



Conn. Science & Engineering Fair
Quinnipiac University
March 14 - 18, 2017

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

Special Awards

Air and Waste Management Association, Connecticut Chapter

Award \$100 Junior, Environmental Research, air pollution related

School **Talcott Mountain Academy** **Avon** **Usha Meera**

Project Title Can Pseudomonas putida purify the air by biodegrading volatile organic compounds ?

Proj. No. **2021**

Student(s) Karan Kothari **Grade** 7 **Town** Glastonbury

Award \$100 Junior, Environmental Research, waste recycling related

School **Sport and Medical Sciences Academy** **Hartford** **Christine Demusz**

Project Title Natural Plastic: Milk Plastic Biodegradation vs. Commercial Plastic Degradation

Proj. No. **5508**

Student(s) Madison Lee **Grade** 8 **Town** Rocky Hill

Award \$100 Senior, Environmental Research, air pollution related

School **Bridgeport Regional Aquaculture Center** **Bridgeport** **Kirk Shadle**

Project Title Utilizing a Freshwater Bioreactor as an Effective Carbon Dioxide Sequestration Technique

Proj. No. **3129**

Student(s) Daniel Schaefer **Grade** 12 **Town** Stratford

Award \$100 Senior, Environmental Research, waste recycling related

School **Shelton High School** **Shelton** **Christine McNamara**

Project Title Biodegradable Plastic Study to Prevent Oceanic Pollution

Proj. No. **6023**

Student(s) Marissa Peck **Grade** 12 **Town** Shelton

Alumni Botany Awards

Award Alumni High School Botany Award- \$100 Cash

School **Science and Technology Magnet HS** **New London** **Charles Mulligan**

Project Title Effectiveness of American Beach Grass Restoration

Proj. No. **3081**

Student(s) Tessa Rock **Grade** 11 **Town** New London

Award	Alumni Middle School Botany Award- \$100 Cash		
School	Bi-Cultural Day School	Stamford	Christopher Graseck
Project Title	An Analysis of Nitrogen and Phosphate Fertilizer on Algae Growth		
Proj. No.	2025		
Student(s)	Anna Lichtenberg	Grade 7	Town Stamford

American Institute of Aeronautics & Astronautics - Connecticut Section

Award	\$200 award, certificate		
School	St. Paul School	Kensington	Ms. Michalak
Project Title	It is Rocket Science		
Proj. No.	5012		
Student(s)	Jack Szeghy	Grade 7	Town Southington

Award	\$200 award, certificate		
School	Park City Prep Charter School	Bridgeport	Jonathan Jeakle
Project Title	Where is the paper airplane?		
Proj. No.	5558		
Student(s)	Hairo Vivas-Nava	Grade 8	Town Bridgeport

American Meteorological Society

Award	Certificate & \$25 Amazon gift card given by CSEF		
School	Memorial Middle School	Middlebury	Allyson Debe
Project Title	Does Intra-articular Hip Steroid Injection Increase The Rate of Infection With Subsequent Total Hip Replacement Surgery?		
Proj. No.	2531		
Student(s)	Alexander Kennon	Grade 8	Town Middlebury

Award	Certificate & \$25 Amazon gift card given by CSEF		
School	EO Smith High School	Storrs	Cheryl Granger
Project Title	Patterns in the Overall Performance of Baseball Players at Different Positions		
Proj. No.	3044		
Student(s)	Alexander Chandy	Grade 10	Town Storrs

Award Certificate & \$25 Amazon gift card given by CSEF

School **Greenwich High School** **Greenwich** **Andrew Bramante**

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

Proj. No. **3086**

Student(s) Shobhita Sundaram **Grade** 11 **Town** Greenwich

Award Certificate & \$25 Amazon gift card given by CSEF

School **Amity Reg Middle School - Bethany Campus** **Bethany** **Kevin Berean**

Project Title Vision Shoe

Proj. No. **5559**

Student(s) Shyam Viswanathan **Grade** 8 **Town** Woodbridge

Award Certificate & \$25 Amazon gift card given by CSEF

School **Amity Regional High School** **Woodbridge** **Deborah Day**

Project Title Analysis and Proving of "Cycloid" Universe Using Friedmann Equations and Torsion Cosmology

Proj. No. **6510**

Student(s) Kelsey McCormack **Grade** 12 **Town** Orange

Himay Dharani **Grade** 12 **Town** Orange

Award Certificate & \$25 Amazon gift card given by CSEF

School **Avon High School** **Avon** **Mrs. Andrea Galuska**

Project Title Virtual Forensics Chemical Lab Simulation App (for Liquids, Metals, and Nonmetal Solids)

Proj. No. **6529**

Student(s) Jaya Hari **Grade** 9 **Town** Avon

Dheepa Hari **Grade** 9 **Town** Avon

American Psychological Association

Award Certificate, \$25 gift card to Amazon given by CSEF

School **Suffield Middle School** **Suffield** **Charkiewicz**

Project Title How age affects short term memory

Proj. No. **2511**

Student(s) Akshita Jindal **Grade** 8 **Town** Suffield

Award Certificate, \$25 gift card to Amazon given by CSEF

School Hamden High School Hamden Sophia Michalatos

Project Title Caffeine's Effect on Anxiety in Teens

Proj. No. 3092

Student(s) Zoe Bassett **Grade** 10 **Town** Hamden

Award Certificate, \$25 gift card to Amazon given by CSEF

School Ridgefield High School Ridgefield Ryan Gleason

Project Title Analyzing Rhythmic Processing Abilities in Children Ages Five to Fifteen

Proj. No. 3146

Student(s) Nora Maerean **Grade** 11 **Town** Ridgefield

American Society for Metals - Hartford Chapter

Award \$100 Check

School Greens Farms Academy Greens Farms Mathieu Freeman

Project Title Anticorrosive Coatings on AZ31 Magnesium Alloy to Reduce Degradation Rate for Metallic Medical Implants

Proj. No. 3113

Student(s) Anish Kosanam **Grade** 12 **Town** Stamford

Award \$100 Check

School Bethel High School Bethel Ray Turek

Project Title Synthetic Turf Infill Engineering

Proj. No. 6086

Student(s) Rachel Salvador **Grade** 12 **Town** Bethel

Award \$100 Check

School Academy of Aerospace and Engineering Windsor Michelle Bellinger

Project Title Effects of Concentration and Cooling Rate on Microstructural and Macroscopic Properties of Tin-Zinc Binary Alloys

Proj. No. 6098

Student(s) Jay Aindow **Grade** 12 **Town** Tolland

American Society for Quality - Thames Valley Section

Award	\$250 Cash Award		
School	Greenwich High School	Greenwich	Andrew Bramante
Project Title	Crowd-Sourced Detection and Mapping of Nitrate Water Pollutants via a Mobile Web-Based Image Analysis System		
Proj. No.	3032		
Student(s)	Luca Barcelo	Grade 11	Town Old Greenwich

American Society of Safety Engineers, CT Valley Chapter

Award	\$100 grade 7-8 project		
School	King Philip Middle School	West Hartford	Robert Felekey
Project Title	Slip Hazard Alarm Robot--H2OhNobot		
Proj. No.	5038		
Student(s)	Theodore Zhang	Grade 7	Town West Hartford

Award	\$100 grade 7-8 project		
School	Amity Reg Middle School - Bethany Campus	Bethany	Kevin Berean
Project Title	Extinguish-Bot		
Proj. No.	5519		
Student(s)	Weiss Yuan	Grade 8	Town Woodbridge

Award	\$100 grade 7-8 project		
School	Amity Reg Middle School - Orange Campus	Orange	Mr. Dahn/Foley
Project Title	Silicone-Filled Drumsticks can Reduce Vibration Impact in a Drummer's Hand		
Proj. No.	5521		
Student(s)	Sebastian Todeasa	Grade 8	Town Orange

Award	\$150 grade 9-12 project		
School	Suffield High School	Suffield	Mitchell Charkiewicz
Project Title	A Novel Approach to Measuring Reaction Times in a Simulated Driving Environment		
Proj. No.	6027		
Student(s)	Caitlin Kirschbaum	Grade 12	Town Suffield

Award	\$150 grade 9-12 project		
School	Bridgeport Military Academy	Bridgeport	Evanna Dias
Project Title	Fire Resistance		
Proj. No.	6068		
Student(s)	Evanna Dias	Grade 12	Town Bridgeport

Award	\$150 grade 9-12 project		
School	Amity Regional High School	Woodbridge	Deborah Day
Project Title	Designing a Protective Cap To Reduce Impact Force and Head Trauma		
Proj. No.	6093		
Student(s)	Quinnlan Burke	Grade 11	Town Woodbridge

Arthur Mensing Award

Award	\$1000 cash award for excellence in the physical sciences		
School	Engineering Science University Magnet	New Haven	Heather Toothaker
Project Title	A Novel Rapid Diagnostic Test for Zika Virus NS1 Protein using Nanoribbon Microfluidics		
Proj. No.	6005		
Student(s)	Lauren Low	Grade 12	Town Hamden

ASM Materials Education Foundation

Award	Certificate & \$25 gift card to Amazon given by CSEF		
School	Shelton High School	Shelton	Christine McNamara
Project Title	Biodegradable Plastic Study to Prevent Oceanic Pollution		
Proj. No.	6023		
Student(s)	Marissa Peck	Grade 12	Town Shelton

Award	Certificate & \$25 gift card to Amazon given by CSEF		
School	Academy of Aerospace and Engineering	Windsor	Michelle Bellinger
Project Title	Effects of Concentration and Cooling Rate on Microstructural and Macroscopic Properties of Tin-Zinc Binary Alloys		
Proj. No.	6098		
Student(s)	Jay Aindow	Grade 12	Town Tolland

Award	Certificate & \$25 gift card to Amazon given by CSEF		
School	Bridgeport Regional Aquaculture Center	Bridgeport	Kirk Shadle
Project Title	Evaluation of BMG via tensile strength and hardness after exposure to acidic, basic, and saline conditions		
Proj. No.	6078		
Student(s)	Koe Tsutsumi	Grade 12	Town Stratford

Association for Women Geoscientists

Award	Certificate & \$25 gift card to Amazon given by CSEF		
School	Madina Academy	Windsor	Saqib Chariwala
Project Title	Light Intensity and Photosynthesis: How different colors of light and their intensities affect photosynthesis?		
Proj. No.	4013		
Student(s)	Sakinah Caesar	Grade 7	Town Simsbury
	Sheza Chaudhry	Grade 7	Town Windsor Locks

Award	Certificate & \$25 gift card to Amazon given by CSEF		
School	Sayles School	Baltic	Miss Roy
Project Title	Wave Generated Beach Erosion		
Proj. No.	5041		
Student(s)	Abigail Staggs	Grade 7	Town Baltic

Award	Certificate, \$25 gift card to Amazon given by CSEF, possible advance to further competition		
School	Dodd Middle School	Cheshire	Mr. Brian Lopez
Project Title	"Organic Waste : A Renewable Source of a Energy"		
Proj. No.	5570		
Student(s)	Medha Illindala	Grade 8	Town Cheshire

Astronomical Society of Greater Hartford

Award	Junior Project-\$100, subscription to Sky and Telescope magazine and ASGH meeting invitation		
School	Walter Polson Middle School	Madison	Anna Chang
Project Title	Multi-color CCD photometry of the variable star Delta Cephei using a home-built six inch reflecting telescope		
Proj. No.	5571		
Student(s)	Aimee Chang	Grade 8	Town Madison

Award	Senior Project-\$150, subscription to Sky and Telescope magazine and ASGH meeting invitation		
School	Brunswick School	Greenwich	Dana Montanez
Project Title	An Investigation of Similarities Between Light Curves of Intrinsic Variable Stars		
Proj. No.	6102		
Student(s)	Thomas Kimberlin	Grade 10	Town Greenwich

ASU Walton Sustainability Solutions Initiatives

Award	Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card		
School	Bridgeport Regional Aquaculture Center	Bridgeport	Kirk Shadle
Project Title	The efficacy of topical ascorbic acid as an inhibitor to mold and bacteria growth		
Proj. No.	3076		
Student(s)	Cassidy Fawcett	Grade 12	Town Fairfield

Award	Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card		
School	Bridgeport Regional Aquaculture Center	Bridgeport	Kirk Shadle
Project Title	The Use of a Hydroxybenzene Group Variant, Grapefruit Seed Extract, as an Alternative Natural Pesticide for Contemporary Chemicals in Modern Agriculture		
Proj. No.	3137		
Student(s)	Kyle Rosenfeld	Grade 12	Town Fairfield

Award	Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card		
School	Greenwich High School	Greenwich	Andrew Bramante
Project Title	Novel Low-Temperature Carbon Capture Using Aqueous Ammonia and Organic Solvents		
Proj. No.	6010		
Student(s)	Ethan Novek	Grade 12	Town Greenwich

Award	Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card		
School	The Hotchkiss School	Lakeville	Richard Kyung
Project Title	A New Fast Algorithm for Finding Eigenvalues in Vibrating Structures		
Proj. No.	6030		
Student(s)	Seouk Jun Kim	Grade 11	Town Lakeville

Award Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card

School **Bruder Homeschool** **New Haven** **John Bruder**

Project Title Design, build, and code a cellular/WiFi enabled smart thermostat using a microcontroller and a custom Android app to increase energy efficiency for homes and workplaces.
Proj. No. **6051**

Student(s) Ben Bruder **Grade** 10 **Town** New Haven

Award Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card

School **Engineering Science University Magnet** **New Haven** **Roger Rushworth**

Project Title Developing a Novel Energy Harvesting Device using Paint-on Fabrication Techniques with Mosz and use of Discardable Materials
Proj. No. **6097**

Student(s) Arya Bairat **Grade** 9 **Town** Milford

Banning Family Life Science Award

Award For excellence in invasive species research, \$100 cash

School **Science and Technology Magnet HS** **New London** **Mr. Mulligan**

Project Title Implicating the Tolerance of Glyphosate on Artemisia Vulgaris
Proj. No. **3103**

Student(s) Tori Johnston **Grade** 11 **Town** Waterford

Barker Mohandas Awards for Transportation Research

Award \$100 Cash & Plaque for Excellence in Transportation Related Research- Middle School

School **Sacred Heart School** **Groton** **Larry Fitzgerald, Principal**

Project Title INDUCED LEVITATION AND MOVEMENT APPLYING LENZ'S LAW
Proj. No. **5536**

Student(s) Michael Luzzio **Grade** 8 **Town** Groton

Award \$200 Cash & Plaque for Excellence in Transportation Related Research- High School

School **Brunswick School** **Greenwich** **Dana Montanez**

Project Title Optimizing Efficiency of Long Distance Tube-And-Pod-Based Low Friction Transportation Systems
Proj. No. **6044**

Student(s) Wesley Peisch **Grade** 11 **Town** Greenwich

Biophysical Society

Award	Biophysics Award- \$100		
School	Glastonbury High School	Glastonbury	Diane Pintavalle
Project Title	INTERACTION BETWEEN HDM2 AND THE UBL3 DOMAIN OF USP7		
Proj. No.	3023		
Student(s)	Soham Kale	Grade 12	Town Glastonbury

Bob Harris Fix It Award

Award	\$75 and Certificate for ingenuity in using material and tools		
School	Greenwich High School	Greenwich	Andrew Bramante
Project Title	Rapid Colorimetric Field Monitoring System for Zika Virus in Mosquito Populations via DNAzyme-Functionalized Gold Nanoparticles		
Proj. No.	3010		
Student(s)	Rahul Subramaniam	Grade 10	Town Cos Cob

Award	\$75 and Certificate for ingenuity in using material and tools		
School	Sacred Heart School	Groton	Larry Fitzgerald, Principal
Project Title	INDUCED LEVITATION AND MOVEMENT APPLYING LENZ'S LAW		
Proj. No.	5536		
Student(s)	Michael Luzzio	Grade 8	Town Groton

Cell Analysis and Modeling Award -Center for Cell Analysis and Modeling at

Award	\$100 monetary prize- and Tour of the Cell and Genome Sciences Institute at UCONN Health Center		
School	Glastonbury High School	Glastonbury	Ms. Diane Pintavalle
Project Title	IDENTIFYING SMALL MOLECULE TRANSLATION SYNTHESIS PATHWAY INHIBITORS TARGETING REV1-CT PROTEIN-PROTEIN INTERACTION		
Proj. No.	3035		
Student(s)	Samantha Chow	Grade 12	Town Glastonbury

Award	\$100 monetary prize- and Tour of the Cell and Genome Sciences Institute at UCONN Health Center		
School	Glastonbury High School	Glastonbury	Diane Pintavalle
Project Title	Genomic Analysis of Osteosarcoma to Identify Novel Key Regulatory Pathways in Tumorigenesis		
Proj. No.	3042		
Student(s)	Samarth Venkata Menta	Grade 11	Town Glastonbury

Coherent, Inc. Richard Hart Award for Excellence in Photonics

Award	\$300 cash, plaque, invitation to lunch and tour Coherent factory		
School	Greenwich High School	Greenwich	Andrew Bramante
Project Title	Development of a CNT/ZnO/TiO ₂ membrane for visible-light induced photocatalytic filtration of water-borne organic and bacterial pollutants		
Proj. No.	6015		
Student(s)	Michelle Xiong	Grade 11	Town Riverside

Connecticut Academy of Audiology

Award	\$150 Award MS- For Excellence in Audiology and Acoustics, opport. to shadow an audiologist		
School	St. Joseph School	Danbury	Miss Jabbour
Project Title	SINGING WINE GLASSES AND BOTTLES		
Proj. No.	5561		
Student(s)	Shelby Weed	Grade 8	Town Danbury

Award	\$200 Award HS- For Excellence in Audiology and Acoustics, opport. to shadow an audiologist		
School	Glastonbury High School	Glastonbury	Mr. Jerome Maas
Project Title	Natural antimicrobials: Alternatives to antibiotics in the control of ear infections		
Proj. No.	3100		
Student(s)	Athulya Narayanan	Grade 10	Town Glastonbury

Connecticut Association of Physics Teachers

Award	\$100 Senior project		
School	CT STEM Fair	Redding	Andrew Bramante
Project Title	Optimization of Vertically Aligned Boron Nitride Nanotube Membranes via Magnetic Arrangement in a Lyotropic Precursor for Water Transport Applications		
Proj. No.	6013		
Student(s)	Connor Li	Grade 12	Town Cos Cob

Connecticut College-Physics, Astronomy, & Geophysics Dept.

Award	\$150 and certificate, Junior Physics & teeshirt		
School	ACES Thomas Edison Middle School	Meriden	Todd Solli
Project Title	The Relationship Between Aerodynamic Shape and Wind Drag		
Proj. No.	5554		
Student(s)	Kaya Cook	Grade 8	Town Middletown

Award	\$150 and certificate, Senior Physics & teeshirt		
School	St. Joseph High School	Trumbull	Kevin Green
Project Title	Determining Orbital Properties of Eclipsing Binary Stars Through Visual Observations of Variable Brightness		
Proj. No.	6096		
Student(s)	James Bove	Grade 11	Town Trumbull

Connecticut Invention Convention "Next Step Inventors"

Award	\$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"		
School	Greenwich Catholic School	Greenwich	Mrs. Carol Lutz
Project Title	BITE BRIGHT a Natural Tooth Paste		
Proj. No.	2012		
Student(s)	Monica Marino	Grade 7	Town Riverside

Award	\$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"		
School	Middlebrook Middle School	Wilton	Jessica Garcia
Project Title	A Novel Method for Oil Spill Cleanup Using Biomass		
Proj. No.	2504		
Student(s)	Anika Bhagavatula	Grade 8	Town Wilton

Award	\$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"		
School	King Philip Middle School	West Hartford	Robert Felekey
Project Title	Slip Hazard Alarm Robot--H2OhNobot		
Proj. No.	5038		
Student(s)	Theodore Zhang	Grade 7	Town West Hartford

Award	\$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"		
School	Amity Reg Middle School - Bethany Campus	Bethany	Kevin Berean
Project Title	Vision Shoe		
Proj. No.	5559		
Student(s)	Shyam Viswanathan	Grade 8	Town Woodbridge

Award \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

School **Shelton High School** **Shelton** **Lucia Dunham**

Project Title Hot Glass

Proj. No. **6002**

Student(s) Jacob Zuklie **Grade** 11 **Town** Shelton

Award \$50 gift certificate & invitation to present at CT Invention Convention as "CIC Next Step Inventors"

School **Greens Farms Academy** **Greens Farms** **Mathieu**

Project Title Designing and Implementing a Flexible Support System for the Finger Injury Prevention in High-Impact Sports and Applications

Proj. No. **6076**

Student(s) Charles Thompson **Grade** 12 **Town** Southport

Connecticut Nurserymen's Foundation, Inc.

Award \$200 Cash Award & paid registration to the CT Nursery and Landscape Summer Meeting

School **Wilbur Cross High School** **New Haven** **Prof. Joshua Gendron**

Project Title A study of circadian genetics and abiotic stress towards sustainable agriculture

Proj. No. **3151**

Student(s) Maya Geradi **Grade** 11 **Town** New Haven

Award \$200 Cash Award & paid registration to the CT Nursery and Landscape Summer Meeting

School **St. Paul Catholic High School** **Bristol** **Mr. Aliberti**

Project Title A Weather-Based Autonomous Rainwater Irrigation System

Proj. No. **6047**

Student(s) Kamila Krawczuk **Grade** 11 **Town** New Britain

Connecticut Science Supervisors Association

Award \$125 for a high school project

School **Science and Technology Magnet HS** **New London** **Mr. Mulligan**

Project Title The Effect Half and Full Day Illumination Periods Have On Aquaponical and Conventional Methods

Proj. No. **3541**

Student(s) Xaryia Melendez **Grade** 10 **Town** Colchester

Bria Fielding **Grade** 10 **Town** New London

Award	\$125 for a middle school project		
School	Fields Memorial School	Bozrah	Mrs. Brown
Project Title	Environmental Monitoring System for Dog Safety		
Proj. No.	5004		
Student(s)	Morgan Tainter	Grade 7	Town Gilman

Constellation, an Exelon Company

Award	1st: \$100.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy		
School	Madina Academy	Windsor	Saqib Chariwala
Project Title	Investigating Novel Methods of Generating Electricity Using a Double Plated Magnetic Generator with Springs Compared to a Miniature Axial Rounded Tip Tidal Stream Generator		
Proj. No.	4020		
Student(s)	AlYaman Zoghol	Grade 8	Town Enfield
	Ahmad Mohammed	Grade 8	Town Windsor

Award	1st: \$150.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy		
School	Greenwich High School	Greenwich	Mr. Bramante
Project Title	Renewable Energy Generation of a Hybridized Saltwater Electrochemical and Hydrokinetic Energy System		
Proj. No.	6053		
Student(s)	Bennett Hawley	Grade 10	Town Cos Cob

Award	2nd: \$100.00 Cash - Grade 9 - 12: For Excellence in clean renewable / sustainable energy		
School	Science and Technology Magnet HS	New London	Charles Mulligan
Project Title	The Optimization of a Polycrystalline and Monocrystalline Solar Cell through Effective Cooling in the Form of a Heatsink Transfer System		
Proj. No.	6519		
Student(s)	John Burnett	Grade 11	Town Ledyard
	Austin Huang	Grade 11	Town Uncasville

Award	2nd: \$50.00 Cash - Grade 7 - 8: For Excellence in clean renewable / sustainable energy		
School	ACES Thomas Edison Middle School	Meriden	Todd Solli
Project Title	The Relationship Between Aerodynamic Shape and Wind Drag		
Proj. No.	5554		
Student(s)	Kaya Cook	Grade 8	Town Middletown

Ct Architecture Foundation Award Name: The William M. Mack, AIA Award

Award	\$250 Gift Certificate to Barnes and Noble from the Connecticut Architecture Foundation, William M. Mack, AIA Award.		
School	High Horizons Magnet School	Bridgeport	Portia Scott-Thiam
Project Title	Sturdiest of Them All		
Proj. No.	4024		
Student(s)	Kayla Keddo	Grade 8	Town Bridgeport
	Dea'ja Jones	Grade 8	Town Bridgeport

Award	\$250 Gift Certificate to Barnes and Noble from the Connecticut Architecture Foundation, William M. Mack, AIA Award.		
School	Oei Homeschool	Hebron	Ellen McHugh
Project Title	Developing a Prototype Atmospheric Water Generator System as a Clean, Safe and Sustainable Water Source		
Proj. No.	5537		
Student(s)	John Oei	Grade 8	Town Hebron

Demos R Us Award

Award	\$150 Cash Award- Clear Execution of Research		
School	Christian Heritage School	Trumbull	Theresa Miller
Project Title	The fabrication and testing of various fruit juice dye-sensitized solar cells with the addition of preservatives		
Proj. No.	5555		
Student(s)	Rachel Brooks	Grade 8	Town Trumbull

Dreams Unlimited Award

Award	\$200 Cash Award + Certificate		
School	Amity Reg Middle School - Bethany Campus	Bethany	Kevin Berean
Project Title	Water Turbine		
Proj. No.	4004		
Student(s)	Christopher Hill	Grade 8	Town Woodbridge
	Benjamin Lee	Grade 8	Town Woodbridge

Environmental/ Energy Award- Urban Public School Award

Award	\$100 Award for top environmental or alternative energy project from a New Haven public school		
School	Engineering Science University Magnet	New Haven	Roger Rushworth
Project Title	How do Different Types of Street Lights Impact Our Environment and What is the Safest Way to Illuminate Our Streets?		
Proj. No.	2510		
Student(s)	Eva Heaphy	Grade 8	Town New Haven

Evelyn Brown Award

Award	Earth Science - Field work with geologic or historic value		
School	St. Michael School	Pawcatuck	Mrs. Grossomanides
Project Title	Is That Granite Radioactive?		
Proj. No.	2023		
Student(s)	Samuel Montalto	Grade 7	Town Westerly

Fox Pest Control Award for Environmental Management

Award	\$150 Cash for Excellence in Environmental management		
School	Waterford High School	Waterford	Michael O'Connor
Project Title	The Use of Copepods as a Mosquito Control System		
Proj. No.	3016		
Student(s)	Sophie Wang	Grade 11	Town Waterford

GCS Award for Excellence in Transportation Engineering

Award	\$250 cash and plaque		
School	Irving A. Robbins Middle School	Farmington	Kerry Visone
Project Title	Making concrete more energy efficient and lightweight.		
Proj. No.	5530		
Student(s)	Angela Sadlowski	Grade 8	Town Unionville

GENIUS Olympiad

Award	GENIUS Olympiad Competition for 2nd Place HS Alternative/Renewable Energy Project		
School	Greenwich High School	Greenwich	Mr. Andrew Bramante
Project Title	A Novel N-Doped Carbon Nanotube/Copper Electrode for the Reduction of CO ₂ to Biofuel		
Proj. No.	6033		
Student(s)	Michelle Woo	Grade 11	Town Riverside

Award	GENIUS Olympiad Competition for 2nd Place HS Environmental Project		
School	Greenwich High School	Greenwich	Andrew Bramante
Project Title	Remediation of Beryllium Heavy Metal via Phaseolus vulgaris Hyperaccumulation		
Proj. No.	3074		
Student(s)	Manuel Carballo	Grade 12	Town Greenwich

Award	GENIUS Olympiad Competition for 2nd Place HS Future Sustainability		
School	Fairfield College Preparatory School	Fairfield	Ms. Kiel
Project Title	An investigation into the use of fruit peel filters to reduce the level of water contamination.		
Proj. No.	3126		
Student(s)	Jonathan Siveyer	Grade 12	Town Monroe

Award	GENIUS Olympiad Competition for Highest Placing USC 8th grade Project		
School	Sport and Medical Sciences Academy	Hartford	Christine Demusz
Project Title	Natural Plastic: Milk Plastic Biodegradation vs. Commercial Plastic Degradation		
Proj. No.	5508		
Student(s)	Madison Lee	Grade 8	Town Rocky Hill

Henderson Award

Award	Certificate and \$25 Amazon Gift Card given by CSF		
School	J.A. DePaolo Middle School	Southington	Ms. Shea
Project Title	Snap Crackle Pop		
Proj. No.	5026		
Student(s)	Morgan Birdsey	Grade 7	Town Southington

IEEE, Connecticut Section

Award	\$100 Honorable Mention		
School	Sacred Heart School	Groton	Larry Fitzgerald, Principal
Project Title	INDUCED LEVITATION AND MOVEMENT APPLYING LENZ'S LAW		
Proj. No.	5536		
Student(s)	Michael Luzzio	Grade 8	Town Groton

Award	\$100 Honorable Mention		
School	Hamden Middle School	Hamden	Michelle DeLucia
Project Title	Constructing a CoreXY Dual Extrusion Fused Filament Fabrication Apparatus		
Proj. No.	5545		
Student(s)	Conner Larocque	Grade 8	Town Hamden

Award	\$100 Honorable Mention		
School	Amity Reg Middle School - Bethany Campus	Bethany	Kevin Berean
Project Title	Vision Shoe		
Proj. No.	5559		
Student(s)	Shyam Viswanathan	Grade 8	Town Woodbridge

Award	\$100 Honorable Mention		
School	Engineering Science University Magnet	New Haven	Heather Toothaker
Project Title	A Novel Rapid Diagnostic Test for Zika Virus NS1 Protein using Nanoribbon Microfluidics		
Proj. No.	6005		
Student(s)	Lauren Low	Grade 12	Town Hamden

Award	\$100 Honorable Mention		
School	Greenwich High School	Greenwich	Mr. Bramante
Project Title	Renewable Energy Generation of a Hybridized Saltwater Electrochemical and Hydrokinetic Energy System		
Proj. No.	6053		
Student(s)	Bennett Hawley	Grade 10	Town Cos Cob

Award	\$250 Honors Award -Senior		
School	Engineering Science University Magnet	New Haven	Roger Rushworth
Project Title	Developing a Novel Energy Harvesting Device using Paint-on Fabrication Techniques with Mosz and use of Discardable Materials		
Proj. No.	6097		
Student(s)	Arya Bairat	Grade 9	Town Milford

Award	\$250 Honors Award -Junior		
School	Greenwich Catholic School	Greenwich	Mrs. Lutz
Project Title	A Helping Hand		
Proj. No.	4028		
Student(s)	Gianna Saviano	Grade 8	Town Stamford
	Sofina Tillman Singh	Grade 8	Town Stamford

Institute of Food Technologists, Nutmeg Section

Award	\$100 award + invitation to dinner		
School	Bridgeport Regional Aquaculture Center	Bridgeport	Kirk Shadle
Project Title	The efficacy of topical ascorbic acid as an inhibitor to mold and bacteria growth		
Proj. No.	3076		
Student(s)	Cassidy Fawcett	Grade 12	Town Fairfield

Award	\$100 award + invitation to dinner		
School	Science and Technology Magnet HS	New London	David Brown
Project Title	Bacterial Analysis of Kefir Products		
Proj. No.	3123		
Student(s)	Yasmin Aguilar	Grade 11	Town New London

Award	\$50 award + invitation to dinner		
School	St. Brigid-St. Augustine School	West Hartford	Donald Fay
Project Title	Ecological Refrigerator		
Proj. No.	2505		
Student(s)	Melanie Grajales	Grade 8	Town West Hartford

Award	\$50 award + invitation to dinner		
School	High Horizons Magnet School	Bridgeport	Portia Scott-Thiam
Project Title	Hydroponics vs. Fogponics		
Proj. No.	2513		
Student(s)	Rebecca Abirached	Grade 8	Town Bridgeport

Award	\$50 award + invitation to dinner		
School	Westside Middle School Academy	Danbury	Dr. Frank LaBanca
Project Title	Bacteria Morphology and Concentration in yogurt		
Proj. No.	2514		
Student(s)	Jason Campisi	Grade 8	Town Danbury

Award	\$50 award + invitation to dinner		
School	ACES Thomas Edison Middle School	Meriden	Todd Solli
Project Title	Fats In Cooking Oils		
Proj. No.	4014		
Student(s)	Ariana Alston	Grade 7	Town Meriden
Student(s)	Selena Galvan	Grade 7	Town Meriden

Intel Excellence in Computer Science Award

Award	\$200 & certificate		
School	Greenwich High School	Greenwich	Andrew Bramante
Project Title	Detection of Premalignant Pancreatic Cancer via Computational Analysis of Serum Proteomic Profiles		
Proj. No.	3086		
Student(s)	Shobhita Sundaram	Grade 11	Town Greenwich

Award	\$200 & certificate		
School	Brunswick School	Greenwich	Dana Montanez
Project Title	Optimizing Efficiency of Long Distance Tube-And-Pod-Based Low Friction Transportation Systems		
Proj. No.	6044		
Student(s)	Wesley Peisch	Grade 11	Town Greenwich

Award	\$200 & certificate		
School	Sacred Heart Academy	Hamden	Elizabeth Christophy
Project Title	Computer-Aided Bleeding Detection in Wireless Capsule Endoscopy Images Using Deep Convolutional Neural Networks		
Proj. No.	6067		
Student(s)	Eunji Lee	Grade 11	Town Trumbull

ISA - International Society for Automation - Ct. Valley Section

Award	1st - \$125 award		
School	St. Aloysius School	New Canaan	deborah phillips
Project Title	Mars Exploration		
Proj. No.	4027		
Student(s)	Kaloyan Dimitrov	Grade 7	Town Norwalk
	Andrew Tully	Grade 7	Town Norwalk
	Alex Lanzillotti	Grade 7	Town Stamford

Award	2nd - \$75 award		
School	Amity Reg Middle School - Bethany Campus	Bethany	Kevin Berean
Project Title	Vision Shoe		
Proj. No.	5559		
Student(s)	Shyam Viswanathan	Grade 8	Town Woodbridge

Award	3rd - \$50 award		
School	Suffield High School	Suffield	Mitchell Charkiewicz
Project Title	A Small Spectrometer to Find Peanut Ingredients in Food.		
Proj. No.	6073		
Student(s)	Zachariah Service	Grade 11	Town Suffield

J.A. Augustine Award

Award	\$100 for excellence in biology		
School	Worthington Hooker Middle School	New Haven	Douglas Jones
Project Title	Seaweed & Tsunamis		
Proj. No.	1009		
Student(s)	Amelia Cox	Grade 7	Town New Haven
	Sage Urban	Grade 7	Town New Haven

Award	\$100 for excellence in physical sciences		
School	Amity Regional High School	Woodbridge	Deborah Day
Project Title	Comparing the efficiency of water-filtering materials and developing an affordable, effective, water filtration system for the developing world		
Proj. No.	6080		
Student(s)	Julia Todeasa	Grade 10	Town Orange

John B. Trevor Award in Electrical Engineering

Award	\$500 cash award for an innovative electronic or electrical project		
School	Fields Memorial School	Bozrah	Mrs. Brown
Project Title	Environmental Monitoring System for Dog Safety		
Proj. No.	5004		
Student(s)	Morgan Tainter	Grade 7	Town Gilman

John S. Kendall Memorial Awards

Award	\$300 John S. Kendall Award for Excellence In Mechanical Engineering - Middle School		
School	Greenwich Catholic School	Greenwich	Mrs. Lutz
Project Title	A Helping Hand		
Proj. No.	4028		
Student(s)	Gianna Saviano	Grade 8	Town Stamford
	Sofina Tillman Singh	Grade 8	Town Stamford

Award	\$500 John S. Kendall Award for Excellence In Mechanical Engineering - High School		
School	Shelton High School	Shelton	Dr. Rivera
Project Title	The Effect of Center of Mass and Center of Pressure Locations of Model Rocket Performance		
Proj. No.	6088		
Student(s)	Siddharth Jain	Grade 9	Town Shelton

Jon Stone Memorial Award

Award	\$150 cash for Innovative Engineering		
School	Ezra Academy	Woodbridge	Rebecca Tishkoff
Project Title	Tracking the movements of a human being.		
Proj. No.	5523		
Student(s)	Ethan Lavi	Grade 8	Town Woodbridge

Leask/Francoeur Family Awards

Award	1st Place High School- For innovation electrical engineering or computer science - \$200 cash		
School	St. Paul Catholic High School	Bristol	Mr. Aliberti
Project Title	A Weather-Based Autonomous Rainwater Irrigation System		
Proj. No.	6047		
Student(s)	Kamila Krawczuk	Grade 11	Town New Britain

Award	1st Place Middle School- For innovation electrical engineering or computer science - \$200 cash		
School	Talcott Mountain Academy	Avon	Lydia Gibb
Project Title	Unsupervised Machine Learning for Text Categorization		
Proj. No.	5539		
Student(s)	Aresh Pourkavoos	Grade 8	Town Avon

Lunch with a Patent Attorney

Award	Lunch with a Patent Attorney		
School	Wilbur Cross High School	New Haven	Charlene Woodland
Project Title	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		
Proj. No.	3013		
Student(s)	Sophie Edelstein	Grade 10	Town New Haven

Maplesoft Awards for Applied Mathematics and Modeling

Award	Maple software - For Excellence in Mathematics		
School	The Hotchkiss School	Lakeville	Richard Kyung
Project Title	A New Fast Algorithm for Finding Eigenvalues in Vibrating Structures		
Proj. No.	6030		
Student(s)	Seouk Jun Kim	Grade 11	Town Lakeville

Award	Maple software - For Excellence in Mathematics		
School	Sacred Heart Academy	Hamden	Elizabeth Christophy
Project Title	Computer-Aided Bleeding Detection in Wireless Capsule Endoscopy Images Using Deep Convolutional Neural Networks		
Proj. No.	6067		
Student(s)	Eunji Lee	Grade 11	Town Trumbull

Meyerand Young Woman Scientist Awards

Award	\$300 cash - High School, Life Sciences		
School	Waterford High School	Waterford	Michael O'Connor
Project Title	The Use of Copepods as a Mosquito Control System		
Proj. No.	3016		
Student(s)	Sophie Wang	Grade 11	Town Waterford

Award	\$300 cash - High School, Physical Sciences		
School	Darien High School	Darien	Mr. Pratt
Project Title	Finding An Efficient Scalable Gray Water Bioremediation Treatment System		
Proj. No.	6072		
Student(s)	Courtney Lowe	Grade 12	Town Darien

Award	\$300 cash - Middle School Life Sciences		
School	St. Timothy Middle School	West Hartford	Danielle Locke
Project Title	Green Tea: A Simple Solution for a Bananas Problem?		
Proj. No.	2022		
Student(s)	Grace Flynn	Grade 7	Town West Hartford

Award	\$300 cash - Middle School, Physical Sciences		
School	Shelton Intermediate School	Shelton	Denise Fix
Project Title	Sneaker Feature		
Proj. No.	5023		
Student(s)	Sofia Gasbarro	Grade 7	Town Shelton

Milton Fisher Science Fair Award for Innovation and Creativity

Award	For Excellence in Creativity and Innovation by a High School student, \$200 cash		
School	Bridgeport Regional Aquaculture Center -	Bridgeport	Kirk Shadle
Project Title	Investigating the Efficacy of Magnesium Nitrate as a Viable Solvent in the Synthesis of 2,5-Dimethylfuran Biofuel		
Proj. No.	6024		
Student(s)	Cole Stearns	Grade 12	Town Fairfield

Award For Excellence in Creativity and Innovation by a Middle School student, \$100 cash

School **Roton Middle School** **Norwalk** **John Skopp**

Project Title What effect does surface temperature have on fingerprints?

Proj. No. **2524**

Student(s) Sarah Signore **Grade** 8 **Town** Norwalk

MIT Club of Hartford K-12 Initiative

Award For excellence in science & technology of energy related research, high school, \$100 cash award

School **Greenwich High School** **Greenwich** **Andrew Bramante**

Project Title Novel Low-Temperature Carbon Capture Using Aqueous Ammonia and Organic Solvents

Proj. No. **6010**

Student(s) Ethan Novek **Grade** 12 **Town** Greenwich

Award For excellence in science & technology of energy related research, middle school, \$100 cash award

School **Christian Heritage School** **Trumbull** **Theresa Miller**

Project Title The fabrication and testing of various fruit juice dye-sensitized solar cells with the addition of preservatives

Proj. No. **5555**

Student(s) Rachel Brooks **Grade** 8 **Town** Trumbull

Mu Alpha Theta

Award Certificate, \$25 Amazon gift card given by CSEF

School **Greater Hartford Academy of Math and** **Windsor** **Dr. Lili Aramli**

Project Title Viability of Cloud-Bacteria Transportation

Proj. No. **3131**

Student(s) Jason Vailionis **Grade** 12 **Town** Rocky Hill

Award Certificate, \$25 Amazon gift card given by CSEF

School **Amity Regional High School** **Woodbridge** **Ms. Day**

Project Title Correlations Between Specific Gut Flora and Different Body Mass Type Changes

Proj. No. **3135**

Student(s) Jacob Feuerstein **Grade** 10 **Town** Woodbridge

Award	Certificate, \$25 Amazon gift card given by CSEF		
School	Greenwich High School	Greenwich	Andrew Bramante
Project Title	Reliably Jammed Disk Packing: A Novel Feature of a Classic Geometry Problem		
Proj. No.	6074		
Student(s)	Steven Ma	Grade 11	Town Greenwich

Mystic Aquarium - Sea Research Foundation

Award	\$100 and 4 Admission Tickets to Mystic Aquarium		
School	Greenwich High School	Greenwich	Mr. Bramante
Project Title	Renewable Energy Generation of a Hybridized Saltwater Electrochemical and Hydrokinetic Energy System		
Proj. No.	6053		
Student(s)	Bennett Hawley	Grade 10	Town Cos Cob

NASA EARTH System Science Award

Award	Certificate and \$25 gift card given by CSEF		
School	Sport and Medical Sciences Academy	Hartford	Christine Demusz
Project Title	Natural Plastic: Milk Plastic Biodegradation vs. Commercial Plastic Degradation		
Proj. No.	5508		
Student(s)	Madison Lee	Grade 8	Town Rocky Hill

Award	Certificate and \$25 gift card given by CSEF		
School	Oei Homeschool	Hebron	Ellen McHugh
Project Title	Developing a Prototype Atmospheric Water Generator System as a Clean, Safe and Sustainable Water Source		
Proj. No.	5537		
Student(s)	John Oei	Grade 8	Town Hebron

Award	Certificate and \$25 gift card given by CSEF		
School	Westside Middle School Academy	Danbury	Mr. Neuhausel
Project Title	Creating an Affordable Homemade Meter to Measure Outdoor Levels of Carbon Dioxide		
Proj. No.	5538		
Student(s)	Nicholas Raslavsky	Grade 8	Town Danbury

National Oceanic and Atmospheric Administration

Award	Certificate and medallion, ,and \$25 Amazon gift card given by CSEF		
School	Worthington Hooker Middle School	New Haven	Douglas Jones
Project Title	Seaweed & Tsunamis		
Proj. No.	1009		
Student(s)	Amelia Cox	Grade 7	Town New Haven
	Sage Urban	Grade 7	Town New Haven

Award	Certificate and medallion, ,and \$25 Amazon gift card given by CSEF		
School	Amity Reg Middle School - Bethany Campus	Bethany	Kevin Berean
Project Title	Using Nanotechnology to Clean Oil Spills		
Proj. No.	4010		
Student(s)	Aannah Malik	Grade 8	Town Woodbridge
	Kathleen Inclima	Grade 8	Town Woodbridge

Award	Certificate and medallion, ,and \$25 Amazon gift card given by CSEFF		
School	Middlebrook Middle School	Wilton	Jessica Garcia
Project Title	A Novel Method for Oil Spill Cleanup Using Biomass		
Proj. No.	2504		
Student(s)	Anika Bhagavatula	Grade 8	Town Wilton

NYUC Pony Club Equine Award

Award	\$100 Cash Award or excellence in field studies		
School	St. Joseph School	Meriden	Tim Coleman
Project Title	Secret Life of Trees on Sweet Birch Dr.		
Proj. No.	2015		
Student(s)	Dylan Gay	Grade 7	Town Meriden

Office of Naval Research- U.S. Navy / U.S. Marine Corps

Award	High School- Certificate, \$75.00 gift certificate given by ONR		
School	Suffield High School	Suffield	Mitchell Charkiewicz
Project Title	Self Defogging Ski Goggles		
Proj. No.	3012		
Student(s)	Ryan Cleaves	Grade 12	Town Canton

Award	High School- Certificate, \$75.00 gift certificate given by ONR		
School	Darien High School	Darien	David Lewis
Project Title	The Role of Rigosertib Treatment in the Expression and Localization of RASSF1 in RASSF1 Transfected Cancer Cells		
Proj. No.	3047		
Student(s)	William Brandon	Grade 12	Town Darien

Award	High School- Certificate, \$75.00 gift certificate given by ONR		
School	Glastonbury High School	Glastonbury	Diane Pintavalle
Project Title	Analysis of Prey Composition in Ninespine Stickleback (<i>Pungitius pungitius</i>) Infected With Cestode Parasite (<i>Schistocephalus pungitii</i>)		
Proj. No.	3083		
Student(s)	Mitchell Johnson	Grade 11	Town Glastonbury

Award	High School- Certificate, \$75.00 gift certificate given by ONR		
School	Greenwich High School	Greenwich	Andrew Bramante
Project Title	Development of a CNT/ZnO/TiO ₂ membrane for visible-light induced photocatalytic filtration of water-borne organic and bacterial pollutants		
Proj. No.	6015		
Student(s)	Michelle Xiong	Grade 11	Town Riverside

Award	High School- Certificate, \$75.00 gift certificate given by ONR		
School	Shelton High School	Shelton	Christine McNamara
Project Title	Biodegradable Plastic Study to Prevent Oceanic Pollution		
Proj. No.	6023		
Student(s)	Marissa Peck	Grade 12	Town Shelton

Award High School- Certificate, \$75.00 gift certificate given by ONR

School **Bridgeport Regional Aquaculture Center - Bridgeport** **Kirk Shadle**

Project Title Investigating the Efficacy of Magnesium Nitrate as a Viable Solvent in the Synthesis of 2,5-Dimethylfuran Biofuel

Proj. No. **6024**

Student(s) Cole Stearns **Grade** 12 **Town** Fairfield

Award Middle School- Certificate, \$25 gift card given by CSEF

School **St. Rose of Lima School Newtown** **John Dalton**

Project Title The Effect of Petroleum Products on the Growth of Ramshorn Snails (Planorbis Rebrum)

Proj. No. **2001**

Student(s) Gregory Gargano **Grade** 7 **Town** Sandy Hook

Award Middle School- Certificate, \$25 gift card given by CSEF

School **St. Joseph School Danbury** **Ms. Jabbour**

Project Title The Effects of X-ray Radiation on Yeast

Proj. No. **2007**

Student(s) Conor O'Keefe **Grade** 7 **Town** Danbury

Award Middle School- Certificate, \$25 gift card given by CSEF

School **St. Rose of Lima School Newtown** **John Dalton**

Project Title THE INVESTIGATION OF ACIDITY ON ZEBRA MUSSEL SHELLS
DRIESSENA POLYMORPHA

Proj. No. **2028**

Student(s) Katerina Crowe **Grade** 7 **Town** Southbury

Award Middle School- Certificate, \$25 gift card given by CSEF

School **Engineering Science University Magnet New Haven** **Roger Rushworth**

Project Title How do Different Types of Street Lights Impact Our Environment and What is the Safest Way to Illuminate Our Streets?

Proj. No. **2510**

Student(s) Eva Heaphy **Grade** 8 **Town** New Haven

Award Middle School- Certificate, \$25 gift card given by CSEF

School **St. Joseph School Meriden** **Mr. Coleman**

Project Title What water bottle brand will keep water the coolest.

Proj. No. **5512**

Student(s) Khalia Hunt **Grade** 8 **Town** Meriden

Award	Middle School- Certificate, \$25 gift card given by CSEF		
School	Amity Reg Middle School - Bethany Campus	Bethany	Kevin Berean
Project Title	Extinguish-Bot		
Proj. No.	5519		
Student(s)	Weiss Yuan	Grade 8	Town Woodbridge

Otero Family Award

Award	The Otero Family Award; \$200 cash		
School	Wilbur Cross High School	New Haven	Charlene Woodland
Project Title	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		
Proj. No.	3013		
Student(s)	Sophie Edelstein	Grade 10	Town New Haven

Project Oceanology

Award	Junior-Identification guide, t-shirt, 1 week residential summer camp		
School	Bi-Cultural Day School	Stamford	Christopher Graseck
Project Title	An Analysis of Nitrogen and Phosphate Fertilizer on Algae Growth		
Proj. No.	2025		
Student(s)	Anna Lichtenberg	Grade 7	Town Stamford

Award	Senior-Identification guide, t-shirt, 1 week residential summer camp		
School	Greenwich High School	Greenwich	Andrew Bramante
Project Title	Crowd-Sourced Detection and Mapping of Nitrate Water Pollutants via a Mobile Web-Based Image Analysis System		
Proj. No.	3032		
Student(s)	Luca Barcelo	Grade 11	Town Old Greenwich

Ricoh Americas Corporation

Award	Certificate, \$25 Amazon gift card given by CSEF		
School	St. Michael School	Pawcatuck	Mrs. Anna-Helene Grossomanides
Project Title	Hydroponics - A World Without Dirt		
Proj. No.	2018		
Student(s)	Anne Drago	Grade 7	Town Pawcatuck

Award Certificate, \$25 Amazon gift card given by CSEF

School Middlebrook Middle School

Wilton

Jessica Garcia

Project Title A Novel Method for Oil Spill Cleanup Using Biomass

Proj. No. 2504

Student(s) Anika Bhagavatula

Grade 8

Town Wilton

Award Certificate, \$25 Amazon gift card given by CSEF

School Amity Reg Middle School - Bethany Campus

Bethany

Kevin Berean

Project Title Extinguish-Bot

Proj. No. 5519

Student(s) Weiss Yuan

Grade 8

Town Woodbridge

Schoepfer Award for Excellence in Local Aquatic Science

Award For excellence in a local water quality study, \$100 cash

School Bi-Cultural Day School

Stamford

Christopher Graseck

Project Title Is "non-toxic" dish detergent safe for the environment?

Proj. No. 1002

Student(s) Brandon King

Grade 7

Town Stamford

Ori Divon

Grade 7

Town Stamford

Sister Mary Christine Life Sciences Award

Award \$100 for excellence in the life sciences by a catholic middle school project

School Greenwich Catholic School

Greenwich

Mrs. Carol Lutz

Project Title BITE BRIGHT a Natural Tooth Paste

Proj. No. 2012

Student(s) Monica Marino

Grade 7

Town Riverside

Award \$150 for excellence in the life sciences by a catholic high school project

School Sacred Heart Academy

Hamden

Mrs. Susan Nelson

Project Title Heat from Global Warming Affecting Bioluminescence in Pyrocystis fusiformis

Proj. No. 3108

Student(s) Julianna Milidantri

Grade 9

Town Durham

Society for In Vitro Biology

Award Certificate and \$25 Amazon gift card given by CSEF

School **Greater Hartford Academy of Math and Windsor** **Dr. Lili Aramlli**

Project Title The Effect of Collect Nutrient Powder on Mus Musculus Lewis Lung Carcinoma Cell Confluence, Viability and Growth Rate

Proj. No. **3002**

Student(s) Marissa Guzzo **Grade 11** **Town Suffield**

Award Certificate and \$25 Amazon gift card given by CSEF

School **Greenwich High School** **Greenwich** **Andrew Bramante**

Project Title PDE-4 Inhibitor-Assisted Antibiotic Suppression of Borrelia Biofilm Growth for Treatment of Chronic Lyme

Proj. No. **3125**

Student(s) Sophia Chow **Grade 11** **Town Old Greenwich**

Award Certificate and \$25 Amazon gift card given by CSEF

School **Sacred Heart Academy** **Hamden** **Dr. Sibani Sengupta**

Project Title Adherence Rates of Escherichia coli to Mono-filament, Multi-filament, and Barbed Sutures

Proj. No. **3142**

Student(s) Adalyn Schommer **Grade 9** **Town Cheshire**

Society of Women Engineers - Hartford Section

Award Scientific Calculator

School **Fields Memorial School** **Bozrah** **Mrs. Brown**

Project Title Environmental Monitoring System for Dog Safety

Proj. No. **5004**

Student(s) Morgan Tainter **Grade 7** **Town Gilman**

Award Scientific Calculator

School **Irving A. Robbins Middle School** **Farmington** **Kerry Visone**

Project Title Making concrete more energy efficient and lightweight.

Proj. No. **5530**

Student(s) Angela Sadlowski **Grade 8** **Town Unionville**

Award	Scientific Calculator		
School	Oei Homeschool	Hebron	Ellen McHugh
Project Title	Developing a Prototype Atmospheric Water Generator System as a Clean, Safe and Sustainable Water Source		
Proj. No.	5537		
Student(s)	John Oei	Grade 8	Town Hebron

Award	Scientific Calculator		
School	Greenwich High School	Greenwich	Andrew Bramante
Project Title	Development of a CNT/ZnO/TiO ₂ membrane for visible-light induced photocatalytic filtration of water-borne organic and bacterial pollutants		
Proj. No.	6015		
Student(s)	Michelle Xiong	Grade 11	Town Riverside

Southeastern New England Marine Educators

Award	Outstanding project in aquatic Science \$100 award and membership in SENEME -		
School	High Horizons Magnet School	Bridgeport	Portia Scott-Thiam
Project Title	Hydroponics vs. Fogponics		
Proj. No.	2513		
Student(s)	Rebecca Abirached	Grade 8	Town Bridgeport

Award	Outstanding project in aquatic Science \$100 award and membership in SENEME -		
School	St. Paul Catholic High School	Bristol	Mr. Aliberti
Project Title	A Weather-Based Autonomous Rainwater Irrigation System		
Proj. No.	6047		
Student(s)	Kamila Krawczuk	Grade 11	Town New Britain

Stanley Lessoff Award for Excellence In Analytical Technique

Award	\$100 Cash and Plaque		
School	St. Gregory the Great School	Danbury	Mrs.Christine Fahey
Project Title	Wind Energy? I'm a Big Fan!		
Proj. No.	5003		
Student(s)	Anna Flaherty	Grade 7	Town New Fairfield

Stockholm Junior Water Prize

Award Certificate, \$25 gift card to Amazon given by CSEF, possible advance to further competition

School Brunswick School Greenwich Dana Montanez

Project Title An Investigation of Natural Alternatives to Chlorine When Treating Microbial-Contaminated Water

Proj. No. 3015

Student(s) Asher Porphy Grade 10 Town Harrison

Award Certificate, \$25 gift card to Amazon given by CSEF, possible advance to further competition

School Greenwich High School Greenwich Andrew Bramante

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

Proj. No. 6015

Student(s) Michelle Xiong Grade 11 Town Riverside

Talcott Mountain Science Center & Academy

Award Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Life Science

School Park City Prep Charter School Bridgeport Mr. Jonathan Jaekle

Project Title Larva -B-Gone: A Safer Way To Eliminate The Threat of Zika and Other Mosquito Borne Diseases

Proj. No. 2542

Student(s) Antonios Boudreau Grade 8 Town Ansonia

Award Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Phys Science

School Fields Memorial School Bozrah Mrs. E. Brown

Project Title Orb Characteristics and Containment

Proj. No. 5008

Student(s) Elijah Ramthun Grade 7 Town Bozrah

The Children's Museum

Award 1 family 4-Pack of Admission Passes to the Children's Museum

School Fields Memorial School Bozrah Mrs. Brown

Project Title Building Tesla Coils

Proj. No. 5001

Student(s) Lucas Santo Grade 7 Town Bozrah

The Connecticut Technology Council Young Woman Innovation Award

Award	\$150 Cash Award for Technological Innovation		
School	Greenwich High School	Greenwich	Mr. Andrew Bramante
Project Title	A Novel N-Doped Carbon Nanotube/Copper Electrode for the Reduction of CO2 to Biofuel		
Proj. No.	6033		
Student(s)	Michelle Woo	Grade 11	Town Riverside

The Goodwin-Niering Center for the Environment

Award	\$100 for "Excellence in Environmental Conservation Studies"		
School	Science and Technology Magnet HS	New London	Charles Mulligan
Project Title	Effectiveness of American Beach Grass Restoration		
Proj. No.	3081		
Student(s)	Tessa Rock	Grade 11	Town New London

The Karen J. Howell Middle School Award for "Learning and Serving"

Award	The Karen J. Howell Middle School Award for "Learning and Serving" - \$1000		
School	Amity Reg Middle School - Bethany Campus	Bethany	Kevin Berean
Project Title	Vision Shoe		
Proj. No.	5559		
Student(s)	Shyam Viswanathan	Grade 8	Town Woodbridge

TurnKey Compliance Solutions Environmental Awards

Award	\$200 Cash Award Middle School- For excellence in environmental sciences		
School	Amity Reg Middle School - Bethany Campus	Bethany	Kevin Berean
Project Title	The Clean Drain		
Proj. No.	4025		
Student(s)	William Livesay	Grade 8	Town Woodbridge
	Joshua Feuerstein	Grade 8	Town Woodbridge
	Arnav Paliwal	Grade 8	Town Woodbridge

Award \$300 Cash Award High School- For excellence in environmental sciences

School **Greenwich High School** **Greenwich** **Andrew Bramante**

Project Title Application of flexible PVDF nanofibrous membrane coated carbon fiber filter for tunable low cost solvent recycling

Proj. No. **6040**

Student(s) Alex Araki **Grade** 11 **Town** Greenwich

U.S. Air Force

Award Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate

School **St. Mark School** **Stratford** **Ms. Lynn Olins**

Project Title "Watts" the efficiency of solar cells?

Proj. No. **2005**

Student(s) Kaitlyn Szczepanski **Grade** 7 **Town** Stratford

Award Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate

School **Weston Middle School** **Weston** **Darcy Ronan**

Project Title Homemade RC Plane

Proj. No. **2516**

Student(s) Matthew Krauss **Grade** 8 **Town** Weston

Award Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate

School **Multicultural Magnet School** **Bridgeport** **Ms. Ciuflea**

Project Title Natural Power

Proj. No. **5032**

Student(s) John Paul Atehortua **Grade** 7 **Town** Bridgeport

Award Laptop backpack, ear buds, 1 GB flash drive, 4 Port USB hub, certificate

School **Hamden Middle School** **Hamden** **Michelle DeLucia**

Project Title Constructing a CoreXY Dual Extrusion Fused Filament Fabrication Apparatus

Proj. No. **5545**

Student(s) Conner Larocque **Grade** 8 **Town** Hamden

U.S. Metric Association

Award Certificate & \$25 Amazon gift card given by CSEF

School **Greens Farms Academy** **Greens Farms** **Mathieu Freeman**

Project Title Anticorrosive Coatings on AZ31 Magnesium Alloy to Reduce Degradation Rate for Metallic Medical Implants

Proj. No. **3113**

Student(s) Anish Kosanam **Grade** 12 **Town** Stamford

Award Certificate & \$25 Amazon gift card given by CSEF

School **Bridgeport Regional Aquaculture Center -** **Bridgeport** **Kirk Shadle**

Project Title Investigating the Efficacy of Magnesium Nitrate as a Viable Solvent in the Synthesis of 2,5-Dimethylfuran Biofuel

Proj. No. **6024**

Student(s) Cole Stearns **Grade** 12 **Town** Fairfield

Award Certificate & \$25 Amazon gift card given by CSEF

School **Fairfield College Preparatory School** **Fairfield** **Deborah Kiel**

Project Title The Application of Object Tracking in Surgery Robotics

Proj. No. **6054**

Student(s) Hanxuan Mo **Grade** 12 **Town** Fairfield

Unilever Trumbull R&D

Award Shadow Day at Unilever Trumbull R&D Centre

School **Westside Middle School Academy** **Danbury** **Jonathan Neuhausel**

Project Title The Effects of Different Flours on the Breaking Point and Decomposition Rate of an Edible Spoon.

Proj. No. **5531**

Student(s) Sahana Chinthak **Grade** 8 **Town** Danbury

Award Shadow Day at Unilever Trumbull R&D Centre

School **Academy of Aerospace and Engineering** **Windsor** **Dr. Michelle Bellinger**

Project Title The effect of adding a second polymer to polyethylene terephthalate on the mechanical properties and morphology of the polymer blend systems

Proj. No. **6019**

Student(s) Nikhil Bhat **Grade** 12 **Town** Rocky Hill

University of Connecticut - Physics Department

Award	UCONN Early College Experience Program: Life Sciences - Co-Op \$100 Gift Certificate		
School	St. Michael School	Pawcatuck	Mrs. Anna-Helene Grossomanides
Project Title	Hydroponics - A World Without Dirt		
Proj. No.	2018		
Student(s)	Anne Drago	Grade 7	Town Pawcatuck

Award	UCONN Early College Experience Program: Physical Sciences - Co-Op \$100 Gift Certificat		
School	Bridgeport Regional Aquaculture Center	Bridgeport	Krik Shadle
Project Title	The Application of Ferrofluid paired with Neodymium Rare Earth Magnets to Reduce Friction.		
Proj. No.	6038		
Student(s)	Paul Santandrea	Grade 12	Town Fairfield

University of Connecticut Academic Excellence Scholarship

Award	Academic Excellence Scholarship - \$6,500 a year for four academic years- (\$26,000 total)		
School	Waterford High School	Waterford	Michael O'Connor
Project Title	The Use of Copepods as a Mosquito Control System		
Proj. No.	3016		
Student(s)	Sophie Wang	Grade 11	Town Waterford

University of New Haven High School Awards in Engineering & Science

Award	\$100 For High School Project in Engineering: Electrical		
School	Bruder Homeschool	New Haven	John Bruder
Project Title	Design, build, and code a cellular/WiFi enabled smart thermostat using a microcontroller and a custom Android app to increase energy efficiency for homes and workplaces.		
Proj. No.	6051		
Student(s)	Ben Bruder	Grade 10	Town New Haven

Award	\$100 For High School Project in Biochemistry		
School	Wilbur Cross High School	New Haven	Charlene Woodland
Project Title	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		
Proj. No.	3013		
Student(s)	Sophie Edelstein	Grade 10	Town New Haven

Award \$100 For High School Project in Cell and Molecular Biology

School **Greenwich High School** **Greenwich** **Mr. Bramante**

Project Title Targeted Anticancer Properties of Honey Bee Melittin via Cell Surface Lipid Disruption

Proj. No. **3117**

Student(s) Dante Grace Minichetti **Grade** 11 **Town** Greenwich

Award \$100 For High School Project in Chemistry

School **Greenwich High School** **Greenwich** **Andy Bramante**

Project Title Carbon Capture and Storage via Silver Nanoparticle Catalyzed Hydration of Carbon Dioxide

Proj. No. **6063**

Student(s) Agustina Stefani **Grade** 12 **Town** Greenwich

Award \$100 For High School Project in Computer Science

School **Greenwich High School** **Greenwich** **Andrew Bramante**

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

Proj. No. **3086**

Student(s) Shobhita Sundaram **Grade** 11 **Town** Greenwich

Award \$100 For High School Project in Energy & Transportation

School **Madina Academy** **Windsor** **Saqib Chariwala**

Project Title Converting Grass into Cellulosic Ethanol to Generate Energy as a Heating System

Proj. No. **6516**

Student(s) Radeyah Ahmed **Grade** 10 **Town** Bloomfield

Jareen Choudhury **Grade** 11 **Town** Bloomfield

Award \$100 For High School Project in Engineering: Mechanical

School **Shelton High School** **Shelton** **Dr. Rivera**

Project Title Cycling Assisted Brake

Proj. No. **6046**

Student(s) Kyle Young **Grade** 9 **Town** Shelton

Award \$100 For High School Project in Environmental Science

School **Darien High School** **Darien** **Mr. Pratt**

Project Title Finding An Efficient Scalable Gray Water Bioremediation Treatment System

Proj. No. **6072**

Student(s) Courtney Lowe **Grade** 12 **Town** Darien

Award \$100 For High School Project in Mathematics

School **Greenwich High School** **Greenwich** **Andrew Bramante**

Project Title Reliably Jammed Disk Packing: A Novel Feature of a Classic Geometry Problem

Proj. No. **6074**

Student(s) Steven Ma **Grade** 11 **Town** Greenwich

Award \$100 For High School Project in Microbiology

School **Wilbur Cross High School** **New Haven** **Prof. Joshua Gendron**

Project Title A study of circadian genetics and abiotic stress towards sustainable agriculture

Proj. No. **3151**

Student(s) Maya Geradi **Grade** 11 **Town** New Haven

Award \$100 For High School Project in Sustainability

School **Platt Technical High School** **Milford** **Mrs. Hart**

Project Title Project W- Domestic water recovery system

Proj. No. **6522**

Student(s) Christian Haupt **Grade** 10 **Town** West Haven

Christian Ramos **Grade** 10 **Town** Stratford

Urban School Challenge 1st Place Middle School Awards

Award Highest Placing 8th grader- GENIUS-Olympiad Competition -\$500 travel stipend

School **Sport and Medical Sciences Academy** **Hartford** **Christine Demusz**

Project Title Natural Plastic: Milk Plastic Biodegradation vs. Commercial Plastic Degradation

Proj. No. **5508**

Student(s) Madison Lee **Grade** 8 **Town** Rocky Hill

Award USC Highest Placing 7th grader- Project Oceanology's Ocean Camp

School **Westside Middle School Academy** **Danbury** **Mr. Neuhausel**

Project Title A study on soil product following bio degradation of Styrofoam by tenebrio

Proj. No. **5025**

Student(s) Cassandra Plank Pinho **Grade** 7 **Town** Danbury

Wisner Award

Award	\$250 cash and plaque		
School	Fields Memorial School	Bozrah	Mrs. Brown
Project Title	Building Tesla Coils		
Proj. No.	5001		
Student(s)	Lucas Santo	Grade 7	Town Bozrah

Yale Peabody Museum

Award	Family "six-pack" of free passes to the Yale Peabody Museum		
School	Engineering Science University Magnet	New Haven	Roger Rushworth
Project Title	How do Different Types of Street Lights Impact Our Environment and What is the Safest Way to Illuminate Our Streets?		
Proj. No.	2510		
Student(s)	Eva Heaphy	Grade 8	Town New Haven

Award	Family "six-pack" of free passes to the Yale Peabody Museum		
School	Environmental Sciences Magnet School at	Hartford	Rebecca Hays
Project Title	The Effects of Food on Breeding Xiphophorus Helleirii		
Proj. No.	2534		
Student(s)	Natalie Reeves	Grade 8	Town Southington

Award	Family "six-pack" of free passes to the Yale Peabody Museum		
School	Bridgeport Regional Aquaculture Center	Bridgeport	Kirk Shadle
Project Title	Predicting the Genomic Pathways of Adaptation In Spartina alterniflora Salt Tolerance Proteins LSD1, EDS1, and PAD4 in Response to Sea Level Rises Via Phylogenetic Trees		
Proj. No.	3068		
Student(s)	Amanda Hernandez	Grade 12	Town Bridgeport

Award	Family "six-pack" of free passes to the Yale Peabody Museum		
School	Science and Technology Magnet HS	New London	Charles Mulligan
Project Title	Effectiveness of American Beach Grass Restoration		
Proj. No.	3081		
Student(s)	Tessa Rock	Grade 11	Town New London

Award	Family "six-pack" of free passes to the Yale Peabody Museum		
School	Sacred Heart Academy	Hamden	Mrs. Susan Nelson
Project Title	Heat from Global Warming Affecting Bioluminescence in <i>Pyrocystis fusiformis</i>		
Proj. No.	3108		
Student(s)	Julianna Milidantri	Grade 9	Town Durham

Award	One-Year Family Membership to the Yale Peabody Museum		
School	Talcott Mountain Academy	Avon	Ms. Finlayson
Project Title	The Effects Of Weather On Warblers in Pomfret Ct		
Proj. No.	2029		
Student(s)	Connor Farquhar	Grade 7	Town West Hartford

Award	One-Year Family Membership to the Yale Peabody Museum		
School	Glastonbury High School	Glastonbury	Diane Pintavalle
Project Title	Analysis of Prey Composition in Ninespine Stickleback (<i>Pungitius pungitius</i>) Infected With Cestode Parasite (<i>Schistocephalus pungitii</i>)		
Proj. No.	3083		
Student(s)	Mitchell Johnson	Grade 11	Town Glastonbury

Yale Science & Engineering Association, Inc.

Award	Certificate, \$25 gift card to Amazon given by CSEF		
School	Brunswick School	Greenwich	Dana Montanez
Project Title	Flow Rate vs. Hydroelectric Kilowatts Produced: A novel approach using Pelton wheels and land-based turbines in an effort to preserve surrounding ecosystems		
Proj. No.	6083		
Student(s)	Edward Camel	Grade 11	Town Greenwich

Zepke Award

Award	\$200 - For the Best Use of Electronic Circuitry		
School	Bruder Homeschool	New Haven	John Bruder
Project Title	Design, build, and code a cellular/WiFi enabled smart thermostat using a microcontroller and a custom Android app to increase energy efficiency for homes and workplaces.		
Proj. No.	6051		
Student(s)	Ben Bruder	Grade 10	Town New Haven