



March 2, 2024

66th Annual Massachusetts Region V Science & Engineering Fair Bridgewater State University, Rondileau Campus Center Ballroom

Saturday, March 2, 2024 Program

- 8:00 AM 8:45 AM Registration, setting up of projects.
- 8:00 AM 9:00 AM Safety Checks.
- 9:00 AM -1:00 PM Judging of projects.
- 1:00 AM -1:45 PM Lunch at BSU's dining hall, the Bear's Den, provided by BSU.
- 1:45 PM -2:45 PM Tours of BSU Science & Math Center; additionally, students will design entries for design entries for the Region V Science Fair 2025 Program Cover Contest.
- 3:00 PM -3:45 PM Fair open to the public. Exhibitors will be at their projects.
- 4:00 PM -5:00 PM Awards Ceremony at Rondileau Campus Center auditorium.
- 5:15 PM -6:00 PM Dismantling of projects. No student is to take down his or her project prior to 5:15pm. Student are required to sign out.

First, Second and Third Place Award recipients will represent Region V at the Massachusetts Science & Engineering Fair at Gillette Stadium, Foxborough on Friday, April 5, 2024. **The top winner in the MA Region V Science and Engineering Fair** will attend the Regeneron International Science & Engineering Fair, May 12-17, 2024 in Los Angeles, CA – expenses paid. Details will be provided to the student after the Awards Ceremony.





Welcome to the 2024 Massachusetts Region V Science and Engineering Fair

On behalf of the STEM teachers and other STEM professionals who have worked diligently for the past eight months to put together our 2024 Science & Engineering Fair we are thrilled to have more than 110 students showcasing their hard work and great scientific accomplishments, representing 37 schools in Region V. It's great to be back, live-and-in-person, for the first time in three years!

We learned many years ago that anyone with the right tools can follow directions to build a model, fix a kitchen faucet or bake a cake. In this digital world, it's easy for students today to visit a website or click on a link to find answers to just about any question. However, for the United States to compete in a global economy we must help our youth to not just follow directions, but to think creatively and critically, and test their own ideas for validity. This is what science fair is all about. Science is all around us, and you probably don't realize how much you use it every day. But I've always said that the key value to science fairs isn't necessarily in working on science projects, but in all the other skills students learn in the process: research, organization, time management and meeting deadlines, how to create tables & graphs, how to present ideas and how to respond to questions from judges on the spot. It's an experience that lasts a lifetime!

Our thanks to the more than 45 professors, science researchers and other STEM professionals who have given their time this weekend to judge the efforts and the accomplishments of our students.

Thanks also to the dedicated cadre of teachers and others who are freely volunteering many hours of their time as part of our fair's Operating Committee to put together this event.

To our sponsors, thank you! Especially our newest sponsors: Cape Cod 5, <u>Wood's Hole</u> Oceanographic Institute, Brockton NAACP, Granite Telecommunications and <u>World Wide</u> Antenna Systems. Our continued success in these difficult financial times is a credit to your generosity.

A special nod to parents, many of whom have driven their children all over the place to pick up supplies and make sure that no one falls into the water.

We must also recognize the patience of our teachers, who have endured countless questions about variables, hypotheses, data analysis and everything else that goes into a project.

On behalf of the Massachusetts Region V Science and Engineering Fair Committee, I welcome you to the Sixty-sixth Fair. Congratulations to all our student participants – enjoy the experience and good luck!

Patricia a Monteinh

Patricia Monteith, Chair 2024 Massachusetts Region V Science & Engineering Fair

Sponsors and Contributors



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School & Teacher(s) Name; Project #,

Student Name(s), and Project Title

Barnstable Higl	h School	Mr. William Knittle
		Investigating the Effect of Varying Pigment to
SF-CH-057	Nicholas Ramos	Binder Ratios on Paint Performance
Brockton High School		Mr. Paul Nessralla
		Using Machine Learning to Detect Alzheimer's Disease
SF-CS-023	Sam Lizotte	in MRI Scans
Brockton Public Library		Ms. Patricia Monteith
SF-CH-089	Kyle Denny	Biochar's Potential for Mitigating Climate Change
		A Sound Approach to Attracting or Repelling
SF-EES-079	Yvangi Jacques	Pollinator Insects
Brookline High		Mr. Edward Wiser
		The Association Between COVID-19 Infection and
SF-BEPA-086	Yuanbin Wang	Myocarditis in a Large Population
Canton High Sc	hool	Ms. Rebecca Stang
		Identifying a Novel, Inexpensive, and Noninvasive
		Biomarker for Fibromyalgia: Using Metabolomics,
SF-BCMM-085	Pranav Addanki	Genomics, and a Drosophila melanogaster Model
Center for Student Coastal Research		
Center for Stud	ent Coastal Research	Ms. Susan Bryant
Center for Stud		
Center for Stud SF-BEPA-031	ent Coastal Research Christian Bunge, Maxwell Fernald, Finn Yemini	Seagrass Wasting Disease's effect on
	Christian Bunge, Maxwell Fernald, Finn Yemini	Seagrass Wasting Disease's effect on eelgrass under environmental stressors such as salinity
SF-BEPA-031	Christian Bunge, Maxwell Fernald, Finn Yemini	Seagrass Wasting Disease's effect on eelgrass under environmental stressors such as salinity Mr. Ryan Chiu
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SF-BEPA-031	Christian Bunge, Maxwell Fernald, Finn Yemini ol	Seagrass Wasting Disease's effect on eelgrass under environmental stressors such as salinity Mr. Ryan Chiu
SF-BEPA-031 Dana Hall Scho	Christian Bunge, Maxwell Fernald, Finn Yemini ol Bolin Miao	Seagrass Wasting Disease's effect on eelgrass under environmental stressors such as salinity Mr. Ryan Chiu Exploring the Interactions Between Peritoneal Dendritic Cells and T Cells: Implications for Cancer
SF-BEPA-031 Dana Hall Scho SF-BCMM-090	Christian Bunge, Maxwell Fernald, Finn Yemini ol Bolin Miao	Seagrass Wasting Disease's effect on eelgrass under environmental stressors such as salinity Mr. Ryan Chiu Exploring the Interactions Between Peritoneal Dendritic Cells and T Cells: Implications for Cancer Metastasis
SF-BEPA-031 Dana Hall Scho SF-BCMM-090 Dedham High S	Christian Bunge, Maxwell Fernald, Finn Yemini ol Bolin Miao	Seagrass Wasting Disease's effect on eelgrass under environmental stressors such as salinity Mr. Ryan Chiu Exploring the Interactions Between Peritoneal Dendritic Cells and T Cells: Implications for Cancer Metastasis Ms Amy Hill
SF-BEPA-031 Dana Hall Scho SF-BCMM-090 Dedham High S SF-BCMM-067	Christian Bunge, Maxwell Fernald, Finn Yemini ol Bolin Miao	Seagrass Wasting Disease's effect on eelgrass under environmental stressors such as salinity Mr. Ryan Chiu Exploring the Interactions Between Peritoneal Dendritic Cells and T Cells: Implications for Cancer Metastasis Ms Amy Hill RNA Interference: A Post-transcriptional Process for Effective Gene Silencing Mr. Adam Cutler
SF-BEPA-031 Dana Hall Scho SF-BCMM-090 Dedham High S SF-BCMM-067	Christian Bunge, Maxwell Fernald, Finn Yemini ol Bolin Miao chool Evan Channa, Adam Lagare	Seagrass Wasting Disease's effect on eelgrass under environmental stressors such as salinity Mr. Ryan Chiu Exploring the Interactions Between Peritoneal Dendritic Cells and T Cells: Implications for Cancer Metastasis Ms Amy Hill RNA Interference: A Post-transcriptional Process for Effective Gene Silencing
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SF-BEPA-031 Dana Hall Scho SF-BCMM-090 Dedham High S SF-BCMM-067 Dennis-Yarmou SF-EES-087 SF-EEN-017	Christian Bunge, Maxwell Fernald, Finn Yemini ol Bolin Miao chool Evan Channa, Adam Lagare th Regional High Molly Gedutis Maxwell Mingo, Ryan Netto,	Seagrass Wasting Disease's effect on eelgrass under environmental stressors such as salinity Mr. Ryan Chiu Exploring the Interactions Between Peritoneal Dendritic Cells and T Cells: Implications for Cancer Metastasis Ms Amy Hill RNA Interference: A Post-transcriptional Process for Effective Gene Silencing Mr. Adam Cutler Insecticide Resistance and Efficacy in Culex Mosquitoes on Cape Cod
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		Mr. Daniel Nightingale, Ms. Liza Fox, Ms. Katherine
Falmouth Acad	emy	Seltzer
		Comparing Morphology to Sex in Limulus
SF-BEPA-026	Maverick Pil	polyphemus
		Do essential oils repel Lone Star larvae as
SF-BEPA-021	Amelia Russell Schaeffer	effectively as DEET?
		Examining Hurricane Intensities and their
SF-EES-038	Faye McGuire	Impacts Using SLOSH Models
		Investigating the Impact of Oyster
SF-EES-028	Luke Okoshi-Michel	Aquaculture on Water Quality
SF-AS-014	Yaz Aubrey	Is the Source of Dark Energy Time Dependent?
		Studying the Effect of Environmental
		Variables on the Settlement and Post-settlement
		Mortality of Semibalanus balanoides in Kongsfjorden,
SF-BEPA-011	Erik Gulmann	Norway Using CATAIN Camera
		The effects of alcohols and their affect on multicellular
SF-BE-082	Willow Wakefield	organisms behavior and reproduction
		Determining the Sustainability of Different Wood Pellet
SF-CH-066	Max Donovan	Types
		Observing the Effect of Microplastics on Zebrafish
SF-BCMM-018	Taleena Gonneea	Macrophages
	Jaiden Elber and Matthew	
SF-CH-088	Kellogg	Producing a Biofuel From Peanut Shells
Falmouth High	School	Ms. Carmela Mayeski, Ms. Stacey Strong
		The Impact of Invasive Phragmites on Soil
SF-EES-064	Maisie Chase, Celia Suttles	Carbon Density, and Hydraulic Conductivity
		The effect of ocean acidification on seaweed
SF-BCMM-056	Gayatri Chaturvedi	physiology
SF-EEN-076	Ethan Parmentier	Self-sustaining microgarden
SF-BI-041	Ella Rosenthal	Biofuel Potential of Cape Cod Seaweeds
SF-PH-059	Robert Simpkins	Dusty Plasma
Hanover High S		Ms. Renee Parry
	Catherine Reinhart, Abby	
SF-CH-071	Taylor	How does Flour Effect Baking Cookies?
Maimonides Sc	hool	Ms. Maria Lazebnik
		Nanoparticle Guided Synthesis of Size-Tunable
SF-CH-075	Hayim Sims	Photonic Crystals
Martha's Viney	ard Regional High School	Ms. Hall, Mr. Hall, Ms. Munn
		Revolutionizing Menstrual Hygiene: A Green
SF-CH-045	Molly Crawford	Approach with Reusable Tampons
SF-EE-060	Jack Engler	Wheel Chair Harness of the Future
		Does humidity level in the classroom affect
SF-BCMM-024	Kyle Levy	bacterial growth and transmissivity?

		Developing a Flight Computer for Class 1
SF-CS-019	Elliot Stead	Rockets
Millis High Sch		Mr. Scott Alconada
Willis High Sch		
		Silent Protectors: The Covert Transformation
SE-BCMM-073	Vera Medvedeva	of Angiogenin in Cancer Defense
Milton Academ		Ms. Emma Bradford, Mr. Jim Kernohan
	.,	Comparison of Airborne Particulate Matter
		in Suburban and Urban Areas in Eastern
SF-EES-033	Chisom Unamka	Massachusetts
		Words That Shape the World: A Word2Vec
		Analysis of U.S. Presidents' Political Rhetoric and its
	Simon Farruqui, Ching Hei	Implications on Minority Immigrant Rights and the
SF-BE-084		American Dream
	Andre Leung	
Natick High Sch	lool	Mr. Jim Araujo
SF-PH-068	Om Sharma	Can you create waves by clapping?
		Ms. Patricia Di Eduardo, Ms. Cindy Erickson, Ms.
		Genevieve Fein, Ms. Martha Haddad, Mr. Tamas
		Molnar, Dr. Michael Pahre, Mr. Brett Schusterbauer,
		Dr. Rebecca Sen, Ms. Carolyn Skudder-Pocius, Dr.
Newton Count	ry Day School	Sarah Webster, Ms. Shifra Yonis
	Please refe	r to the enclosed insert
Newton North	High School	Ms. Heather Hotchkiss, Ms. Tracey Stewart
		Early Diagnosis of Alzheimer's With
SF-MA-044	Alex Kuai	Advanced 2.5D Deep Learning
		Improving Size Control Following
	Esha Bhawalkar, Caitlin	Hydrothermal Synthesis Preparation of Carbon
SF-EEN-012	Riordan, Findlay Toone	Quantum Dots
	nordan, malay roome	
Newton South	High School	Mr. Gerard Gagnon
		Inhibition of melanin synthesis and
		anti-inflammatory effects of Leuconostoc
		mesenteroides derived exosomes separated from
SF-BCMM-040	Husang Lee	Camellia japonica flower
	Andrea Tang	Transgenerational Effects of Extreme
SF-EES-035	Andrea Tang	Temperature Exposures on Children's Health
Noble and Gree	enough School	Mr. Max Montgomery, Mr. Andrew Shumway
		Machine Learning Approaches to Enhance
SF-EE-032	Christopher Yoo	Inverse Kinematics in Robotics
	Andrew Kan, Christopher	Video and 3D Image Analysis with Masked
SF-CS-027	Kan	Auto Encoders and Contrastive Learning

	Ms. Lauren Abbott, Mr. Patrick Kessler, Dr. Nicole
gh School	Kymissis
	The Effect of Insecticides on the Acidity of Water
Brian Chau	and Growth of Dwarf Sagittaria
Michelle Chen	Balance in Carbonate Convergent Waves
Elmeria Cheung	Decomposition of Different Bioplastics
	Chemical Profiling of the Triglycerides in Two
	Species of Microalgaes Using a Green Extraction
Madison Evans	Method
	How the Species of Microalgae Reduces the
	Effects of Carbon Dioxide in Modified Seawater on
Anna Li	Calcium Carbonate
	Observing the Visible Spectrum ofter the
Delle 1:	Observing the Visible Spectrum after the
Belle Li	Interference of Water, Isopropyl Alcohol, and Acetone The Effect of Water pH on the Germination Rate
Catherine Liang	of Snap Pea Seeds
contracting clone	Synthesizing and Optimizing Biodegradable
	Pectin-Manuka Honey Hydrogels for Transcutaneous
	Electrical Nerve Stimulation (TENS) Therapy and its
Marko Mano	Applications in Tissue Engineering
	Environmental Effect on Biogas Emissions of
Alvin Nikolla	Decomposition
	The Effect of Ethanol Solvent of Various pH
Brian Zhang	on Beetroot Dye
ool	Mr. Ronald Boudreau, Ms. Meghann Murray
	How Do Various Forms of Sucrose Affect
Maya Tittel	Saccharomyces cerevisiae's Growth?
Priya Parasar	Science behind the Titan Submarine Implosion
	Ms. Betty Bloch
Zimon Li	RBC Folate's Effect on Cardiovascular Disease
ool	Mr. David Accardi, Ms. Emily Burke, Mr. Zach Snow
	Filtration Capabilities of different chemicals
Avaneesh Mohan	for PFOAs and PFAS molecules Identification of Potential Biomarker and
	Survival Analysis for Hepatocellular Carcinoma Utilizing
	Bioinformatics Approach: An Investigation Utilizing
Agastya Sarmah	Cancer Datasets
v/-	Inhibiscore: Utilizing Artificial Intelligence to
	Discover a Promising ERα-Targeted Breast Cancer
Aishwaryalakshmi Saravanan	°
	Brian Chau Michelle Chen Elmeria Cheung Madison Evans Anna Li Belle Li Catherine Liang Marko Mano Alvin Nikolla Brian Zhang ool Maya Tittel Priya Parasar Zimon Li ool Avaneesh Mohan

		Can Ultrasound be Used as a Solution to Vision
SRC-EE-948	Soumalya Chatterjee	Impairment?
Southeastern R	egional Vocational Technical	Ms. Jennifer Fitch-Tewfik, Ms. Kathryn Manigan, Ms.
High School		Christine Warren
SF-EE-095	Olivia Charlesworth	Bridges and Bonds
		Effects of Different Growing Methods on
		Cucumis sativus (Cucumber) Seed Germination and
SF-BEPA-091	Rachel Spring	Growth
05 550 010	Fany Benitez, Skyla	Whether the Dura on Dee Den Tree Dreference?
SF-EES-010	Sturtevant	What's the Buzz on Bee Pan-Trap Preference? Mr. Alex Chen, Ms. Shannon Gilliland, Ms. Annie
St. John Paul II High School		Poirier
St. John Paul II		
	Autumn Ozolins	Natural Antibiotics- The Antidote to Antimicrobal
SF-BCIVIIVI-040	Autumn Ozolins	Resistance
	Crace Egmana	Exploring Aerodynamics: The Effect of a Rocket's Fins
SF-EE-065	Grace Egmore	During Flight Shuffle Science: Analyzing Machines, Riffles, and
SF-MA-049	Jamison Ballou	Algorithms in Card Shuffling
		- Abortanity in card offaning
SF-CH-050	Devan Rodes	The Effect of Temperature on the Luminol Reaction
SF-BEPA-016	Zach Jones	Road Salt vs Chemical De-Icer: Effects on Plant Growth
	Isabella Scioletti, Nora	Microplastics: a threat posed for ocean ecosystems
SF-EES-069	Bruinooge	demonstrated by sea anemones
SF-EES-025	Kiara Miller	Effects of Pollutants on Aquatic Plants
SF-PH-077	Grant Silver	Quantum Computation with Black Holes
SF-EE-055	Ben Kowal	What is Maglev Technology
SF-EES-030	Evalyn Evans	Pollution and Its Effects on Ocean Water
Stoughton High	School	Ms. Courtney Sasin
SF-CH-094	Emily Dupont	The Chemistry of Dyeing
Sturgis Charter	Public School	Ms. Shiobhan Curran
	Brenna Duffy, Teagan	Relation Between Nuclear Power Plants and
SF-MA-039	Tierney	Childhood Cancer Deaths
Tabor Academy	,	Mr. David Wellstead
		Novel Water Collection Through Shell-Inspired
SF-EEN-022	Huiyi Wen	Origami
		The impact of global warming and ocean acidification
SF-EES-015	Zhiyang Zhong	on marine biodiversity

Thayer Acaden	av	Mr. Richard Sucher
indyer Acaden	.,, 	
SF-EE-051	Yuyao Wu	Bionic Insect Jumping Device
The Cambridge School of Weston		Mr. Kevin Smith
		Identification of neural differentially
	5 F 1 F	Identification of novel differentially
SF-BCMM-092	Xiaofeng Li	expressed genes related to hepatocellular carcinoma
The Fessenden	School	Mr. John Palermo
		On the properties of quadrilaterals
SF-MA-054	Ganghun Kim	determined by triangle centers
The Windsor School		Mr. Jason Cox, Mr. Christopher Player
		DebateGPT: Assessing the Accuracy of
		Context-Dependent Generative AI Responses to
SF-CS-037	Yuyuan Huang	American Parliamentary Debate Queries
		Dopaminergic synapse organizing molecules
SF-BCMM-078	Remy Kim	and their implications for Parkinson's Disease
Ursuline Acade		Ms. Elizabeth Mathew
orsume Acade	Chelsea Adams, Allyson	
SF-CH-013	Bligh, Mia Caparrotta	How does pH Affect Skincare Products?
51-015	bigit, Mia caparrotta	Mr. Derrick Genova, Ms. Sylvia Kaczmarek, Mr.
Welleslov Sr. H		•
	ligh School	Michael Krieger, Mr. Thomas Van Goel
wellesley st. n	ligh School	Michael Krieger, Mr. Thomas Van Geel
		Drop the MYC: Synthetic Protein Design for
SF-BCMM-061		Drop the MYC: Synthetic Protein Design for Abrogating MYC Signaling
SF-BCMM-061	Arin Nazarian	Drop the MYC: Synthetic Protein Design for Abrogating MYC Signaling Building an Al-driven Computing Model for Selecting
		Drop the MYC: Synthetic Protein Design for Abrogating MYC Signaling Building an Al-driven Computing Model for Selecting Green and Bio-based Sustainable Solvents in
SF-BCMM-061	Arin Nazarian	Drop the MYC: Synthetic Protein Design for Abrogating MYC Signaling Building an Al-driven Computing Model for Selecting Green and Bio-based Sustainable Solvents in Preventing Abortive Spinal Surgery Using a Novel
SF-BCMM-061	Arin Nazarian Jack Li, Jayson Wang	Drop the MYC: Synthetic Protein Design for Abrogating MYC Signaling Building an Al-driven Computing Model for Selecting Green and Bio-based Sustainable Solvents in Preventing Abortive Spinal Surgery Using a Novel Machine Learning Classification of Posterior
SF-BCMM-061 SRC-CH-305 SRC-CS-1029	Arin Nazarian Jack Li, Jayson Wang Yaniv Taussky	Drop the MYC: Synthetic Protein Design for Abrogating MYC Signaling Building an Al-driven Computing Model for Selecting Green and Bio-based Sustainable Solvents in Preventing Abortive Spinal Surgery Using a Novel Machine Learning Classification of Posterior Thoracolumbar Systems
SF-BCMM-061 SRC-CH-305	Arin Nazarian Jack Li, Jayson Wang Yaniv Taussky	Drop the MYC: Synthetic Protein Design for Abrogating MYC Signaling Building an Al-driven Computing Model for Selecting Green and Bio-based Sustainable Solvents in Preventing Abortive Spinal Surgery Using a Novel Machine Learning Classification of Posterior Thoracolumbar Systems Mr. Stephen Ribisi
SF-BCMM-061 SRC-CH-305 SRC-CS-1029	Arin Nazarian Jack Li, Jayson Wang Yaniv Taussky	Drop the MYC: Synthetic Protein Design for Abrogating MYC Signaling Building an Al-driven Computing Model for Selecting Green and Bio-based Sustainable Solvents in Preventing Abortive Spinal Surgery Using a Novel Machine Learning Classification of Posterior Thoracolumbar Systems Mr. Stephen Ribisi Analysis and Machine Learning Modeling of
SF-BCMM-061 SRC-CH-305 SRC-CS-1029	Arin Nazarian Jack Li, Jayson Wang Yaniv Taussky	Drop the MYC: Synthetic Protein Design for Abrogating MYC Signaling Building an Al-driven Computing Model for Selecting Green and Bio-based Sustainable Solvents in Preventing Abortive Spinal Surgery Using a Novel Machine Learning Classification of Posterior Thoracolumbar Systems Mr. Stephen Ribisi

2024 MA Region V Science & Engineering Fair Operating Committee Members

- Patricia Monteith Chair, Region V Science Fair Brockton Library Makerspace
- Dr. Sarah Webster, Chair, Scientific Review Committee Newton Country Day School
- Jennifer Aizenman, Director Center for the Advance of STEM Ed (CASE)
 Bridgewater State University
- Claire Boudreau, Program Book/Certificates North Quincy High School

- Jennifer Flannery, Communications Bridgewater-Raynham Regional High
- Katherine Honey SE MA Stem Network
- Liz Klein, Outreach Falmouth Middle School
- Renee Parry Hanover Public Schools
- Mary Ellen Stephen Past Director Region V Science Fair
- Samuel Sharon, Technical Operations Deloitte

Special Thanks

- Maura Whittemore Bridgewater State University
- Elizabeth Kronberg, Helen Rosenfeld, Bekah Stendahl @ MSEF
- Volunteers: Laura Biechler, Eileen Estudante, Bill Rigney, Sue Porazo, Susannah Leslie, Lucia Shannon
- Program Book Cover Design: Anjali Reddy, Newton Country Day School
- Region V Logo: Barnas Monteith



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The Afro-Academic Cultural Technological and Scientific Olympics (ACT-SO) is the exciting youth program of the NAACP which showcases and highlights the knowledge and talents of local area high school students in more than 30 categories.

More info: https://www.naacp-brocktonbranch.org/actso

Next local competition: April 27, 2024 in Brockton

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