supervisors Association --- \$125 for a middle school project
- * Jon Stone Memorial Award --- \$150 cash for Innovative Engineering



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2010 L7 Underwater Battle: The Effect of Pollution on Brine Shrimp
 Award m Student(s) Athena Brown Grade 7 Town New Haven

- * 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 --- Middle School Finalist - Medallion
- * CASE • PepsiCo Urban School Challenge Awards with IBM --- 3rd Place Middle School - \$100 and Trophy, Medallion
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- * Alexion Biotechnology Awards --- 1st Place- Biotechnology 7th grade- \$300 & trophy and Invitation Compete in Broadcom MASTERS
- * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp
- * Environmental / Energy Award- New Haven Public School Award --- \$100 Award for top environmental or alternative energy project from a New Haven public school

2521 L8 Design and Testing of a Chitin-based Filter for Bio-remediation of Nitrates
 Award m Student(s) Marguerite LaBanca Grade 8 Town Sandy Hook

- * Barnes Aerospace Applied Technology Awards --- Middle School Finalist - Medallion
- * Environmental Sciences Awards with CACIWC --- MS Finalist - CACIWC gifts, CSF Medallion
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- * Institute of Food Technologists, Nutmeg Section --- \$50 award + invitation to dinner

High School

6051 PS Magnetically-induced, Visual Detection of Trace Arsenic Contaminants in Water Using Fe₃O₄ Photonic Crystal Structures
 Award 1 Student(s) Raina Jain Grade 10 Town Greenwich

- * Lockheed Martin Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & Plaque, trip to compete at Intel ISEF
- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Environmental Sciences Awards with CACIWC --- 1st Place HS- \$500, Plaque, CACIWC gifts
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * GENIUS Olympiad --- GENIUS Olympiad Competition for 1st Place HS Environmental Project



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3096 LS Development of a Novel Copepod-Based Mosquito Ovitrap
 Award 2 Student(s) Sophie Wang Grade 12 Town Waterford

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- 2nd Place HS- \$200, Plaque, CACIWC gifts
- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- * J.A. Augustine Award --- \$100 for excellence in biology
- * Fox Pest Control Award for Environmental Management --- \$150 Cash for Excellence in Environmental Management
- * Yale Peabody Museum --- Family "six pack" of free passes to the Yale Peabody Museum

6098 PS Cost-Effective and Fully Recycled Filtration of Heavy Metals from Drinking Water Using Used Coffee Grounds Embedded in Discarded Polyurethane Sponges
 Award 3 Student(s) Verna Yin Grade 11 Town Cos Cob

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- High School \$500 / plaque
- * Environmental Sciences Awards with CACIWC --- 3rd Place HS- \$100, Plaque, CACIWC gifts
- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash
- * ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
- * 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 by CSEF, possible advance to further competition
- * Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to dinner
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * Southeastern New England Marine Educators --- \$100 award and membership in SENEME - 1st Place Senior & T-Shirt
- * University of Connecticut Academic Excellence Scholarship --- Academic Excellence Scholarship - \$6,500 a year for four academic years- (\$26,000 total)

6004 PS Investigation of Recycled Concrete Aggregate as a low-cost CO2 sequestration vehicle through Indirect Mineral Carbonation
 Award m Student(s) Jinkuk Hong Grade 12 Town Shelton

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion



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6074	PS	A Novel Heavy Metal Remediation Technique Utilizing a Photocatalyst Driven Graphene-Cupric Oxide Matrix
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Award m **Student(s)** Catherine Odendahl **Grade** 12 **Town** Trumbull

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card

6030	PS	The Analysis of a Biochar Containment Boom as a Mitigation Technique for Relic Pollutants after Marine Dredging
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Award m **Student(s)** Ethan Skuches **Grade** 12 **Town** Milford

- * CASE • PepsiCo Urban School Challenge Awards with IBM --- Senior High Finalist - Medallion
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * National Oceanic and Atmospheric Administration --- Certificate and medallion, and \$25 Amazon gift card given by CSEFF

3512	LST	Solar Powered Golf Cart
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Award m **Student(s)** Dylan Bonneau **Grade** 10 **Town** Thompson
 Aaron Breen **Grade** 10 **Town** Brooklyn
 Michael Page **Grade** 10 **Town** Brooklyn

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion

3016	LS	Finding and Comparing the Ethanol Yield of Connecticut Invasive Plant Species
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Award m **Student(s)** Grace McGonagle **Grade** 11 **Town** Southport

- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * Quinnipiac University Scholarships --- \$20,000, 4 year scholarship (\$5000 per year) to Quinnipiac University for HS Student & \$250 cash
- * University of Connecticut - Physics Department --- UCONN Early College Experience Program: Frontier in Science-Co-Op \$100 Gift Certificate

6503	PST	Utilization of Vertical Tidal Range to Generate and Store Electrical Current
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Award m **Student(s)** William George **Grade** 11 **Town** Greenwich
 Harold Barringer **Grade** 11 **Town** Greenwich

- * Barnes Aerospace Applied Technology Awards --- 1st Place High School - \$500 and Plaque, Medallion
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * IEEE, Connecticut Section --- \$100 Honorable Mention



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3049 LS Use of Regression Analysis to Predict Future Outbreaks of Malaria

Award **m** Student(s) **Jamison Meindl** Grade 10 Town Riverside

- * People's United Bank Mathematics Awards - with ATOMIC --- 3rd Place High School - Plaque, \$200 from People's United Bank
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * Computer Science Awards --- Senior High Finalist - Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- * Mu Alpha Theta --- Certificate, \$25 Amazon gift card given by CSEF
- * American Society for Quality - Thames Valley Section --- \$250 Cash Award
- * Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum

3064 LS Biomimetic Degradation of Persistent Pollutants Using Common Wax Worm Sakaiensis Bacteria

Award **m** Student(s) **Bennett Hawley** Grade 11 Town Cos Cob

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Alexion Biotechnology Awards --- 5th Place- Biotechnology Senior High- \$100 & 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 by CSEF, possible advance to further competition
- * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- * Mystic Aquarium - Sea Research Foundation --- \$100 and 4 Admission Tickets to Mystic Aquarium
- * University of Hartford --- University of Hartford Scholarship- For Excellence in Engineering, Science or Mathematics \$26,000
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related
- * University of Connecticut - Physics Department --- UCONN Early College Experience Program: Life Sciences - Co-Op \$100 Gift Certificate
- * Yale Peabody Museum --- Family "six pack" of free passes to the Yale Peabody Museum



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6033 PS Open-source, In-field Smartphone Detection and Mapping of Waterborne Diseases via Time-Based Spectroscopic Sensing with a New 3D Printable Optical Interface

Award m **Student(s)** Nicholas Liu **Grade** 11 **Town** Greenwich

- * Lockheed Martin Physical Sciences Awards --- 3rd Place- Physical Sciences Senior High Individual - \$200 & Plaque
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- * ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
- * The Goodwin-Niering Center for the Environment --- \$100 for "Excellence in Environmental Conservation Studies"
- * Robotics And Beyond Award for Excellence in Physics- High School and Engineering Design- Middle School --- High School- For Excellence in Physics- \$200 for for Robotics And Beyond STEM Design Academy in July
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2018 Invention Convention, April 28

6058 PS Remediation of Heavy Metal and Fertilizer-Runoff Contaminants using High Throughput, Silk Nanofiber Biomimetic Multilayer Membranes

Award m **Student(s)** Nicholas Woo **Grade** 11 **Town** Greenwich

- * Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- * ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
- * 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 by CSEF, possible advance to further competition
- * Project Oceanology --- Individual - 1 Ocean Camp slot + T-Shirt, First Place Senior

3005 LS Combating Food Deserts with Bean Urban Agriculture

Award m **Student(s)** Julianna Lee **Grade** 11 **Town** Windsor

- * Pfizer Life Sciences Awards --- Finalist - Life Science Senior High - CSF Medallion
- * Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- * Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- * ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
- * Connecticut Nurserymen's Foundation, Inc. --- \$200 Cash Award & paid registration to the CT Nursery and Landscape Summer Meeting