

Final Judging Results

Award Legend

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

Urban School Challenge Awards

[Teacher]

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

Middle School

Windsor Academy of Aerospace and Engineering Michelle Bellinger

4011 PT Using Piezoelectric Sensors to Harvest Energy from Automobile Tires and the Road Surface

Award 1 Student(s) Palaniappan Manikandan Grade 8 Town Ellington

Duke Clottey Grade 8 Town Hartford

- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 1st Place Middle School \$300 and Trophy, Medallion
- * EnergizeCT Alternative & Renewable Energy Awards --- 3rd Place Middle School \$100 Cash and Trophy
- * EnergizeCT Future Sustainability Awards --- 1st 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 Meeting
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * The Community Foundation for Greater Hew Haven's Milton Fisher Awards for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash
- * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 8th grader GENIUS Olympiad Competition with stipend (421)
- * Jon Chapitis Memorial Award --- Jon Chapitis Spirit of Innovation Award MS \$100
- * GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project

| Danbury 4012 | Westside Middle School Academy Nancy Barlow PT Building a Versatile Air Sensor That Can Detect PM10 & | PM2.5 in the Air | |
|-----------------|---------------------------------------------------------------------------------------------------------|------------------|------------------|
| Award | 2 Student(s) Sarvesh Ram Sankarnarayan | Grade 8 | Town Danbury |
| _ | Gabrielle Anderson | Grade 8 | Town Danbury |
| | Eleftherios Amperidis | Grade 8 | Town Danbury, Ct |

- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 2nd Place Middle School \$200 and Trophy, Medallion
- * Environmental Sciences Awards with Connecticut Association of Conservation and Inland Wetlands Commissions --- 3rd Place MS- \$100, Trophy
- * ISA International Society for Automation Ct. Valley Section --- 2nd \$75 award
- * The Community Foundation for Greater New Haven Ecology, Environmental, and Alternative Energy Research Prize --- Urban Public School Environmental / Energy Award \$250
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2024 Invention Convention, June 8

| Danbury | Wests | ide Middle School Academy | Nancy Barlow | | | |
|---------|-------|-------------------------------|---------------------------------|---------|--------------|--|
| 2518 | L8 | The Effect of Different Subst | rates on the Growth of Mycelium | | | |
| Award _ | 3 | Student(s) Milana Lenz | | Grade 8 | Town Danbury | |

- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 3rd Place Middle School \$100 and Trophy, Medallion
- * Alexion Biotechnology Awards --- Finalist Biotechnology 8th grade CSF Medallion



Final Judging Results

Award Legend

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

Urban School Challenge Awards

[Teacher]

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

 Danbury
 Westside Middle School Academy
 Nancy Barlow

 1008
 LT
 Air Purifier that Effectively Removes Air Toxins - PM 2.5 and Formaldehyde

 Award
 4
 Student(s)
 Arlis Arias-Paulino
 Grade 8
 Town
 Danbury

Sivayazhini SivasundarGrade 8Town DanburyKuhutan RoyGrade 8Town Danbury

- * Life Science Awards with support from Boehringer Ingelheim --- 2nd Place- Life Sciences MS Team- \$100 each & trophy
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --4th Place Middle School Trophy, Medallion
- * Alexion Biotechnology Awards --- 4th Place Biotechnology 8th grade- trophy

| Waterbury | ACES at Chase | Kelly Horan | | |
|-----------|----------------|----------------------------------------------|---------------------|----------------|
| 5005 | P7 What Design | n of Mesh Water Filtration Device Most Effec | ctively Removes Mic | roplastics? |
| Award | Student(s |) Jacob Godfrey | Grade 7 | Town Waterbury |

- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 5th Place Middle School Trophy, Medallion
- * Alexion Biotechnology Awards --- Finalist Biotechnology 7h grade CSF Medallion
- * U.S. Agency for International Development (USAID) --- Certificate and \$25 gift card given by CSEF
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * National Center for Inquiry Learning --- Daniel & Maggie Award for Imagination MS \$100
- * Aquarion Water Company --- 1st. \$150.00 Cash Grade 7-8 For Excellence in Water Quality or Environmental Management
- * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp \$900

Bridgeport Geraldine Johnson School Kelly Mulligan 1009 LT Can you detect Artificial Intelligent generated Text from Human Generated Text? Award m Student(s) Angelica Philogene Grade 8 Town bridgeport Kee'maja Lilley Grade 8 Town Bridgeport

- * Pfizer Computational Biology and Bioinformatics Awards --- 3rd Place Middle School \$100, Trophy
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards ---Middle School Finalist - Medallion
- * Infosys Foundation Computer Science Awards --- Middle School Finalist Medallion

| Bridgeport John Winthrop Srilakshmi Kongani | | |
|---------------------------------------------|-----------------------------|--|
| 4003 PT The Pinwheel Problem | | |
| Award m Student(s) Fernando Marin | Grade 8 Town Bridgeport, CT | |
| Pandora Nguyen | Grade 8 Town Bridgeport, CT | |

- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards ---Middle School Finalist - Medallion
- * EnergizeCT Alternative & Renewable Energy Awards --- Middle School Finalist Medallion



Final Judging Results

Award Legend

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

Urban School Challenge Awards

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

Westside Middle School Academy Nancy Barlow The Effectiveness of Different Distillation Methods for Desalination Student(s) Siddanth Ramakrishnan Town Danbury Grade 7 Award Patrick Madden Grade 7 Town Danbury

- Connecticut Science Fair Association Physical Science Awards --- Finalist Physical Sciences Jr Team CSF Medallion
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards ---Middle School Finalist - Medallion
- Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by CSEF
- * Freeman Family Excellence in Chemistry Awards --- \$100 For Excellence in Chemistry or Chemical Engineering -Middle Schooll

| Danbury | Wests | | nool Academy | | | | | | |
|---------|-------|-------------|----------------|----------------------|----------------------|-----|------|---------|--|
| 1004 | LT | How Does Te | mperature Affe | ct How Bright Biolur | minescent Plankton G | ow? | | | |
| Award [| m | Student(s) | Montana Urba | ın | Grade | 7 | Town | Danbury | |
| | | | Sebastian Ma | dera-Guridy | Grade | 7 | Town | Danbury | |
| | | | Erin George | | Grade | 7 | Town | Danbury | |
| | | | | | | | | | |

Westside Middle School Academy Nancy Barlow Danbury 4023 How do Different Strength Magnets Affect a Phone's Charging Speed Student(s) Kylie Wilson Award m Grade 8 Town Danbury Caleb Lopes Grade 8 Town Danbury Carmelo McCollough Town Danbury Grade 8

High School

Academy of Information Technology and Joshua Bogard Stamford

A Novel Machine Learning Model for Estrous Cycle Classification in Mice

Student(s) Saachi Goyal Award

Grade 11 Town Stamford

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist Life Science Senior High CSF Medallion
- * Pfizer Computational Biology and Bioinformatics Awards --- 2nd Place High School \$300, Plaque
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards ---1st Place High School - \$500 and Plaque, Medallion
- * Infosys Foundation Computer Science Awards --- Senior High Finalist Medallion
- * H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering --- \$500 to 1st HS Urban School Challenge Science Department for Equipment/Supplies

^{*} The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards ---Middle School Finalist - Medallion

^{*} The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards ---Middle School Finalist - Medallion

^{*} Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion



Final Judging Results

Award Legend

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

Urban School Challenge Awards

[School] [Teacher] [Proj#] [FCat] [Project Title] Academy of Aerospace and Engineering Michelle Bellinger Windsor Therapeutic Potential of Antibody Drug Conjugates Targeting The Expression of Trophoblast Cell-Surface Antigen 2 3004 (TROP-2) On High Grade Serous Epithelial Ovarian Carcinoma Student(s) Ana-Lois Davis Town Broad Brook Grade 12 2 Award * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 2nd Place High School - \$300 and Plaque, Medallion * Alexion Biotechnology Awards --- 3rd Place Biotechnology Senior High - \$200 & plaque * The Community Foundation for Greater Hew Haven's Milton Fisher Awards for Innovation and Creativity --- For Excellence in Creativity and Innovation by a High School student, \$100 cash Manchester High School Wendy Turek-Hernandez 3138 LS Determining the incidence of Beech Leaf Disease symptom severity based on overwintering nematode abundance in Fagus grandifolia buds Student(s) Dina Watson Grade 12 Town Manchester 3 Award * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards ---3rd Place High School - \$ 200 and Plaque, Medallion * Alumni Botany Awards --- Alumni High School Botany Award- \$100 Cash New Haven Engineering and Science University Magnet School Roger Rushworth Implementation of a Computationally Efficient Machine-Learning-Based System to Diagnose Cervical Cancer via Numerical Feature Extraction and Multivariate Regression Student(s) Ethan Joseph Town West Haven Grade 9 Award 4 * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards ---4th Place High School - Plaque, Medallion * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion New Haven Engineering and Science University Magnet School Alyssa Anderson Synthesis of Porous Polymer Sponge Matrix using Modified Sodium Alginate Clay Compound for Adsorptive Removal 6052 of Microplastics and Oil from Contaminated Water Student(s) Snigtha Mohanraj Grade 11 Town Ansonia 5 Award

- Connecticut Science Fair Association Physical Science Awards --- Finalist Physical Sciences Senior High CSF Medallion
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards ---5th Place High School - Plaque, Medallion
- * Pepsico Engineering Awards --- Finalist Engineering High School CSF Medallion
- * U.S. Metric Association --- Certificate & \$25 gift card given by CSEF
- * Stockholm Junior Water Prize --- Certificate, \$25 gift card by CSEF, possible advance to further competition
- * The Community Foundation for Greater New Haven Ecology, Environmental, and Alternative Energy Research Prize --- Urban Public School Environmental / Energy Award - \$250

[SchTown]



Final Judging Results

Award Legend

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

Urban School Challenge Awards

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

| . , | . 10,000 111101 | | <u> </u> |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------|
| | eport Regional Aquaculture Center Kirk Shadle | 1.0 | · Mark D |
| 3015 LS N | Non-Thermal Induction of Heat Shock Protein 90 to Mitigate Ea | irly Oncogen | esis With Preserved HSR |
| Award m | Student(s) Chloe Atkins | Grade 12 | Town Stratford |
| * Pe * Tr S * Ui | fe Science Awards with support from Boehringer Ingelheim etit Family Foundation Women in Science & Engineering Awar ne Jackson Laboratory with Connecticut Academy of Science a Senior High Finalist - Medallion niversity of Connecticut - Early College Experience UCON Co-Op \$100 Gift Certificate | ds High s and Engineer | School Finalist - Medallion ing Urban School Challenge Awards |
| | eport Regional Aquaculture Center Kirk Shadle | | |
| 6030 PS L | Jsing Sodium Alginate Derived Porous Carbon Material to Incre | ease Capacit | ance of a Cellulose Matrix |
| Award m | Student(s) Isabella E Silva | Grade 12 | Town Bridgeport |
| M * Th | onnecticut Science Fair Association Physical Science Awards Medallion ne Jackson Laboratory with Connecticut Academy of Science a Senior High Finalist - Medallion | | |
| | eport Regional Aquaculture Center Kirk Shadle | | |
| 3077 LS L | Jtilizing Fucus distichus alginates to develop an enhanced aero | osol treatmer | t for Cystic Fibrosis |
| Award m | Student(s) Mia Nierenberg | Grade 12 | Town Stratford |
| * Th S | fe Science Awards with support from Boehringer Ingelheim ne Jackson Laboratory with Connecticut Academy of Science a Senior High Finalist - Medallion A. Augustine and H. Glista Awards \$100 for excellence in | and Engineer | ing Urban School Challenge Awards |
| | neering and Science University Magnet School Roger Rushw Evaluating Hyperparameter Tuned Machine Learning Classifier | | atic Cancer Detection via Urinary |
| | _valualing rivperparameter runed ivialinie Leanning Classillei | J IOI I AIIUIC | and danied Defection via Unitally |

- Biomarkers
- Award m

Student(s) Nivrith Ananth Iyer

Grade 10 Town West Haven

- * Connecticut Science Fair Association Physical Science Awards --- Finalist Physical Sciences Senior High CSF Medallion
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards ---Senior High Finalist - Medallion
- * Infosys Foundation Computer Science Awards --- Senior High Finalist Medallion

Windsor Academy of Aerospace and Engineering Michelle Bellinger

6515 PST The Effect of Surface Texture on the Efficiency of a Spoiler (airfoil) in Formula 1 Race Cars.

Award m

Student(s) Willard Davis

Grade 10 Town Broad Brook

Peter Davis

Grade 10 Town Broad Brook

- * Connecticut Science Fair Association Physical Science Awards --- Finalist Physical Sciences Senior Team CSF
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards ---Senior High Finalist - Medallion



Final Judging Results

Award Legend

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

Urban School Challenge Awards

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

Windsor Academy of Aerospace and Engineering Michelle Bellinger

[Teacher]

3054 LS Optimizing Laterite Soil Microbial Fuel Cells for Community-Centric Electricity Generation in Tropical Underdeveloped Regions

Award m

Student(s) Namyanzi Edwards

Grade 11 Town New Britain

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist Life Science Senior High CSF Medallion
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards ---Senior High Finalist - Medallion
- * EnergizeCT Alternative & Renewable Energy Awards --- High School Finalist Medallion
- * EnergizeCT Future Sustainability Awards --- 2nd Place High School \$300 Cash and Plaque
- * Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF
- * IEEE, Connecticut Section --- \$250 Honors Award -Senior
- * GENIUS Olympiad --- GENIUS Olympiad Competition for HS Environmental, Energy, Ecology, or Biodiversity Project
- * The Community Foundation for Greater New Haven Ecology, Environmental, and Alternative Energy Research Prize
 --- Urban Public School Environmental / Energy Award \$250
- * University of Connecticut Academic Excellence Scholarship --- Academic Excellence Scholarship (amount undefined) to a junior)