

[SchTown]

# Connecticut Science & Engineering Fair Quinnipiac University March 4 - 16, 2024

[Teacher]

[Project Title]

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

#### **Awards Legend**

Honors = 1st, 2nd, or 3rd honors (Projects with 1st honors are Finalists in Life or Physical Science)

#### Special Award Winners

[School]

[Proj#] [FCat] [Honors]

Avon Avon High School John Salerni 3508 LST Defining the Significance of Inflammation in Atherosclerosis by Examining Cross-Cohort Transcriptomics Using R and Deep Learning Programs Student(s) Phydena Liu Grade 10 Town Avon Lauren Zhang Grade 11 Town Darien \* CSEF Board of Directors Award --- Certificate and \$200 given by CSF Avon Talcott Mountain Academy John Pellino P7 The Aura Project: Landing Rockets at a Model Scale 5009 Kwabena Addai - Boateng Grade 8 Town East Hartford \* U.S. Air Force --- Certificate & USAF Merchandise Package \* Christopher T. Borowiec Excellence in Innovation Awards --- \$100 Cash for Excellence in Planetary Science **Avon** Talcott Mountain Academy John Pellino The Boreabrush 2520 L8 Student(s) Oliver Lind Grade 8 Town Harwinton \* Lemelson Early Inventor Award --- Certificate & \$100 cash award from Lemelson Foundation **Bridgeport** Blackham School Nancy Hovanec PT Hovercraft The New Transportation 4002 Student(s) Sebastian Suarez Grade 7 Town Bridgeport **Javden Perez** Town Bridgeport Grade 7 \* U.S. Air Force --- Certificate & USAF Merchandise Paskage **Bridgeport** Bridgeport Regional Aquaculture Center Kirk Shadle 3015 LS Non-Thermal Induction of Heat Shock Protein 90 to Mitigate Early Oncogenesis With Preserved HSR Student(s) Chloe Atkins Town Stratford Grade 12 \* University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Life Sciences -Co-Op \$100 Gift Certificate Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle 6060 Magnetohydrodynamic (MHD) Salt Water Generator: Harnessing energy from flowing salt water without moving parts Student(s) Samuel DiVasto Grade 12 Town Trumbull \* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- HS School- Certificate, \$75.00 gift card given by ONR

Sponsor(s)

Award(s)

[SchTown] [Proj#] [F0	[School] Cat] [Honors]	[Teacher] [Project Title]	Sponsor(s)	Award(s)			
Bridgeport	Bridgeport Region	nal Aquaculture Center	r Kirk Shadle				
6070 F	PS 2	Synthesis of Conduc	tive Optical Lenses v	vith Variable Refract	tive Indi	ces: The Kerr Effec	t
	Student	(s) Cole Galla		Grade 12	Town	Trumbull	
		earch- U.S. Navy / U.S ation of Physics Teach			ate, \$75.	.00 gift card given b	by ONR
Bridgeport	Bridgeport Region	nal Aquaculture Center	r Kirk Shadle				
3077 L	.S 1	Utilizing Fucus distic	hus alginates to deve	elop an enhanced a	erosol tre	eatment for Cystic	Fibrosis
	Student	(s) Mia Nierenberg		Grade 12	Town	Stratford	
* J	.A. Augustine and	H. Glista Awards	\$100 for excellence i	n Life Sciences			
Bridgeport	Bridgeport Region	nal Aquaculture Center	r Kirk Shadle				
3134 L	.S 2	Acoustic Noise Pollu	tion Affecting Reproc	luction, Communica	tion, and	d Behavior of Brine	Shrimp
	Student	(s) Anne Taylor		Grade 12	Town	Fairfield	
		Performing Arts Fications, if possible	Pair of Tickets to Illun	ninate Dance - for to	p projec	ct involving technol	ogy and
Bridgeport	Fairchild Wheeler	Biotechnology Cyntl	hia Crudale				
3069 L	.S 2	Shoots vs. Roots: Th	e Effect of Hormone	Treated Media on L	ettuce (	Growth	
	Student	(s) Naomi Rosen		Grade 12	Town	Fairfield	
* 1	nstitute of Food Te	chnologists, Nutmeg S	Section \$50 awar	d + invitation to Awa	ards Nig	ht Dinner with gues	st
Bridgeport	Fairchild Wheeler	Biotechnology Maril	yn Carolina				
3520 L	ST 2	Testing the Efficacy of River in CT	of Biochar Source Ma	aterials in Filtering F	leavy M	etal Pollution from	the Housatonic
	Student	(s) Angeline Tran		Grade 12	Town	Shelton	
		Phi Uanino		Grade 12	Town	Shelton	
* (	SEF Board of Dire	ectors Award Certi	ficate and \$200 give	n by CSF			
Bridgeport	Waltersville School	ol John Cunningham	1				
4008 F	PT 2	Does Municipal/Hous	sehold Infrastructure	Affect the Quality of	Drinkin	g Water in Bridgep	ort, CT?
	Student	(s) Andrea Villatoro	•	Grade 7	Town	Bridgeport	
		Genesis Reilly		Grade 7	Town	Bridgeport	
	Aquarion Water Co Management	mpany 2nd. \$100.	00 Cash - Grade 7-8	For Excellence in V	Vater Qı	uality or Environme	ental
Bristol St. I	Matthew School	Danielle Persichetti					
5004 F	P7 2	Which Drink Has the	Most Electrolytes?				
	Student	(s) Lily Chou		Grade 7	Town	Bristol	
		Memorial Awards ( male students - \$100	Creative or innovative	e project in engineer	ing, con	nputer science or	

[SchTown] [Proj#] [FCat]	[School] [Honors] [I	[Teacher] Project Title]	Sponsor(s)	Award(s)		
Bristol St. Mattl	hew School Dar	nielle Persichetti				
2002 L7	1 W	hich Moisturizer is E	Best?			
	Student(s)	Lauren Gillis		Grade 7	Town	Bristol
* Therr for s	no Fisher Scientif elected top MS w	ic Junior Innovators inners	Challenge Nomi	nation to compete	in the T	hermo Fisher Scientific JIC
Brookfield Broo	okfield High Schoo	ol JonathanNeuha	usel			
6077 PS	3 G	eoCool: A Novel Ap	proach to Sustainable	e Residential Cool	ing Usin	g Underground Soil Temperatures
	Student(s)	Arjun Parimi		Grade 11	Town	Brookfield
* Unive year	ersity of New Have ) for exemplary 1	en Scholarship Awa 1th grade project	rds University of	New Haven 4 yea	r scholar	rship - \$96,000 (\$24,000 per
Cheshire Chesh	hire High School	Julie Barker				
6045 PS		Torticollis Tilt Alertii sing Flutter	ng Device using MPU	16050 Sensor, Vibr	ration mo	otor, and iOS and Android App Built
	Student(s)	Suchita Srinivasa	an	Grade 10	Town	Cheshire
Cheshire Dodd	Middle School	Katie Kearney	ith a Patent Attorney	doning		
5509 P8		•	nable solution for gar	-		0
	Student(s)	Olivia Dixon		Grade 8	Town	Cheshire
* Conn		Convention "Next S	t (USAID) Certific tep Inventors" Ne			n by CSEF Invitation to compete at the
<b>Danbury</b> Wests	ide Middle Schoo	l Academy Nancy	Barlow			
1025 LT	1 Th	ne Effect of Differen	t Types of Grass on S	Soil Erosion		
	Student(s)	Sayam Dand		Grade 8	Town	Danbury
		Kylie Capone		Grade 8	Town	Danbury
		Ayme Calero		Grade 8	Town	danbury
* Geold	ogy/Historic Proje	ct of Merit Award	- \$150 or 3 x \$50 - E	arth Science - Fie	ld work \	with Geologic or historic value
<b>Danbury</b> Wests	ide Middle Schoo	l Academy Nancy	Barlow			
4007 PT	1 Th	ne Effectiveness of I	Different Distillation N	lethods for Desalir	nation	
	Student(s)	Siddanth Ramak	rishnan	Grade 7	Town	Danbury
		Patrick Madden		Grade 7	Town	Danbury
* Freer						\$25 gift card given by CSEF or Chemical Engineering -

[SchTown]	[School]	[Teacher]				
[Proj#] [FCat]	[Honors] [F	Project Title]	Sponsor(s)	Award(s)		
<b>Danbury</b> Wests	side Middle Schoo	I Academy Nancy E	Barlow			
4012 PT	2 Bu	ilding a Versatile Air	Sensor That Can I	Detect PM10 & PM2	2.5 in the Air	
	Student(s)	Sarvesh Ram Sank	arnarayan	Grade 8	Town Danbury	
	Gabrielle Anderson				Town Danbury	
		Eleftherios Amper	dis	Grade 8	Town Danbury, Ct	
* The ( \ * Conr	Community Found Urban Public Scho	ol Environmental / Er Convention "Next Ste	v Haven Ecology, I nergy Award - \$25	Environmental, and <i>i</i> 60	I Alternative Energy Resea ophy & Invitation to comp	
Darien Darien H	High School Chr	istine Leventhal				
6082 PS	Sii	mulating CMB tempe	rature signal to an	alyze the effects of r	noise	
	Student(s)	Bo-Jun Qin		Grade 12	Town Darien	
* Conr	necticut College-Pl	nysics, Astronomy, &	Geophysics Dept.	Senior Award:	Certificate, \$100 Cash	
Darien Darien I	High School Guy	Pratt				
6064 PS	3 Ar	n Investigation of Stor 200 AD In Southwest	ne Reusual Constr ern United States	uction Techniques U Based on Stone Len	Jsed in the Anasazi Comn ngth-Width Ratios	nunity From 800
	Student(s)	Evelyn Trudel		Grade 12	Town Darien	
Arch	nitecture Foundation	on, William M. Mack,	. Mack, AIA Award AIA Award for Inno	I \$250 Amazon ovation in Building S	Gift Ccard from the Conneustainability.	ecticut
6074 PS		eveloping an Adaptab	le Metal Casting N	-		
	Student(s)	Thomas Gerlach		Grade 9	Town Ellington	
* Office	e of Naval Resear	ch- U.S. Navy / U.S.	Marine Corps	HS School- Certifica	te, \$75.00 gift card given	by ONR
Enfield Chiarav	valle Academy T	im Coleman				
4022 PT	2 Us	sing Solar to Generat	e Electricity.			
	Student(s)	Keenan Cieslak		Grade 8	Town Monson	
		Beau Dugas		Grade 8	Town Enfield	
		Michael Bielanski		Grade 8	Town Enfield	
* IEEE	., Connecticut Sec	tion \$100 Honora	ble Mention			
Enfield Chiaray	valle Academy T	imothy Coleman				
1026 LT	1 Ho	ow Does Different Typ	oes of Food Affect	A Chicks' Growth ar	nd Learning Ability?	
	Student(s)	Zoha Shamsi		Grade 7	Town Suffield	
		Leah Caswell		Grade 7	Town Enfield	
		Marin Czerwiec		Grade 7	Town Agawam	
* U.S.	Agency for Interna	ational Development	USAID) Certif	icate and \$25 gift ca	ard given by CSEF	

#### Special Award Winners

[SchTown] [School] [Teacher] [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s) Farmington Farmington High School Alexandra Raymunt Steeping Towards Safety: Addressing Mycotoxin Risks in Coffee and Tea Student(s) Rhea Doshi Grade 9 Town Farmington \* Institute of Food Technologists, Nutmeg Section --- \$150 award + invitation to Awards Night Dinner with guest Farmington Farmington High School Alexandra Raymunt 3511 LST The impact of different levels of spf on the pigmentation of one's skin Student(s) Lauren Jeong Town Farmington Grade 11 Lydia Kim Grade 11 Town Farmington \* CSEF Board of Directors Award --- Certificate and \$200 given by CSF Farmington Farmington High School Alexandra Raymunt Origami-Inspired Paper-Based Multiplex Device for Water Contamination Monitoring 6068 PS Grade 11 Town Farmington \* ISA - International Society for Automation - Ct. Valley Section --- 1st - \$125 award \* Southeastern New England Marine Educators (SENEME) --- \$100 award and membership for student and teacher in SENEME - 1st Place Senior \* Aquarion Water Company --- 3rd \$100.00 Cash - Grade 9-12 For Excellence in Water Quality or Environment Management \* University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$96,000 (\$24,000 per vear) for exemplary 11th grade project Greenwich Brunswick School Dana Montanez Inertial Navigation Control System: Use of Reaction Wheels as an in-flight Steering Mechanism for 6015 PS Rockets Student(s) Thomas Armstrong Town Greenwich Grade 11 \* Yale Science & Engineering Association, Inc. --- 1 Certificate, Medallion and 1- \$25 gift card given by CSEF \* U.S. Air Force --- Certificate & USAF Merchandise Package \* American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate \* Astronomical Society of Greater Hartford - The Charles Hammond Award for Excellence in Astronomy --- Senior Project-\$150, subscription to Sky and Telescope, ASGH membership and meeting invitation **Greenwich** Brunswick School Dana Montanez 6522 PST The Efficiency of Toroidal Propellers on Plane Engines and Boat Propellers Student(s) Thomas Carney Grade 10 Town New Canaan **Pierce Crosby** Grade 10 Town Greenwich \* Vanderbilt Chemicals, LLC --- \$150 Vanderbilt Chemicals Award for Excellence in Tribology and Sustainable Lubrication \* ISA - International Society for Automation - Ct. Valley Section --- 3rd - \$50 award **Greenwich** Brunswick School Dana Montanez Using Mineral Packed Liposomes to Increase Plant Growth in Arid Environments 3507 LST Student(s) Henry Johnson Grade 11 Town Riverside **Tucker Spiess** Grade 11 Town Old Greenwich \* Institute of Food Technologists, Nutmeg Section --- \$100 award + invitation to Awards Night Dinner with guest

#### Special Award Winners

[SchTown] [School] [Teacher] [Proj#] [FCat] [Honors] Award(s) [Project Title] Sponsor(s) **Greenwich** Brunswick School Dana Montanez 6510 PST Biodegradable Mylar: A Materials Investigation to Reduce Marine Life Fatalities Student(s) Sean Mensi Grade 9 Town Katonah Lincoln O'Donohue Town Old Greenwich Grade 10 \* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2024 Invention Convention, June 8 Greenwich Brunswick School Dana Montanez 6516 PST Water Testing with Ease: Creation of a handheld device for Water Analysis in Recently Flooded Areas. William Pallone Student(s) Grade 10 Town Rye **Townsend Bancroft** Grade 10 Town Greenwich \* Aquarion Water Company --- 2nd. \$150.00 Cash - Grade 9-12 For Excellence in Water Quality or Evironmental Managemen **Greenwich** Central Middle School Andrew Bramante The Synergistic Improvement of Indoor Air HEPA-Filtration using Concurrent Dehumidification Student(s) Mikah Kaalund Grade 8 Town Greenwich \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners \* Society of Women Engineers - Hartford Section --- Scientific Calculator **Greenwich** Central Middle School Andrew Bramante 2507 Modeling of Fairfield County Fresh-water and Estuary Waterways, to Highlight Contamination of their Ecosystems/Environments Student(s) Briar Lissauer Grade 8 Town Greenwich \* Southeastern New England Marine Educators (SENEME) --- \$100 award and membership for student and teacher in SENEME - 1st Place Junior **Greenwich** Central Middle School Andrew Bramante Development of a Simple Salivary Rapid Diagnostic for the Detection of Iodine Deficiencies 2516 18 Student(s) Tyler Malkin Town Greenwich Grade 8 \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners Greenwich 5504 Simple Filtration of Fertilizer-ion Water Contaminants via Implementation of Phosphate and Nitrate Absorbency Pads Student(s) Caroline Stowe Grade 8 Town Greenwich \* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners Aquarion Water Company --- 3rd. \$50.00 Cash - Grade 7-8 For Excellence in Water Quality or Environmental Management

[SchTown] [S [Proj#] [FCat] [H	School] Honors] [	[Teacher] Project Title]	Sponsor(s)	Award(s)		
Greenwich Easter	rn Middle Scho	ol Andrew Brama	ante			
2501 L8	1 D	esign of a Smart-B	andage to provide las	ting Itch-Relief and	l Healing	g for an Insect Bite.
	Student(s)	Lily Bittman		Grade 8	Town	Greenwich
* Connec	ticut Science S	Supervisors Associa	ation \$125 for a m	iddle school projec	et	
Greenwich Easter	rn Middle Scho	ol Andrew Brama	ante			
5502 P8	2 SI	hedding Light on thormulated Dog Foo	ne Prevalence of Harmods.	ful Butylated Hydro	oxytolue	ne Preservative in Artificially
	Student(s)	Mackensey Wils	son	Grade 8	Town	Old Greenwich
for sele	ected top MS w	fic Junior Innovator rinners vard \$500 cash	· ·	ination to compete	in the T	hermo Fisher Scientific JIC
Greenwich Green	wich Country D	Day School Natha	an Haag			
3016 LS	2 A	ntidepressant-resp	onse biomarkers in ac	lolescents: a confir	mationa	l study using EEG
	Student(s)	Solomon Hochr	nan	Grade 12	Town	Riverside
	II Center for Pe es related	erforming Arts I	Pair of Tickets to Bush	inell Center for top	project	that is behavioral or social
Greenwich Green	wich High Sch	ool Andrew Bram	ante			
6053 PS	2 R	educed Carbon Did uperconductive Cry	oxide Emission and In rogenic Brushless DC	creased Energy Ef Motor	ficiency	Via a Newly-Designed
	Student(s)	Ishan Ambastha	1	Grade 11	Town	Riverside
* Frederic	ck Olender US	C Award in Memor	y of G. Robert Wisner	\$250 Cash Aw	vard for I	HS student in USC school
Greenwich Green	wich High Sch	ool Andrew Bram	ante			
3113 LS		nplementation of a revention	Multi-Objective Genet	ic Algorithm to Opt	timize Re	esource Allocation in Disease
	Student(s)	Isaac Bell		Grade 10	Town	Riverside
* Otero F	amily Award	The Otero Famil	y Award; \$250 cash			
Greenwich Green	wich High Sch	ool Andrew Bram	ante			
3025 LS		onic Repulsion of Forests	Purple Sea Urchins to	Reduce Degradation	on of Na	scent Nereocystis luetkeana
	Student(s)	Owen Benison		Grade 11	Town	riverside
* GENIUS * Univers	S Olympiad ity of New Hav	GENIUS Olympia		Environmental, En	ergy, Ed	e 8, 9, 10 grader cology, or Biodiversity Project rship - \$96,000 (\$24,000 per
Greenwich Green	wich High Sch	ool Andrew Bram	ante			
6081 PS	2 G Bl	enetic Engineering lack Arctic Oceans	of Cryobacterium to I	ncrease Silica Con	itent and	Enhance the Glacial Albedo of
	_	Justin Bernstei	1	Grade 11	Town	Greenwich
* NASA E	EARTH System	Science Award	- Certificate and \$25	gift card given by 0	CSEF	

[SchTown]	•	[School] [Honors]	[Teacher] [Project Title]	Sponsor(s)	Award(s)		
			- 1	•	Awaiu(3)		
3122	LS	2	School Andrew Brama Rapid Detection of Pu Sensor Luminescent [	lmonarv Fibrosis via	Eu(TTA)3 Phen, a	and Rhodamine-6G-Cinna	maldehyde, Dual-
		Student	(s) Lauren Huang		Grade 11	Town Old Greenwich	
	* U.S. I	Metric Associa	ation Certificate & \$	25 gift card given by	CSEF		•
Greenwich	n Gre	enwich High S	School Andrew Brama	nte			
3071	LS	1	Fabrication of a Europ Alzheimers	ium-based Magnetio	Nanosensor for th	ne Detection of D-Serine in	n Early-onset
		Student	(s) Ava Jackson		Grade 11	Town Old Greenwich	
			ation Certificate & \$ e Supervisors Associati				
Greenwich	n Gre	enwich High S	School Andrew Brama	nte			
6058	PS	1	Detection of Nanoplas Learning	tics within Complex	Environmental and	I Food Resource Matrices	via Machine
		Student	(s) Henry Jin		Grade 10	Town Greenwich	
		rion Water Co agement	mpany 1st, \$250.00	) Cash - Grade 9-12	For Excellence in	Water Quality or Environn	nental
Greenwich	n Gre	enwich High S	School Andrew Brama	nte			
3003	LS	2	Iron-Fortified Cornhus Growth	k Biochar Flocculation	on of Pondwater Ph	nosphates, to Reduce Inva	asive Macrophyte
		Student	(s) Neil Pendkar		Grade 9	Town Old Greenwich	
	* Stock	holm Junior V	Vater Prize Certifica	te, \$25 gift card by 0	CSEF, possible adv	vance to further competition	on
Greenwich	n Gre	enwich High S	School Andrew Brama	nte			
3020	LS	1	Oral Delivery of Antico Tablet for Ischemic St		via a Mg-Micromot	or Encapsulant Within a C	Gastric-Resistant
		Student	(s) Lula Wang		Grade 9	Town Old Greenwich	
	* Rege	neron Biomed	lical Science Award	Certificate & \$375.0	00 cash		•
Greenwich	n Gre	enwich High S	School Andrew Brama	nte			
6019	PS	3	Reinforcement Learnin Novel Parking Deman	ng Optimization of P	acement of Public	Vehicle Charging Stations	s using a
		Student	(s) Marley Wies		Grade 10	Town Old Greenwich	
	* Maple		Engineers - Hartford Se or Applied Mathematics			packs, & T-shirt - For Ex	cellence in
Hamden	Hamd	en Hall Countr	ry Day School Daniel	Cuneo			
3096	LS	2	Edhelper: The Applica	tion of Artificial Intel	igence in the Aid o	f Neurodivergent Childrer	l
		Student	(s) Andrei Balas		Grade 10	Town Cheshire	
	* Amer	ican Psycholo	gical Association C	ertificate, \$25 gift ca	rd given by CSEF		•

iProi#i iFCati	[School] [Honors] [	[Teacher] Project Title]	Sponsor(s)	Award(s)		
		Day School Daniel (	• • • •	(-)		
6512 PST	-	-		n in Maize Yield Pre	ediction through Environme	ntal Patterns
0012 1 01		Helena Chaine	od Madrillo Edarriin	Grade 11	Town Orange	itai i attorno.
	Otauciii(3)	Yue Zhuo		Grade 12	Town Hamden	
		Linda Chen		Grade 10	Town Woodbridge	
* Bioph	vsical Society	- Biophysics Award-	\$100			
		Day School Gina D'				
6025 PS	1 D	-	rug response predic	tion algorithm abou	ut synergistic and antagonis	tic responses o
	_	Jiahui Chen		Grade 11	Town New Haven	
* Lunch	with a Patent At	torney Lunch wit	h a Patent Attorney			
lamden Hamde	en Hall Country D	ay School Sarrah	Gavin			
3061 LS	3 TI	ne effect of deforesta	tion on soil erosion a	at Sleeping Giant P	Park	
	Student(s)	Kaleb Fiore		Grade 10	Town Southington, CT	
* Alumr	i Botany Awards	Alumni High Scl	hool Botany Award-	\$100 Cash		
<mark>lamden</mark> Hamde	en Hall Country D	ay School Frank G	asparro			
3017 LS	1 E	ffect of Hydroxyapatit vobenzone and Octin	e Encapsulation on loxate to Enhance S	the Transdermal D unscreen Safety	iffusion and Photodegradati	on of
	Student(s)	Sophia Vash		Grade 10	Town Fairfield CT	
	nan Family Excel School	lence in Chemistry A	wards \$200 For	Excellence in Che	mistry or Chemical Enginee	ring -
lamden Sacred	Heart Academy	Sibani Sengupta				
3117 LS	2 TI	ne Effect of Sound Po	ollution on the Physi	cal Behavior of Arm	nadillidium Vulgare	
	Student(s)	Danyella Lanche-I	Flores	Grade 12	Town West Haven	
	ecticut Academy ow an audiologis		\$200 Award HS	6- For Excellence in	n Audiology and Acoustics, o	opport. to
Kent Kent School	ol Jesse Klinge	biel				
6032 PS	1 C	ardioXNet: Represen	tation Learning for A	ccurate Cardiovas	cular Disease Diagnosis fro	m X-ray Image
	Student(s)	Jiwon Hwang		Grade 10	Town Kent	
* J.A. A	ugustine and H.	Glista Awards \$1	100 H. Glista Award	for Physical Scienc	ces	
<b>lancheste</b> r Ma	nchester High So	chool Wendy Turek	-Hernandez			
3138 LS	2 D	etermining the incide oundance in Fagus g	nce of Beech Leaf Drandifolia buds	isease symptom s	everity based on overwinter	ing nematode
	_	Dina Watson		Grade 12	Town Manchester	
* Alumr	i Botany Awards	Alumni High Scl	hool Botany Award-	\$100 Cash		

[SchTown] [Proj#] [F0	[School] Cat] [Honors] [	[Teacher] Project Title]	Sponsor(s)	Award(s)	
	Saint James Schoo	I Ellen Oei	,	, ,	
5017 F	P7 1 C	rusty n' Rusty			
		Brendan Abbam	onte	Grade 7	Town Vernon
	hermo Fisher Scienti for selected top MS w		s Challenge Nom	ination to compete	in the Thermo Fisher Scientific JIC
Manchester	Saint James Schoo	I Ellen Oei			
5007 F	97 2 A	ffect of Color on He	at Absorption		
	Student(s)	Saanvi Sethi		Grade 7	Town Manchester
			& Geophysics Dept. \$100 for excellence in		Certificate, \$100 Cash
Mansfield E	Edwin O Smith High S	School Cheryl Gra	ınger		
6005 P		Why Does My Neighl		rees Than Yours?	Geospatial Modeling of Urban Tree Cove
	Student(s)	Hiruni Witharana	a	Grade 10	Town Storrs
* Д	Association for Wome	n Geoscientists	Certificate & \$25 gift	card given by CSE	
Milford Plat	tt Technical High Sch	ool Lori Grace			
3502 LS		latureCare Project			
		Diogo Gaudenci	0	Grade 12	Town bridgeport
	(-)	Yossias Muluale		Grade 12	Town ansonia
		Maritza Portillo		Grade 12	Town west haven
* C	CT Architecture Foundati	dation - The William ion, William M. Mac	M. Mack, AIA Award k, AIA Award for Inno	\$250 Amazon vation in Building P	Gift Card from the Connecticut Performance.
Montville S	aint Bernard School	Alexandros Mathi	oudakis		
6011 P	PS 2 M	laking Football Safe	er With The Smart He	met	
	Student(s)	Palmer Noe		Grade 10	Town East Lyme
* C	Office of Naval Resea	rch- U.S. Navy / U.S	S. Marine Corps I	IS School- Certifica	ate, \$75.00 gift card given by ONR
New Haven	Engineering and Sci	ience University Ma	gnet School Roger	Rushworth	
3118 L	S 2 Ir	nplementing the Us merging Contamina	age of Nontoxic Sand ants in Aqueous Solut	and Bacterial Filtra	ation in the Enhanced Degradation of
	Student(s)	Sahithi Aliminat	е	Grade 9	Town Milford
* 8	Stockholm Junior Wat	er Prize Certific	ate, \$25 gift card by 0	CSEF, possible adv	vance to further competition
New Haven	Engineering and Sci	ience University Ma	gnet School Roger	Rushworth	
3126 L	S 1 A	dvanced Hybrid Wa nd Photocatalysis fo	ter Treatment System or Comprehensive Co	ns: A Comparative s ntaminant Remova	Study of Membrane Filtration, Adsorption
	_	Saket Aliminate		Grade 10	Town Milford
* S	Stockholm Junior Wat	er Prize Certific	ate, \$25 gift card by	CSEF, possible adv	vance to further competition

#### Special Award Winners

[SchTown] [School] [Teacher] [Proj#] [FCat] [Honors] Sponsor(s) Award(s) [Project Title] New Haven Engineering and Science University Magnet School Alyssa Anderson Synthesis of Porous Polymer Sponge Matrix using Modified Sodium Alginate Clay Compound for 6052 Adsorptive Removal of Microplastics and Oil from Contaminated Water Student(s) Snigtha Mohanraj Grade 11 Town Ansonia \* 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 New Haven Hopkins School Phillip Stewart 6055 PS Profit from stock pricing Town Trumbull Student(s) Christina Cao Grade 11 \* University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Science or mathematics, Grade 11 only - \$30,000 (\$7,500/year) New Haven Sound School Charles Mulligan 6511 PST Potential Impact of Watershed Runoff and Tidal Inundation on the Hydrologic Profile of a Coastal March Student(s) Cora FitzGerald Grade 11 Town Guilford **Tamzin Maines** Grade 11 Town Old Saybrook \* National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF New Haven Worthington Hooker School Douglas Jones Biodegradable Hydrogels: Improving our Agriculture's Sustainability 1020 LT Student(s) Sofia Janiga Grade 8 Town New Haven **Azalea Deener** Grade 8 Town New Haven \* NYUC Pony Club Equine or Animal Science Award --- \$100 Cash Award for excellence in equine studies Newtown Newtown High School Timothy Dejulio Using Sunscreen as a way to distribute Beneficial Microorganisms for Corals (BMCs) 3083 Student(s) Lydia Cox Grade 11 Town newtown \* University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$96,000 (\$24,000 per year) for exemplary 11th grade project Norwich Norwich Technical High School Aleatha Pelloni Cultivating Green Growth: Harnessing Electroculture for Sustainable Gardening Practices 3526 LST Student(s) Sophia Caballero Grade 11 Town Norwich Alejandra Cardona Grade 11 Town New London \* Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF \* Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF

[ <mark>SchTown]</mark> [Proj#] [FCat]	[School] [Honors] [I	[Teacher] Project Title]	Sponsor(s)	Award(s)	
Norwich Norwic	h Technical High	School Aleatha Pell	oni		
3509 LST	1 Re	enewable fuel using ar	naerobic digestion		
	Student(s)	Jasmine Coulombe		Grade 11	Town Chaplin
		Tessa Lambert		Grade 11	Town Scotland
* GENI	US Olympiad	GENIUS Olympiad C	ompetition for 1st P	lace Technical Hi	gh School
Norwich Norwic	h Technical High	School Suzanne Ed	lwards		
6066 PS		Mathematical Analysis onverts from Kinetic to			rmance of Wind Turbines as the Energ
	Student(s)	Leah Kozerefski		Grade 9	Town Gilman
		tificate & USAF Merch lineers - Hartford Secti		ılculator	
Redding CT ST	EM Fair Joyce				
3052 LS	1 De	etermining the Ability o trates From Water	f Different Mosses	and Plants to Ren	nove Algae Causing Phosphates and
	Student(s)	Emma Cannon		Grade 11	Town New Canaan
		n Geoscientists Ce ne or Animal Science			F Illence in equine studies
Salisbury The H	Hotchkiss School	Sid Yenugu			
6103 PS	2 A	Resilient & Cost-Effec	tive Prosthetic Devi	ce Tailored for the	e Accelerated Growth of Children
	Student(s)	Sia Reddy		Grade 10	Town Avon
* Conn 2024	ecticut Invention ( Invention Conve	Convention "Next Step	Inventors" Nex	t Step Inventor To	ate, \$75.00 gift card given by ONR rophy & Invitation to compete at the
Simsbury West	minster School	Suzanne Bailey			
6043 PS	1 Du	ual-Degree-of-Freedor	n Pneumatic Should	ler Rehabilitation	Device Based on Flexible Materials
	Student(s)	Meiyin Ren		Grade 11	Town Simsbury
* Zepke	Awards \$12	25 - For the Best Use o	f Electronic Circuitr	y- Senior High	
South Windsor	South Windsor H	ligh School Danel Ei	tel		
6501 PST	1 Tr		Technology for a r	nore Efficient and	Cost-Effective Approach to Electronic
	Student(s)	Adithya Anand		Grade 11	Town South Windsor
		Jason Thokchom		Grade 11	Town South Windsor
		tion \$100 Honoral ward Jon Stone Av		Engineering- \$100	0

[SchTown] [Proj#] [FCat]	[School] [Honors]	[Teacher] [Project Title]	Sponsor(s)	Award(s)		
South Windsor	South Windsor	High School Dane	l Eitel			
3524 LST	1 [	MushBox: In Situ Bio Cellulosic Waste Inte	degradation of Munic gration	cipal Solid Waste th	rough Mycoremediation via Mycelium	n and
	Student(s	s) Samarth Basant	h	Grade 10	Town South Windsor	
		Tejbir Litt		Grade 10	Town South Windsor	
* GEN	IUS Olympiad	GENIUS Olympiad	d Competition for 1st	Place HS Environn	nental Project	
South Windsor	South Windsor	High School Joshu	ıa Kraus			
6035 PS		A novel approach to a		ea generator aided l	by triboelectric nanogenerators to har	rness
	Student(s	) Pranay Kakkar		Grade 11	Town South Windsor	
* Elect - \$10	ric Boat Manage 00 Cash for top	ement Association So project that has innov	sience and Engineeri vative nautical applic	ng Research Award ations	ds Top Prize in Nautical Research	า
South Windsor	South Windsor	High School Kevin	Snyder			
6013 PS	1	Scientific understand	ing of solar physics v	vith image based ne	eural networks	
	Student(s	) Pragyan Yadav		Grade 12	Town South Windsor	
		ticut - Early College I 100 Gift Certificate	Experience UCO	NN Early College E	experience Program: Physical	
Southington Jo	seph A. Depaol	o Middle School H	alime Agirman			
2514 L8	2	Global Warming Man Derived Calcium Car	agement through Uti	lization of naturally	occurring resources such as Eggshe	II-
	-	s) Esra Agirman	boliate III Global Wa	Grade 8	Town Southington	
* Talco to or	ott Mountain Science Summer or S	m Science Award ence Center & Acade aturday Program at <sup>-</sup> nquiry Learning I	emy TMSC Foun TMSC - Value \$435	der's Award - Middl	e School Life Science - Scholarship	
Stamford King	School Victoria	a Schulman				
6097 PS	1 [	DETICKT IT: A Mach Spatiotemporal Disea	ine Learning-Based ase Risk Assessmen	Application for Real	I-Time Tick Identification and	
	Student(s	) Antonia Kolb		Grade 12	Town New Canaan	
	topher T. Borowicial Intelligence	riec Excellence in Inn	ovation Awards	\$100 Cash for Exce	ellence in Innovation with emphasis in	า
Stamford King	School Erik Rı	utyna				
6078 PS	3	Utilizing Ground and Monitor Climate Char	Space-Based Sensonge/Environmental Is	rs to Track Trajecto sues	ories of Vehicles/Dangerous Objects a	and
	Student(s	s) Ryan Wempen		Grade 12	Town Stamford	
* NAS	A EARTH Syster	m Science Award	Certificate and \$25	gift card given by C	CSEF	
Stonington St.	Michael School	Anna-Helene Gros	somanides			
5501 P8	2	Determining the Impa	act of pH on Seashel	Dissolution		
	Student(s	s) Addison Cadmu	<b>s</b>	Grade 8	Town Pawcatuck	
* Natio	nal Oceanic and	d Atmospheric Admin	istration Certifica	ate and \$25 gift card	d given by CSEF	

[SchTown] [Sc [Proj#] [FCat] [Ho	hool] nors] [l	[Teacher] Project Title]	Sponsor(s)	Award(s)			
Stonington St. Mich	ael School	Anna-Helene Gros	ssomanides				
5008 P7	3 Ex	kpensive Fails or, L	ong Lasting Nails				
	Student(s)	Maeve Nicholas		Grade 7	Town	Stonington	
* Talcott Me Scholars	ountain Scier hip to one Su	nce Center & Acade Immer or Saturday	emy TMSC Found Program at TMSC - V	er's Award - Middle alue \$435	e Schoo	l Physical Science	) <b>-</b>
Stratford St. Mark S	School Alex	ander Kennedy					
2513 L8	2 In	nplicit Gender Bias					
	Student(s)	Julianne Gonzal	lez	Grade 8	Town	Stratford	
* American	Psychologic	al Association	Certificate, \$25 gift car	d given by CSEF			
Stratford St. Mark S	School Alex	ander Kennedy					
4020 PT	3 De	oes Color Affect the	e Way taste is perceive	ed?			
	Student(s)	Maeve McClosk	еу	Grade 7	Town	Stratford	
		Stella Testo		Grade 7	Town	Stratford	
* American	Psychologic	al Association	Certificate, \$25 gift car	d given by CSEF			
Trumbull Christian I	Heritage Scho	ool Daniel Cote					
6102 PS	3 Vi	sion Through AI: A	ssisting the Visually In	npaired By Building	g Al Sma	art Glasses	
	Student(s)	Daylin Jerome		Grade 11	Town	Bridgeport	
* University Grade 1 * Wisner Cl	of Hartford S I only - \$30,0 nairman's Aw	Scholarships U 100 (\$7,500/year) vard \$500 cash	S. Marine Corps H Jniversity of Hartford S & Plaque HS Susan and StanleyLe	cholarship - For Ex	kcellenc	e in Science or ma	athematics,
Trumbull Christian I	Heritage Scho	ool Nicole Camad	cho				
2517 L8	2 D	o Storm drains kee	p trash out of water wa	ıys?			
	Student(s)	Juliette Schwart	z	Grade 8	Town	Shelton	
			nistration Certificat Aquatic Science F				\$100 cash
Trumbull Christian I	Heritage Scho	ool Daniel Cote					
6037 PS	3 Te	ext to Speech and	Speech to Text App fo	the Hearing Impa	ired		
	Student(s)	Noah Scrofani		Grade 11	Town	Trumbull	
	cut Academy an audiologis		ds \$200 Award HS	- For Excellence ir	n Audiol	ogy and Acoustics	s, opport. to
Wallingford Choate	Rosemary H	all Jan Cook					
6051 PS	2 Pı	operties of Certain	Quadrilaterals of Tria	ngle Centers			
	Student(s)	Kay Yeon Lee		Grade 11	Town	Wallingford	
Mathema	atics		es and Modeling M Susan and StanleyLes	•	-		

#### Special Award Winners

[SchTown] [School] [Teacher] [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s) Wallingford Choate Rosemary Hall Selena Gell Construction of a Low-cost, Accurate Liquid Handling Device with 3D Printing for Polymerase Chain 6502 PST Reaction **Calvin Moon** Student(s) Grade 12 Town Wallingford **Jeffrey Moon** Town Wallingford Grade 11 \* Jon Chapitis Memorial Award --- Jon Chapitis Spirit of Innovation Award - HS \$200 \* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2024 Invention Convention, June 8 Wallingford Choate Rosemary Hall Andrew Murgio 6525 PST AgriBotanical: An Intelligent Continuum-Maneuver Robot for Monitoring and Managing Arboreal Wild Bee Student(s) Jingyuan Zhang Grade 11 Town Wallingford Xivin Yang Grade 11 Town Wallingford \* MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Applied Principles Award -\$250 \* IEEE, Connecticut Section --- \$250 Honors Award -Senior \* Arthur & Ruth Mensing Awards --- Mensing Award Excellence in the High School Physical Sciences - \$500 Waterbury ACES at Chase Lisa Debany Creating Safe Sunscreens For Coral Reefs With The Best U.V. Protection. 1007 LT Town Watertown Student(s) Emily Ambrosini Grade 7 **Taylor Boscarino** Grade 7 Town Thomaston \* Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF Waterbury ACES at Chase Sandra Solimene 5503 P8 The Bag that Saved the Homeless Student(s) Evaleise Diaz Grade 8 Town Meriden \* Demos R Us Awards --- \$200 Cash Award- Clear Execution of Research- 8th Grade Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2024 Invention Convention, June 8 Waterbury ACES at Chase Kelly Horan 5005 P7 What Design of Mesh Water Filtration Device Most Effectively Removes Microplastics? Grade 7 Student(s) Jacob Godfrey **Town** Waterbury \* 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

[SchTown] [S [Proj#] [FCat] [H	School]     lonors	[Teacher] Project Title]	Sponsor(s)	Award(s)		
Waterbury ACES	at Chase Wa	iterbury				
2511 L8	3 Le	eaf Light Chlorophyll	light bulb			
	Student(s)	Toren Lott		Grade 8	Town	Waterbury
* Ricoh A	mericas Corpo	ration Certificate	e, \$25 gift card given	by CSEF		
Waterbury ACES	at Chase Lis	a Debany				
2005 L7		educing Lycorma de nd Food Shortages.	licatula, Lantern Fly, I	nfestation: Using	Essentia	al Oils to Address Crop Damage
	_	Besjana Veliu		Grade 7	Town	Waterbury
	Fisher Scientifected top MS w		Challenge Nomir	ation to compete	in the Th	nermo Fisher Scientific JIC
Westport Greens	Farms Academ	ny Mathieu Freema	an			
5014 P7	1 No	ovel Radiation Shiel	ding for Radiation The	erapy and Arabido	psis on l	Mars
	Student(s)	Dylan Karpf		Grade 7	Town	Westport
for sele * Astrono Project * Electric \$100 C	ected top MS w mical Society c -\$150, subscrip Boat Managen ash for top pro	inners of Greater Hartford - otion to Sky and Tele nent Association Sci ject that has innova	The Charles Hammor escope, ASGH memb	nd Award for Exceership and meeting Research Award	ellence ir ng invitat Is To	nermo Fisher Scientific JIC  n Astronomy Junior ion op Prize in Nuclear Energy -
Wilton Middlebroo	k School Nar	ncy Wakeham				
5010 P7	3 W	ireless Power Trans	fer - Future of Energy	,		
	Student(s)	Ishan Chugh		Grade 7	Town	Wilton
* Office o	f Naval Resear	ch- U.S. Navy / U.S	. Marine Corps Mi	iddle School- Cert	tificate, \$	S25 gift card given by CSEF
Wilton Middlebroo	k School Will	iam Desroches				
1017 LT		EAT THE PEAT - RI OSS	CE HUSK, THE SUS	TAINABLE AND E	CO-FRI	ENDLY ALTERNATIVE TO PEAT
	Student(s)	Kabir Rokkam		Grade 7	Town	WILTON
		Shushruth Balaji		Grade 7	Town	Wilton
	Fisher Scientifected top MS w		Challenge Nomir	ation to compete	in the Th	nermo Fisher Scientific JIC
Wilton Wilton High	School Matt	hew Hoyt				
3059 LS	1 A	Novel Al-Driven App	oroach for Tracking ar	nd Managing Inva	sive Plar	nt Species
	Student(s)	Shriya Natarajan		Grade 10	Town	Wilton
* Banning	Family Life So	cience Award Fo	or excellence in invasi	ve species resear	ch, \$100	) cash
Wilton Wilton High		hew Hoyt				
3065 LS			ral and Man-Made Su			
	Student(s)	Nandan Raman		Grade 11	Town	Wilton
* Society	for In Vitro Bio	logy Certificate	and \$25 gift card give	n by CSEF		

[SchTown [Proj#]	-	[School] [Honors]	[Teacher] [Project Title]	Sponsor(s)	Award(s)		
Windsor	Acade	my of Aerospa	ce and Engineering	Michelle Bellinger			
6009	PS	1	Reinforcing the Cybe Monitoring Technology		l Data via Software C	Countermeasures against	Malware in Heart
		Student(	s) Sujay Chava		Grade 11	Town Ellington	
	Scie	nce - Co-Op \$1	cticut - Early College 100 Gift Certificate 5125 - For the Best U	•	, ,	xperience Program: Fron	itiers in
Windsor	Acade	my of Aerospa	ce and Engineering	Michelle Bellinger			
6002	PS	1	Integrating Piezoele	ctric Sensors and Ph	notovoltaic Material ir	n an Artificial Energy-Harv	esting Model Tree
		Student(	s) Laasya Chintap	alli	Grade 11	Town Farmington	
	* Socie	ty of Women E	Section \$100 Hon Engineers - Hartford S Award Jon Ston	Section Scientific		0	
Windsor	Acade	my of Aerospa	ce and Engineering	Michelle Bellinger			
4019	PT	1	Using Vortex Hydrop	oower Turbines to H	arvest Electrical Ener	rgy	
		Student(	•		Grade 8	Town Broad Brook	
			Dylan Gao		Grade 7	Town Coventry	
	* Robo STE	tics And Beyor M and Design	nd Middle Schoo summer camp, \$50 o	I- For excellence in cash if cannot attend	engineering design; \$ I camp, Certificate.	\$230 toward Robotics And	l Beyond
Windsor	Acade	my of Aerospa	ce and Engineering	Michelle Bellinger			
3004	LS	1	Therapeutic Potentia Surface Antigen 2 (1	al of Antibody Drug ( ROP-2) On High Gr	Conjugates Targeting ade Serous Epithelia	The Expression of Troph al Ovarian Carcinoma	oblast Cell-
		Student(	s) Ana-Lois Davis		Grade 12	Town Broad Brook	
	* The C	Community Fou ellence in Creat	ındation for Greater I tivity and Innovation I	Hew Haven's Milton by a High School stu	Fisher Awards for Inr dent, \$100 cash	novation and Creativity	- For
Windsor	Acade	my of Aerospa	ce and Engineering	Michelle Bellinger			
3054	LS	1	Optimizing Laterite S Underdeveloped Re	Soil Microbial Fuel C gions	ells for Community-C	Centric Electricity Generati	on in Tropical
		Student(	s) Namyanzi Edwa	ırds	Grade 11	Town New Britain	
	* IEEE * GENI * The C U	, Connecticut S IUS Olympiad Community Fou Jrban Public Sc	Indation for Greater National Environmental Actions Exception	ors Award -Senior ad Competition for H New Haven Ecology / Energy Award - \$2	S Environmental, En Environmental, and 50	ergy, Ecology, or Biodiver Alternative Energy Resea ence Scholarship - (amou	arch Prize
Windsor	Acade	my of Aerospa	ce and Engineering	Michelle Bellinger			
6079	PS	2	Using Biomimicry to	Harvest Energy from	n the Sinusoidal Moti	ion of an Eel	
		Student(	s) Vikram Haran		Grade 11	Town Ellington	
	* GENI	US Olympiad	GENIUS Olympia	d Competition for1s	t Place HS Future Su	ustainability	•

[SchTown	1]	[School]	[Teacher]				
[Proj#]	[FCat]	[Honors]	[Project Title]	Sponsor(s)	Award(s)		
Windsor	Acader	ny of Aerospa	ace and Engineering	Michelle Bellinger			
4011	PT	2	Using Piezoelectric S	ensors to Harvest Er	ergy from Automol	bile Tires and the Road Surface	
		Student	t(s) Palaniappan Ma	nikandan	Grade 8	Town Ellington	
			<b>Duke Clottey</b>		Grade 8	Town Hartford	
	* Therm for se * IEEE, * The C Excel * Urban Comp * Jon Cl	to Fisher Scielected top M Connecticut community Fo lence in Crea School Chal petition with s hapitis Memo	entific Junior Innovators S winners Section \$100 Hono undation for Greater H ativity and Innovation b lenge 1st Place Middle	s Challenge Nom orable Mention ew Haven's Milton Fi y a Middle School stu School Awards U apitis Spirit of Innovat	ination to compete sher Awards for Inr ident, \$100 cash JSC Highest Placir tion Award - MS \$1		=
Windsor						,	
4004	PT	2	ace and Engineering Integrating Pelton Tu		Dings to Harvoot E	norgy	
4004	FI		t(s)		Grade 8	Town Ellington	
		Student	Roshan Kumar	"	Grade 8	Town Ellington	
			nosiiaii Kuillai		Grade 0		
	* Zepke	Awards	\$100 - For the Best Us	e of Electronic Circui	try- Middle School		
Windsor	Acaden	ny of Aerospa	ace and Engineering	Michelle Bellinger			
4001	PT	1	Combining Optical W Computations	ireless Communication	ons (OWC) and Ne	uromorphic Architecture for Large-S	cale
		Student	t(s) Rithvik Suren		Grade 8	Town Ellington	
			Aarav Chevva		Grade 8	Town Ellington	
	* 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						
Windsor	The Lo	omis Chaffee	School Koby Osei-N	/lensah			
6044	PS	1	A Deep Semi-Superv Encephalo Graphy (E		lization Approach fo	or Epileptic Seizure Prediction using	Electro
		Student	t(s) Sunwoo An		Grade 9	Town Seoul	
	* MTU <i>A</i> \$250	Aero Engines	North America, Inc	- MTU Aero Engines	Mechanical Engin	eering Innovative Concept Award -	
Woodbrid	<b>ige</b> Am	ity Regional	High School Catherir	ne Piscitelli			
6010	PS	1	Creation of an Environment Actuator to Provide a			plemented on a Novel Smart Fluidic I Exteroception	Servo
		Student	t(s) Aditi Bhattamish	nra	Grade 12	Town Orange	
	* Wiene	r Memorial A	ward \$ 1000 cash	+ Silver Bowl (\$2000	cash if a team) Lic	ah School	
	VVISITE	i wenional A	waiu ψ 1000 casii	T GIIVEL DOWL (\$2000	oasii ii a teaiii) i lig	gri G011001	

#### Special Award Winners

[SchTown] [School] [Teacher] [Proj#] [FCat] [Honors] [Project Title] Sponsor(s) Award(s) Woodbridge Amity Regional High School Catherine Piscitelli Developing and Testing a Laminar Airfoil Utilizing Computational Fluid Dynamics to Implement Into 6020 PS General Aviation Student(s) Alejandro Huber Grade 12 Town Woodbridge \* American Institute of Aeronautics & Astronautics - Connecticut Section --- \$200 award, certificate Woodbridge Amity Regional High School Catherine Piscitelli Development of a Novel Spray Mechanism Using Real-Time Bee Auditory Data to Trigger an Entomopathogenic Fungal Miticide in Beehives to Control Varroa Destructor Infestations 6503 PST Student(s) Sophia Messina Grade 11 Town Woodbridge **Nikhil Petrov** Town Woodbridge Grade 11 \* University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Engineering or Technology, Grade 11 only - \$30,000 (\$7,500/year) Woodbridge Amity Regional High School Catherine Piscitelli Modeling Interactions Between the Neocortex and the Basal Ganglia During Temporal Sequential 6098 PS Learning Using a Hierarchical Temporal Memory Artificial Neural Network Student(s) Annika Yun Grade 12 Town Orange \* IEEE, Connecticut Section --- \$100 Honorable Mention