

# CELL-EBRATE SCIENCE



## SO WHAT ARE THEY?

CELLS ARE THE BUILDING BLOCKS OF THE HUMAN BODY, PERFORMING ESSENTIAL FUNCTIONS SUCH AS ENERGY PRODUCTION AND TISSUE REPAIR.

# $37 \times 10^{12}$

CELLS INSIDE YOU,  
THAT'S 37 TRILLION

Artwork by: Amy Xia



Natural Sciences Education  
and Outreach Center

# Welcome to the 2025 Colorado Science & Engineering Fair

Congratulations to this year's CSEF student researchers. The dedication displayed by each and every participant is commendable. Each of you is an accomplished scientist, having completed a self-directed scientific or engineering research project and earned the opportunity to represent your region at the state level. We are all here to celebrate your success and applaud your parents, teachers and mentors for their enthusiastic support. From start to finish, and at all levels of participation, the science and engineering fair experience is one not only of competition, but also of camaraderie, creativity and education. Well done!

This is my 26<sup>th</sup> year as the director of the CSEF and I am always amazed by the work our Colorado young people do. You give me hope for the future!

The success of each year's CSEF is directly dependent upon the support of public and private organizations, government agencies, school districts and universities, as well as the efforts of hundreds of committed volunteers. I want to say thank you to the members of the Board of Directors who oversee the nonprofit organization, the members of the Advisory Council who aid me in making sure everything runs smoothly; the judges; and hundreds of on-site

volunteers who do the actual work during the CSEF.

I would also like to say thank you for the support given to me by my colleagues in the Natural Sciences Education & Outreach Center (NSEOC) at Colorado State University. CSEF has called the NSEOC home for the past 26 years and we are proud to include the state science fair as one of its many outreach endeavors in the area of science, technology, engineering and mathematics education.

Each year, the CSEF sends the top senior division projects to compete in the Regeneron International Science and Engineering Fair, being held this year in Columbus, OH May 11 - 16, 2024. These students join the 15 or so other students who attend representing their regional science fair. I wish these students good luck and I know they will represent the state of Colorado well.

The top junior division projects are nominated to complete the application process for the Thermo Fisher Scientific Junior Innovators Challenge competition. Each year, 300 semi-finalists are chosen from the thousands who enter and from those, 30 finalists are awarded a trip to compete for up to \$25,000 in scholarship funds.

Keahi Donahue from Nederland High School, Ersel Serdar from

Cherry Creek High School and Malcolm Smith from Niwot High School, were named semi-finalists for the Regeneron Science Talent Search that is open to students in their senior year of high school. Each semi-finalist received \$2,000 for this honor and their schools also received \$2,000.

I would also like to encourage everyone to watch Science Fair: The Series on Disney Plus as it features three students from Colorado!

Thank you so much for attending and I look forward to many more years as the CSEF Director.

Sincerely,



Courtney Butler  
CSEF Executive Director



Please follow us on Instagram!  
And post your pictures from the  
2025 CSEF there!

# 70<sup>th</sup> Annual Colorado Science & Engineering Fair

**Thursday, April 3, 2025**

## Finalist Schedule

***There will be NO on-site SRC interviews or paperwork fixes.***

If SRC issues are not dealt with by April 1<sup>st</sup>, then the student will not be allowed to participate in the CSEF.

9:00 a.m. – 11:30 a.m.	Staggered Junior and Senior Division Finalist Check-In (your region's check-in time will be emailed to you)	Grand Ballroom Foyer
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***Finalists MUST stay with their exhibit until Display & Safety Inspection has been done and an Official Photo has been taken. Finalists must be out of the exhibit areas by 12:00 noon.***

9:00 a.m. – 11:30 a.m.	Tour Ticket Pick-Up Pre-ordering of tickets is highly encouraged!	Room 322
12:45 p.m. – 5:00 p.m.	Judging Interviews – <b><i>Students must be at their exhibits.</i></b>	Grand Ballroom

## Adult Schedule

1:00 p.m. – 3:00 p.m.	Professional Development – Use of GIS in Science Fair Projects	Room 322
3:30 p.m. – 4:30 p.m.	CSEF Scientific Review Committee Debrief & Discussion	Room 322

## Judging Schedule

9:45 a.m.	Grand Awards Judge Captains' Orientation	LSC Theater
11:00 a.m.	Grand Awards Judges' Orientation	LSC Theater
11:45 a.m.	Grand Awards Judges' Luncheon	LSC Theater Lobby
12:45 p.m. – 4:30 p.m.	Grand Award Judging Interviews	Grand Ballroom
1:15 p.m. – 5:00 p.m.	Special Award Judging Interviews	Grand Ballroom
5:15 p.m.	Exhibit area is locked. Best-of-CSEF judging begins. <b><i>Only Judging Captains and SRC Members are permitted in the exhibit area at this time.</i></b>	

## **Friday, April 4, 2025**

9:00 a.m. – 5:00 p.m.	CSEF Finalist Exhibits Open to the Public and the Media	Grand Ballroom
9:00 a.m. – 10:30 a.m.	Guest Speaker – Dr. Henry Thompson, Professor of Horticulture & Landscape Architecture at Colorado State University	LSC Theater
11:00 a.m. – 2:30 p.m.	Tours & Presentations – <i>Registration is required.</i>	
2:00 p.m.	Finalist Ballots for Student Choice and Poster Contest are due.	Registration Booth
6:00 p.m.	CSEF Awards Ceremony	Timberline Church

## **Saturday, April 5, 2025**

9:00 a.m. – 11:00 a.m.	Public Viewing – <b><i>All Finalists MUST be present at their projects.</i></b>	Grand Ballroom
9:00 a.m. – 10:00 a.m.	Advisory Council Meeting	Room 322
11:00 a.m. – 12:00 p.m.	Pizza Party & Door Prizes (must be present to win)	Grand Ballroom
11:00 a.m. – 1:00 p.m.	Exhibit Tear-Down – Everything must be removed by 1:00 p.m.	Grand Ballroom
12:00 p.m. – 2:00 p.m.	Board of Director's Meeting	Room 322

# 2025 Colorado Science & Engineering Fair

## Guest Speaker

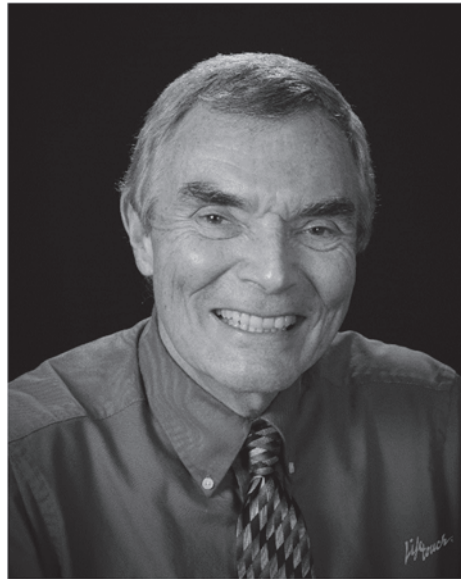
Dr. Henry Thompson

Director, Cancer Prevention Laboratory, CSU

*A Quest to Save a Billion Lives: Positioning Agriculture as an Instrument of Public Health*

April 4, 2025, 9:00 a.m.

Colorado State University Theater



### **About the Talk:**

This presentation will highlight key developments in a 50-year journey from drug development to food and lifestyles that health professionals can use to prevent and control chronic diseases (obesity, type-2 diabetes, cardiovascular disease and cancer). These diseases account for over 70% of global mortality per annum. During this presentation, attendees will engage in memory development and critical thinking skills and better understand the basis of motivation and the generation of new ideas.

### **About the Speaker:**

Henry J. Thompson, Ph.D., is a professor in the College of Agricultural Sciences and director of the Cancer Prevention Laboratory at Colorado State University in Fort Collins, Colorado. He is also on the faculty of the Colorado School of Public Health and is a member of the University of Colorado Comprehensive Cancer Center at UC Denver. From 1988 to 2002, he was the head of the Center for Nutrition in the Prevention of Disease at AMC Cancer Research Center in Denver. Before joining AMC, Thompson was on the faculty of the University of New Hampshire where he was a respected professor of Nutritional Sciences and the dedicated director of the Human Nutrition Center. He served as a senior research nutritionist at IIT Research Institute in Chicago from 1977 to 1979, where he made significant contributions to the field. Dr. Thompson earned his Ph.D. in nutritional sciences from Rutgers University with an emphasis in biochemistry. Following his doctoral work, Thompson received postdoctoral training in the Department of Molecular Medicine at the Mayo Clinic in Rochester, MN.



# 2025 Colorado Science & Engineering Fair

## Tours & Presentations

**Friday, April 4, 2025**

*These tours and presentations require a ticket to attend.*

### **Fort Collins Historic Weather Station Tour**

Participants will tour one of the longest operating weather stations in the western United States, showcasing the instruments that are used to measure temperature, humidity, precipitation, evaporation, winds, solar radiation and more. Participants will also learn how the data are used and how they can access the data for themselves. Tours are given by Noah Newman at 11 a.m. and 1 p.m.

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### **For the Love of Bees?**

Have you ever wondered what a bee dreams, the desires of a butterfly or the fears of a plant? Participants will learn about the interesting and surprising research around developing empathy for animals, plants and each other. We will stretch our own empathy muscles and explore science kits created by CSU and The Gardens to build empathy and understanding of our solitary bee species. Presentation is given by Ashley Krueger, Education and Community Engagement Coordinator and Lead Specialist at the Gardens on Spring Creek at 11 a.m.

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### **Natural Sciences Education & Outreach Center From Forests to Faucets STEM Kit Experience**

Participants will get to experience the NSEOC's hands-on, inquiry-based From Forests to Faucets STEM Kit that answers the questions: "How do clear-cutting and burning of forests impact the quantity and quality of water in rivers?" and "How do humans manage water scarcity?" The experience is led by NSEOC staff at 11 a.m. and lasts for 1 1/2 hours.

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### **Star Lab**

Come learn how to find first magnitude stars, locate Greek/Roman constellations, and hear myths. Presentations are given by Timnath Elementary School students at 11 a.m. and 12 p.m.

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### **Making High Tech Rocks**

Participants will tour the materials synthesis laboratory in the Department of Chemistry at Colorado State University. Tour is given by Dr. Jamie Neilson, Associate Professor in the Department of Chemistry at 12 p.m.

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### **Greenhouse Tour**

The tour will include the growth chamber, greenhouse bays and the conservatory where participants will get to see banana, pomegranate and coffee trees, a beautiful collection of orchids and even a turtle, fish and toad. Tour will be given by Tammy Brenner at 12 p.m.

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### **Forecasting the 2025 Atlantic Hurricane Season**

Hurricanes are some of the most destructive, terrifying and fascinating natural phenomena on Earth. This presentation will discuss how our research team at CSU develops and evaluates forecasts for each hurricane season in the Atlantic Ocean, and in particular, the upcoming 2025 season. It will include introductory material on hurricanes and then take a deep dive into the science of how we predict the coming hurricane season. This includes analysis of observation, our theoretical understanding of what drives hurricanes and our best attempts to use computer models of the Earth's climate to anticipate the future. We will also discuss the interesting history of this project which has been going on for more than 40 years at CSU. Presentation is given by Dr. Levi Silvers, Department of Atmospheric Sciences at 12 p.m.

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### **Human & Animal Anatomy/Physiology Lab**

Participants will be provided a presentation on the human body's anatomy and physiology using preserved isolated human organs to show the normal anatomy as well as show some pathologies to promote a healthy lifestyle. Participants will be able to gently handle organs such as human hearts, knee replacements, brains and more! Tour is given by CSU Biomedical Sciences Students at 1 p.m.

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### **The Science of YOU!**

Participants will tour CSU's Human Performance and Clinical Research Lab to see how researchers work to better understand how the human body works normally and how it changes with aging or disease. Tour is given by Dr. Rachel Doser, Postdoctoral Fellow in CSU's Hoernldi Lab at 1 p.m.

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### **Natural Sciences Education & Outreach Center Island Scrub Jay STEM Kit Experience**

Participants will get to experience the NSEOC's hands-on, inquiry-based Island Scrub Jay STEM Kit that is based on evolutionary research of the island scrub jays that live on The Channel Islands off the California coast. This experience is led by NSEOC staff at 1 p.m. and lasts for 1 1/2 hours.

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### **Biomedical Optics & Spectroscopy Lab Tour**

Our lab uses extremely short laser pulses and high-intensity optical interactions to see inside biological cells and tissues. Tour is given by Dr. Jesse Wilson, Associate Professor, Department of Electrical & Computer Engineering at 1 p.m.

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# 2025 Colorado Science & Engineering Fair

## Sponsors & Contributors

The Colorado State Science Fair, Inc. is an independent, nonprofit organization. For this reason, the Colorado Science & Engineering Fair only happens because of the generous donations of those private businesses, organizations, and individuals that provide support for the prize money, the ISEF trips, and other expenses. We thank you for encouraging Colorado's young scientists, engineers, and mathematicians through your generous support.

## Diamond Sponsors

provide support of \$10,000 or more



College of Natural Sciences  
Natural Sciences Education & Outreach Center



The Sara Volz Family

# 2025 Colorado Science & Engineering Fair Sponsors & Contributors

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provide support of \$5,000 - \$9,999

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## **Contributors**

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Virgil Wagner

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## **Colorado Gives Day 2025:**

December 9<sup>th</sup>

Schedule your Donation Today!





# 2025 Colorado Science & Engineering Fair

## Vital Statistics

295 Finalist Participants with 256 Exhibits from 13 Regional Science Fairs  
 132 Senior Division Finalists with 114 Exhibits  
 163 Junior Division Finalists with 142 Exhibits

Category	-Overall-	-----Division-----		-----Grade-----						
	Projects	Junior	Senior	6	7	8	9	10	11	12
Animal Sciences	17	10	7	0	4	6	2	1	0	4
Behavioral & Social Sciences	23	11	12	2	2	7	1	4	4	3
Biomedical & Health Sciences	30	17	13	3	5	9	5	3	4	1
Chemistry	23	16	7	3	7	6	3	2	2	0
Earth & Environmental Sciences	35	19	16	4	5	10	4	4	2	6
Energy	6	5	1	1	2	2	0	1	0	0
Engineering	26	15	11	3	6	6	5	2	3	1
Environmental Engineering	14	5	9	1	3	1	1	2	3	3
Mathematics & Computer Sciences	11	4	7	1	1	2	0	4	2	1
Micro & Molecular Biology	22	12	10	1	5	6	1	3	5	1
Physics & Astronomy	22	13	9	2	4	7	2	3	3	1
Plant Sciences	27	15	12	5	4	6	2	2	5	3
TOTAL Exhibits	256	142	114	26	48	68	26	31	33	24
TOTAL Finalists	295	163	132	28	53	82	28	34	37	33

### Schools/Teachers:

100 schools from throughout the state were represented, and 182 teachers and adults sponsored the students' projects. There were 47 high schools represented.

### Grand Award Judges:

Over 150 professional scientists and engineers volunteered to interview the Finalists for the grand awards.

### Special Awards:

At least 50 organizations, universities and individuals offered over 200 individual special awards and scholarships worth over \$60,000 to the finalists, judged by more than 100 professionals from those organizations.

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2025 Regeneron International Science and Engineering Fair: Columbus, OH: May 10 – 16

2026 Colorado Science & Engineering Fair: Colorado State University: April 9 - 11

Dates are subject to change.

# 2025 Colorado Science & Engineering Fair

## Alphabetical List of Finalists

Emily Abdulsalam	JR-PHYS-001	Anna Catinca Antohe	JR-BEHA-002	Bennett Esterday	SR-PLNT-004
Ali Abostate	SR-ENEV-001	Jack Cerullo	SR-MACS-301	Wensen Fang	JR-MACS-003
Addie Aldridge-Paulson	JR-ANIM-007	Solomon Charlton-Jones	JR-ENEV-002	Lea Feckova	SR-PLNT-303
Sierra Allen	SR-ANIM-001	Jude Chen	SR-ENGR-004	Mateo Feit	SR-ENGR-007
Paisley Anderson	JR-ENEV-001	Elsa Ciembronowicz	JR-BMED-002	Gabriel Ferguson	JR-PLNT-003
Amelie Andujar	JR-CHEM-301	Oliver Ciembronowicz	JR-MACS-002	John Finnessy	JR-ENGR-002
Cuinn Archer	SR-ENGR-001	Kaycee Clark	SR-PLNT-002	Gabriella Forristall	JR-PLNT-301
Emma Bahr	SR-EAEV-001	Elaina Consaul	JR-PLNT-001	Bryleigh Fox	SR-BMED-301
Stella Baker	SR-ENEV-003	Destiny Cornelius	SR-ENEV-301	Winston Luke Fulson	JR-ENGR-003
Ebony Banks	JR-PLNT-301	Hailey Cornelius	SR-BEHA-303	Reagan Futrell	SR-EAEV-005
Vaughn Bankston	SR-ENGR-002	Madison Cuckow	JR-CHEM-002	Angelina Gantumur	SR-CHEM-001
Emmett Rae Barger	JR-PHYS-002	Grace Cullen	JR-MCRO-001	Julia Gao	SR-PHYS-002
Cora Bauer	JR-ANIM-301	Dillon Curtis	SR-PHYS-301	Zachary Gao	SR-BEHA-004
Lily Beeby	JR-EAEV-001	Sydney Curtis	JR-BEHA-003	Augustus Gdanitz	SR-MCRO-002
Damian Bencomo	JR-ENGR-301	Taha Danisman	JR-EAEV-002	Elizabeth Lauren George	JR-BMED-004
*Mishika Bhatia	SR-BMED-001	Lochlan DaRonco	SR-EAEV-002	Elizabeth Gerk	JR-CHEM-003
Ella Blakeley	SR-BEHA-001	Thomas D'Attilo	JR-PLNT-002	Zhaleh Gonzalez	JR-CHEM-004
Ava Boblitt	JR-CHEM-001	Zander de Jager	SR-PLNT-003	Hugo Gonzalea Gomez	SR-BMED-003
Benjamin Boedeker	JR-BEHA-001	Ariadna de Tena	SR-PLNT-303	Evan Gopinath	JR-ENGR-010
Elle Bohnen	SR-PLNT-302	Hannah Deering	JR-ANIM-001	Payal Gopinath	JR-ENEV-003
Emmett Bohnen	JR-PHYS-301	Quinlan Dempsie	JR-ENGR-302	Fallyn Gregersen	JR-PHYS-006
Cooper Bolyard	JR-ENGR-001	Jocelyn Demster	JR-EAEV-301	Jack Griepentrog	SR-CHEM-002
Ethan Bonnell	SR-MACS-005	Colter Dennison	SR-EAEV-003	Liam Griffin	SR-EAEV-006
Lydia Boyd	SR-BEHA-002	Ansley DePue	JR-PLNT-004	AJ Gruenewald	SR-ANIM-301
Vivian Bozek	JR-PHYS-003	Alex Dicker	JR-ENGR-009	Mateo Guerrero	JR-BMED-005
Jordayn Brandon	JR-BMED-301	*Zechariah Dilley	SR-MCRO-001	Madison Gunnels	SR-PHYS-003
Lucy Brittain	JR-BMED-001	Luciana Dougherty	JR-EAEV-003	Nayla Gutierrez	JR-EAEV-302
Bianca Buczkowski	JR-ERGY-002	Haydan Drullinger	SR-ENGR-006	Madeleine Hahn	JR-MACS-004
Teagan Bruchez	SR-ANIM-002	Logan Drullinger	JR-EAEV-004	Arriya Haney	JR-MCRO-002
Nayibe Burciaga Buhaya	SR-PLNT-301	Morgan Drullinger	JR-EAEV-005	Sienna Harden	JR-ANIM-301
Tristan Cao	SR-PHYS-001	Daniel Rey Duran	SR-BEHA-003	Ky Harkness	SR-ENEV-301
Michael Caraher	JR-PHYS-004	Kandyce Ebright	JR-MCRO-301	Padyn Harris	SR-BMED-004
Maylin Carballo de la Cruz	SR-BMED-002	Braylon Einspahr	JR-PHYS-301	Eli Harrison	JR-MCRO-302
Zachary Carr	SR-ENGR-003	Elly Entz	JR-PHYS-005	Maci Hayes	JR-BMED-006
		*Lauren Erickson	SR-EAEV-004	Marin Hayes	JR-BEHA-004

# 2025 Colorado Science & Engineering Fair

## Alphabetical List of Finalists

Neave Henschel	JR-EAEV-006	Maya Lewis	JR-PHYS-009	Shelby Neal	JR-EAEV-009
Gwendolyn Hohl	SR-BMED-005	*James Little	SR-ENGR-009	Janet Ngomba Bajikijay	SR-PLNT-301
Olivia Hornung	JR-MCRO-301	Sihan "Hunter" Liu	SR-ENEV-005	Khloe Notter	JR-BMED-301
Paul Hornung	JR-PLNT-302	Isabella Lorenzini	SR-BEHA-302	Ernesto Ochoa-Marquez	SR-PLNT-005
*Tanner Houser	SR-PHYS-004	Jerry Lou	SR-BEHA-006	Ingram Olson	JR-ERGY-004
Juliet Huckabay	JR-BEHA-005	Elliot Louthan	JR-ENGR-004	Emilio Ortiz	SR-PLNT-006
Amelie Hunziker	SR-ANIM-301	Eugene Lucero	JR-ENGR-301	Kendyl Osborn	JR-EAEV-010
Hadley Huwa	JR-PLNT-005	Michael Ludden	JR-PLNT-008	Helen Ostrowski	JR-BEHA-007
Aarnav Jain	SR-BEHA-301	Bentley Ludington	JR-PLNT-302	Eashan Palakollu	JR-ENGR-008
Evan Jardine	JR-MCRO-003	Devon Mahorney	SR-ENGR-010	Devang Pandey	SR-MACS-006
Calvin Johnson	SR-BEHA-301	Sammy Maloney	JR-BEHA-006	Divyanshi Pandey	SR-BMED-008
Aishwarya Kamineni	SR-MACS-004	Omar Manshad	JR-ENGR-005	Jainil Parikh	JR-ENEV-004
Saahithi Kasa	SR-BMED-006	Braelyn Matson	JR-EAEV-301	Serene Park	SR-MCRO-004
Grayson Kassib	JR-PLNT-006	Lane Mattive	JR-PHYS-010	Siena Parr	SR-PLNT-007
Yezan Kassir	JR-PHYS-007	Ryan May	JR-PHYS-301	Azucena Perez	JR-PHYS-012
Skyler Kechter	JR-CHEM-005	Priya Mayjoy	SR-ANIM-003	Neha Pesaramelli	SR-CHEM-003
Cameron Kempisty	JR-EAEV-007	Mariah Mayorga	SR-PHYS-302	Anabelle Pettinger	JR-BEHA-008
Laurel Amber Kent	JR-ENGR-006	Kellen McClure	JR-ANIM-002	Mercedes Piepho	SR-PHYS-302
Chase Ketels	JR-PLNT-007	Terra McClure	SR-BEHA-007	Alexis Pinion	SR-BMED-301
Sage Ketels	SR-EAEV-007	*Lydia Mekelburg	SR-ANIM-004	*Chase Pollart	SR-EAEV-302
Lucy Kimminau	JR-BMED-301	Kayla Melby	JR-EAEV-008	Cy Poss	JR-EAEV-011
Maddox King	SR-ENGR-008	Aylin Melgar Bobadilla	JR-EAEV-302	Jace Poss	JR-EAEV-012
Booker Kite	JR-BMED-007	Humza Memon	JR-CHEM-007	Caprise Priestley	JR-PLNT-009
Alexander Knight	JR-PHYS-008	Izzy Michael	SR-PHYS-005	Caroline Prieto	SR-CHEM-301
Benjamin Knight	JR-ERGY-003	Clara Miller	JR-MCRO-004	Lillian Prime	SR-PHYS-006
Connor Knight	SR-ENGR-005	Gracie Miltenberger	JR-MCRO-301	Ryder Pryor	JR-ENEV-301
Jocelyn Kramer	JR-CHEM-006	Maxwell Minson	SR-MCRO-003	Bogar Quezada	SR-CHEM-004
Naomi Kruse	SR-ENEV-004	Kenley Mitchell	JR-CHEM-008	Emely Quijada	JR-CHEM-301
*Alex Kugler	SR-EAEV-301	Bode Monahan	JR-MACS-001	Joanna Raguraman	JR-BMED-003
*Zoe Kugler	SR-EAEV-301	Ryker Monahan	JR-PHYS-011	Ria Rajaseckharan	SR-MCRO-005
Abigail Lam	JR-BMED-008	Silas Morrison	JR-EAEV-303	Vedanth Raju	JR-BMED-009
Evelyn Lapp	JR-ERGY-301	Julia Muro	JR-MCRO-005	Zayn Rana	JR-ENGR-012
*Vanya Lavu	SR-BEHA-005	Natalie Muro	SR-ENEV-006	Anirudh Rao	JR-BMED-010
Roa Lee	SR-BMED-007	Ella Music	JR-ENGR-007	McKayla Red	JR-CHEM-009
Ainsley Lehman	JR-EAEV-301	Calvin Nabors	JR-ENGR-302	Layla Reiss	JR-BEHA-009

# 2025 Colorado Science & Engineering Fair

## Alphabetical List of Finalists

Finnley Reitz	JR-ANIM-003	Levi Spencer	JR-ANIM-005	Maddy Witt	SR-ERGY-001
Khaleesi Reynolds	JR-BEHA-010	Kyle Stahlecker	JR-PLNT-302	Cami Wolkow	SR-MCRO-009
Sky Richards	SR-EAEV-008	Grady Steerman	SR-PLNT-302	Natalia Woolcock	SR-BEHA-008
Collin Richardson	JR-CHEM-010	*Carson Stone	SR-EAEV-302	Violet Wunsch	JR-BMED-015
Emily Ridl	JR-MCRO-006	Cash Stone	JR-MCRO-009	Jenny Xu	SR-BMED-302
Meah Ring Hall	SR-PHYS-301	Chloe Stone	SR-BMED-010	Grace Xu	SR-MCRO-010
Gerardo Rodriguez Ramirez		Connor Stone	JR-ERGY-301	Calvin Yang-Jacobs	JR-CHEM-015
	JR-EAEV-013	Lyndee Thomson	JR-ENEV-301	Hailey Yarbrough	SR-PLNT-009
Archer Rogers	JR-BMED-011	Westlea Tipsword	SR-ANIM-005	Esaahn Yendamuri	SR-MACS-002
Nataly Rojas	JR-MCRO-007	Aidan Tipton	JR-EAEV-303	Adyson Young	JR-BMED-016
Taelynn Rojas	SR-MCRO-006	Luke Tollefson	JR-BEHA-011	Allan Luo Yu	SR-EAEV-014
Joaquin Romero	SR-EAEV-009	Gracie Typhair	JR-BMED-012	Alia Yund	JR-ANIM-009
Abigail Rosenhahn	SR-EAEV-010	Trinity Typhair	JR-BMED-013	Alexander Zhang	SR-BEHA-009
Sreyanth Saipavan Alla		Bianeta Ugwu	JR-CHEM-301	Amy Zhang	SR-MACS-001
	SR-MCRO-007	Reyansh Varma	JR-ANIM-006	Sophia Zhang	SR-CHEM-006
Mayssan Salim	SR-PLNT-301	Harley Vaughn	JR-EAEV-015	Ben Zhao	JR-EAEV-016
Violet Sandridge	JR-CHEM-011	*Om Vegesna	SR-PLNT-008	Amanda Zou	SR-BMED-302
Juakin Sawatzky	SR-EAEV-011	Varun Velmurugan	SR-ENEV-007		
Kassidy Schlepp	JR-CHEM-012	Arnav Venkatesh	SR-MCRO-008		
Alexis Schneider	SR-BEHA-303	Paisley Vezeau	SR-BEHA-302		
Jocelyn Schoenfeld	JR-CHEM-013	Hector Villicana Saucedo			
Maria Sears	SR-BMED-009		SR-PHYS-301		
Colt Sekich	JR-ERGY-001	Yasawini Vinjamuri	JR-PLNT-013		
Ava Shah	JR-ANIM-004	*Ayush Vispute	SR-MACS-003		
Zuneirah Shahin	JR-PLNT-010	Laila Waldron	SR-PLNT-001		
Kyle Shee	JR-PLNT-011	Peyton Walther	SR-CHEM-005		
Tanush Shekhar	SR-MACS-301	Helen Wan	SR-PHYS-007		
Hannah Shelton	SR-EAEV-012	Zoe Wang	SR-ENEV-008		
Nora Simmons	SR-EAEV-013	Jagadish White	JR-MCRO-302		
Siddhi Singh	SR-ENEV-002	Chloe Whiton	SR-ANIM-006		
Anmoldeep Singh Gill		Tyler Wickham	SR-ENGR-011		
	JR-MCRO-008	Maci Widger	JR-ENGR-013		
Xander Skul	JR-ENGR-011	Isabella Widler	SR-BMED-011		
Layna Snyder	SR-CHEM-301	Paisley Wiersma	JR-MCRO-010		
Allyson Solze	JR-EAEV-014	Jessa Wilson	JR-ANIM-008		
Lola Sondrol	JR-PLNT-012	Sierra Winslow	JR-CHEM-014		
		Travis Wise	JR-BMED-014		

\*Regional Science Fair Regeneron  
International Science & Engineering Fair  
Finalist

# 2025 Colorado Science & Engineering Fair

## Senior Division Finalists

### Animal Sciences

- SR-ANIM-001 *Colors from A Dog's Perspective*  
**Sierra Allen** - 12th grade - Genoa-Hugo School – Hugo - William Mallory
- SR-ANIM-002 *The Effects of the Transfer of Wolves and the Fertility Rate of Grand County Cattle*  
**Teagan Bruchez** - 10th grade - West Grand High School – Kremmling - Penny Bruchez
- SR-ANIM-003 *Monitoring Apis Mellifera Linnaeus for Winter Survival, Year Two*  
**Priya Mayjoy** - 9th grade - Lamar High School – Lamar - Robin Staker
- SR-ANIM-004 *Year Two- Spatial Analysis of Chronic Wasting Disease in Northern Colorado Deer Populations: Analysis of Age Structure Utilizing Cementum Annuli*  
**Lydia Mekelburg** - 12th grade - Yuma High School – Yuma - Amy Melby

- SR-ANIM-005 *Effects of Vitamin E Supplements on Horse Health and Performance*  
**Westlea Tipword** - 9th grade – Homeschool – Saguache - Stephanie Archuleta
- SR-ANIM-006 *The Snack Snatcher Stopper: "An Automatic Locking Dog Bowl"*  
**Chloe Whiton** - 12th grade - Centaurus High School – Louisville - Nicholas Cady
- SR-ANIM-301 *Reaching New Lights: An Explorative Study on the Occurrence of Biofluorescence in Amphibia*  
**Amelie Hunziker** - 12th grade - Monarch High School – Louisville - Eric Gordon  
**AJ Gruenewald** - 12th grade - Monarch High School – Louisville - Eric Gordon

### Behavioral & Social Sciences

- SR-BEHA-001 *Perceptions Across Generations: Analyzing Age-Related Differences in Distinguishing Between AI and Real Facial Stimuli*  
**Ella Blakeley** - 11th grade - Palmer Ridge High School – Monument - Stephanie Markle
- SR-BEHA-002 *ADHD in the San Luis Valley*  
**Lydia Boyd** - 10th grade - Monte Vista High School - Monte Vista - Loree' Harvey
- SR-BEHA-003 *Task Tuned-Tunes*  
**Daniel Rey Duran** - 10th grade - Rocky Ford Jr/Sr High School - Rocky Ford - Jason Bacolod
- SR-BEHA-004 *Impacts of Political Views on Donations to Refugees with Different Linguistic Framing*  
**Zachary Gao** - 11th grade - Cherry Creek High School - Greenwood Village - Wenlei Gao
- SR-BEHA-005 *Developing a Novel Enzyme Therapy for Improving GAD and Gastrointestinal Health in Rats*  
**Vanya Lavu** - 12th grade - The Classical Academy - Colorado Springs - Lori Driscoll

- SR-BEHA-006 *The Effects of Cartoons on Developing Healthy Eating Habits in Children*  
**Jerry Lou** - 11th grade - Stargate Charter School – Thornton - Sandy Xin
- SR-BEHA-007 *Analysis of Patient Perceived Side Effects of Medically Induced Eye Dilation*  
**Terra McClure** - 9th grade - Rocky Ford Jr/Sr High School - Rocky Ford - Warren McClure
- SR-BEHA-008 *Reimagine Meat Labeling: Could We Change Buyer Choices and Lower Greenhouse Emissions by Adding Carbon Footprint Data to Consumer Labels?*  
**Natalia Woolcock** - 10th grade - The Academy of Charter Schools – Westminster - Glenn Gould
- SR-BEHA-009 *SchoolFinance: A Novel Machine Learning Framework for Optimized School Funding Allocation*  
**Alexander Zhang** - 12th grade - Fairview High School – Boulder - Paul Strode
- SR-BEHA-301 *Sympathetic Nervous System Activation Effects on Short-Term Memory in a Virtual Environment*  
**Calvin Johnson** - 12th grade - Peak to Peak Charter School – Lafayette - Robert Hettmansperger

# 2025 Colorado Science & Engineering Fair

## Senior Division Finalists

### Behavioral & Social Sciences cont.

SR-BEHA-302

**Aarnav Jain** - 12th grade - Peak to Peak Charter School – Lafayette - Robert Hettmansperger

SR-BEHA-302 *The Mandala Effect: Identifying Confirmation Bias*

**Paisley Vezeau** - 10th grade - Ignacio High School – Ignacio - Crystal Redman  
**Isabella Lorenzini** - 11th grade - Ignacio High School – Ignacio - Crystal Redman

### Biomedical & Health Sciences

SR-BMED-001 *Saw Palmetto-Induced Inhibition of 5 $\alpha$ -reductase as a Clinical Treatment for PCOS Symptoms*

**Mishika Bhatia** - 11th grade - Rock Canyon High School – Littleton - Susanne Petri

SR-BMED-002 *Effects of Soap on Skin's pH Utilizing a Synthetic Skin Model*

**Maylin Carballo de la Cruz** - 9th grade - Yuma High School – Yuma - Amy Melby

SR-BMED-003 *Sweaty Dudes*

**Hugo Gonzalea Gomez** - 9th grade - West Grand High School – Kremmling - Emmylou Harmon

SR-BMED-004 *My Heart*

**Padyn Harris** - 10th grade - Limon Jr/Sr High School – Limon - Becky Thompson

SR-BMED-005 *Not for the Squeamish! How Accurate Is the Kastle-Meyer Blood Test?*

**Gwendolyn Hohl** - 9th grade - Genoa-Hugo School – Hugo - William Mallory

SR-BMED-006 *Up in Smoke: The Effect of Protective Topical Ointment Against Wildfire Particle Penetration*

**Saahithi Kasa** - 11th grade - Cherry Creek High School -Greenwood Village -Ethan Dusto

SR-BMED-007 *MMP-Deactivating Therapeutic Contact Lenses for Corneal Melting*

**Roa Lee** - 11th grade - Mountain Vista High School - Highlands Ranch - Heather Riggs

SR-BMED-008 *Simulating Cardiovascular Flow in a Fontan Heart*

**Divyanshi Pandey** - 10th grade - Peak to Peak Charter School – Lafayette - Bayley Zubler

SR-BMED-009 *Lung Distance Relationship: A Remote Monitoring Device That Tracks Pulmonary Function*

**Maria Sears** - 12th grade - Monte Vista High School - Monte Vista - Loree' Harvey

SR-BMED-010 *The Heart of Music*

**Chloe Stone** 10th grade - Limon Jr/Sr High School – Limon - Becky Thompson

SR-BMED-301 *Squeezable C: Quantitative Analysis of Vitamin C Content in Freshly Squeezed Fruits by Titration*

**Alexis Pinion** - 9th grade - Genoa-Hugo School – Hugo - William Mallory

**Bryleigh Fox** - 9th grade - Genoa-Hugo School – Hugo - William Mallory

SR-BMED-302 *Disrupting PCSK9 and ANGPTL3 Genes with CRISPR for Hypercholesterolemia Treatment*

**Jenny Xu** - 11th grade - Fairview High School – Boulder - Xiaojuan Zhang

**Amanda Zou** - 11th grade – Peak to Peak Charter School – Lafayette - Xiaojuan Zhang



# 2025 Colorado Science & Engineering Fair

## Senior Division Finalists

### Chemistry

- SR-CHEM-001 *Impact of Cornstarch on Bath Bombs*  
**Angelina Gantumur** - 10th grade - SkyView Academy - Highlands Ranch - Gantumur Otgon
- SR-CHEM-002 *Baking the Perfect Chocolate Chip Cookie*  
**Jack Griepentrog** - 9th grade - SkyView Academy - Highlands Ranch - Danielle Griepentrog
- SR-CHEM-003 *Measuring Chemical Kinetics in High School Labs*  
**Neha Pesaramelli** - 11th grade - Peak to Peak Charter School – Lafayette - Kurt Schaefer
- SR-CHEM-004 *Desulfurization*  
**Bogar Quezada** - 10th grade - Sierra Grande High School – Blanca - Hansel Garcia

- SR-CHEM-005 *Flicker and Flame: A Showdown of Candle Wax Burn Rates*  
**Peyton Walther** - 9th grade - SkyView Academy - Highlands Ranch - Richard Walther
- SR-CHEM-006 *Natural Eutectogels as a Novel Material for Green Electronic Skin*  
**Sophia Zhang** - 11th grade - Fairview High School – Boulder - Rong Long
- SR-CHEM-301 *The Lake Nyos Tragedy: What Caused It?*  
**Layna Snyder** - 9th grade - Brush High School – Brush - Erik Stone  
**Caroline Prieto** - 9th grade - Brush High School – Brush - Erik Stone

### Earth & Environmental Sciences

- SR-EAEV-001 *Effect of Temperature on Growth of Diatoms Skeletonema costatum and Ditylum brightwellii*  
**Emma Bahr** - 12th grade - Palmer High School - Colorado Springs - Nathaniel Lohmann
- SR-EAEV-002 *Bear Creek Geological and pH Analysis*  
**Lochlan DaRonco** - 12th grade - Evergreen High School – Evergreen - Cal Ruleman
- SR-EAEV-003 *Toxic Tributaries 2: Rivers Effect on Soil Chemistry*  
**Colter Dennison** - 9th grade - Mancos High School – Mancos - Sensa Wolcott
- SR-EAEV-004 *The Effect of Fire Mitigation on Avian Biodiversity as Measured Through Bioacoustics*  
**Lauren Erickson** - 12th grade - Evergreen High School – Evergreen - Stephanie Seevers
- SR-EAEV-005 *Gaining Ground: Effectiveness of Zeedyk Structures on Herbaceous Establishment and Moisture Retention within Waterways*  
**Reagan Futrell** - 11th grade - Monte Vista High School - Monte Vista - Loree' Harvey
- SR-EAEV-006 *An Absorbent Advantage: Using Wool Pellets to Conserve Water in Soil*  
**Liam Griffin** - 9th grade - Sargent High School - Monte Vista - Rafe Paulson

- SR-EAEV-007 *Microplastics Quantification of Waterfowl in SE Colorado & SW Kansas*  
**Sage Ketels** - 9th grade - Lamar High School – Lamar - Robin Staker
- SR-EAEV-008 *Can I Drink That?*  
**Sky Richards** - 11th grade - Stratton Schools – Stratton - Dannette McConnell
- SR-EAEV-009 *Bio Guardians: Nature's Water Purifiers*  
**Joaquin Romero** - 10th grade - Rocky Ford Jr/Sr High School - Rocky Ford - Jason Bacolod
- SR-EAEV-010 *Plants Built for the Future: Testing the Effects of Different Mediums on Cost Effective Hydroponic Lettuce Growth*  
**Abigail Rosenhahn** - 10th grade - Palmer High School - Colorado Springs - Nathaniel Lohmann
- SR-EAEV-011 *Developing an Economical Method of Extracting REM from Mine Effluent Water*  
**Juakin Sawatzky** - 10th grade - Liberty School – Joes - Linda Fogale
- SR-EAEV-012 *Sediment Signatures: Unveiling the Impact of Sedimentary Deposits on Diatoms Through Lake Bottom Sampling*  
**Hannah Shelton** - 12th grade - Centauri High School - La Jara - Andrew Shelton
- SR-EAEV-013 *Seasonal Precipitation Swings and*

# 2025 Colorado Science & Engineering Fair

## Senior Division Finalists

*Their Impacts on Wildfires in Colorado*  
**Nora Simmons** - 12th grade - Broomfield High

School – Broomfield - Andrew Hoell

### Earth & Environmental Sciences cont.

SR-EAEV-014 *The Effects of Climate Change on Allergens and Human Health*  
**Allan Luo Yu** - 10th grade - Fairview High School  
 – Boulder - Ryan Langendorf

SR-EAEV-301 *Comparison of Aurora Activity with Thermosphere Na and Fe (TiNa and TiFe) Layers at McMurdo Station*  
**Alex Kugler** - 12th grade - Monarch High School –  
 Louisville - Eric Gordon  
**Zoe Kugler** - 12th grade - Monarch High School –  
 Louisville - Eric Gordon

SR-EAEV-302 *Water Tower Power - Storing Solar Energy with an Elevated Pumped Storage Hydropower System*  
**Carson Stone** - 9th grade - Brush High School –  
 Brush - Erik Stone  
**Chase Pollart** - 10th grade – Prairie High School –  
 Raymer – Erik Stone

### Energy

SR-ERGY-001 *AGM vs. Acid*  
**Maddy Witt** - 10th grade - Limon Jr/Sr High School  
 – Limon - Becky Thompson

### Engineering

SR-ENGR-001 *Smart Wheels: An RC Car That Measures and Analyzes Shapes*  
**Cuinn Archer** - 9th grade - Mancos High School –  
 Mancos - Brady Archer

SR-ENGR-002 *Unmanned Aerial Vehicle Iteration IX*  
**Vaughn Bankston** - 9th grade - Mancos High School –  
 Mancos - Dallas Bankston

SR-ENGR-003 *Self-Sustaining Water Flow*  
**Zachary Carr** - 11th grade - Limon Jr/Sr High School –  
 Limon - Becky Thompson

SR-ENGR-004 *Development of Digital Correlation Software to Evaluate Mechanical Properties of 3D-Printed Polymers for Sustainable Material Innovation*  
**Jude Chen** - 10th grade - Fairview High School –  
 Boulder - Hemant Sethi

SR-ENGR-005 *Engineering a Homemade Wind Tunnel to Test Airfoil Designs*  
**Connor Knight** - 9th grade - East High School –  
 Pueblo - Sharon Knight

SR-ENGR-006 *AgriVision: Augmented Reality for Precision Farming*  
**Haydan Drullinger** - 11th grade - Liberty School –  
 Joes - Linda Fogale

SR-ENGR-007 *The PetProfiler: Machine Learning and Mechanics for a Smart Doggy Door*  
**Mateo Feit** - 9th grade - Fairview High School –  
 Boulder - Adam Feit

SR-ENGR-008 *Future Development of a Computer Chip: Year 1 - Coding*  
**Maddox King** - 10th grade - Yuma High School –  
 Yuma - Amy Melby

SR-ENGR-009 *Shooting for the Stars*  
**James Little** - 11th grade - Monte Vista High School - Monte Vista - Loree' Harvey

SR-ENGR-010 *Road Ready*  
**Devon Mahorney** - 9th grade - West Grand High School –  
 Kremmling - Emmylou Harmon

SR-ENGR-011 *Breathe Easy: Comfort-Focused Respirators for Wildland Firefighters*  
**Tyler Wickham** - 12th grade - Golden High School –  
 Golden - Sean Jones

# 2025 Colorado Science & Engineering Fair

## Senior Division Finalists

### Environmental Engineering

SR-ENEV-001 *The Role of Green Roofs in Urban Sustainability*

**Ali Abostate** - 12th grade - Lotus School for Excellence – Aurora - Alexandre Scott

SR-ENEV-003 *Small Scale Erosion Control*

**Stella Baker** - 12th grade - Evergreen High School – Evergreen - Stephanie Seevers

SR-ENEV-004 *Paper for the Planet 2: Kickstarting Microbial Succession Following California Wildfires*

**Naomi Kruse** - 11th grade - Schullandheim Homeschool - Colorado Springs - Tami Kruse

SR-ENEV-005 *Sustainable Nitrate Remediation and Ammonia Production via Electrocatalysis Using a One-Dimensional Ni-BTA Coordination Polymer*

**Sihan "Hunter" Liu** - 10th grade - Colorado Rocky Mountain School – Carbondale - Fujun Liu

SR-ENEV-006 *A Sustainable Cyanobacteria*

*Mitigation Method for Freshwater Ecosystems in the Rocky Mountain Region*

**Natalie Muro** - 11th grade - Palmer High School - Colorado Springs - Nathaniel Lohmann

SR-ENEV-008 *From Bench to Atmosphere: New Materials for the Direct Air Capture (DAC) of CO<sub>2</sub> Using Electro-Swing Chemistry*

**Zoe Wang** - 10th grade - Fairview High School – Boulder - Xiang Wang

SR-ENEV-301 *Biochar: An Organic Approach to Urban Heat Management*

**Destiny Cornelius** - 12th grade - Plainview School – Towner - Brenda Fickenscher

**Ky Harkness** - 12th grade - Plainview School – Towner - Brenda Fickenscher

### Mathematics & Computer Sciences

SR-MACS-001 *AI Guides, Vision-Impaired Act: Safety-Aware Actionable Guidance Via Vision-Language Models*

**Amy Zhang** - 10th grade - Lakewood High School – Lakewood - Casey Walter

SR-MACS-002 *MotionMatics: An AI Solution for Movement Comparison and Feedback*

**Esaahn Yendamuri** - 10th grade - Rock Canyon High School - Highlands Ranch - Amulya Gampala

SR-MACS-003 *Protein Flow v2: Biocomputational Analysis of Metabolic Pathways to Discover New Carbon Capturing Bacteria*

**Ayush Vispute** - 10th grade - Rampart High School - Colorado Springs - Pankaj Vispute

SR-MACS-005 *A Cohesive Method of Subterranean Object Detecting Using Infrared Sensors*

**Ethan Bonnell** - 11th grade - Centaurus High School – Lafayette - Eric Mattys

SR-MACS-301 *Revolutionizing CryoEt: Novel Simulation Techniques for ML-Based Tomograph Labeling*

**Tanush Shekhar** - 11th grade - Peak to Peak Charter School – Lafayette - Bayley Zubler

**Jack Cerullo** - 12th grade - Peak to Peak Charter School – Lafayette - Bayley Zubler

# 2025 Colorado Science & Engineering Fair

## Senior Division Finalists

### Micro & Molecular Biology

SR-MCRO-001 *Cloning and Testing of Phage Genes*  
**Zechariah Dilley** - 11th grade - South High School  
 – Pueblo - Amaya Garcia Costas

SR-MCRO-002 *The Use of Zeolites in Mitigating Red Algae Blooms*  
**Augustus Gdanitz** - 11th grade - Wray Jr/Sr High School – Wray - Danae Knust

SR-MCRO-004 *The Effect of Glyphosate on Bacillus subtilis Biofilm*  
**Serene Park** - 11th grade - Cherry Creek High School - Greenwood Village - Ethan Dusto

SR-MCRO-005 *Glycopeptidolipids: A New Diagnostic Tool for COPD and Cystic Fibrosis Patients Infected with Non-Tuberculous Mycobacteria*  
**Ria Rajaseckharan** - 10th grade - Fossil Ridge High School - Fort Collins - Vishnu Rajasekharan

SR-MCRO-006 *MIC Drop: Determination of the MIC of Phenol, Hydroquinone, and Naphthalene for Two Species at the Base of an Aquatic Food Web*  
**Taelynn Rojas** - 9th grade - Liberty School – Joes - Linda Fogale

SR-MCRO-007 *BactiScan: A Deep Convolutional Neural Network for Tracking Shigella flexneri Infection*

**Sreyanth Saipavan Alla** - 11th grade - Rock Canyon High School - Castle Pines - Desmond Hamilton

SR-MCRO-008 *Enhancing Microbot Functionality Through Single Layered Hydrogels*  
**Arnav Venkatesh** - 10th grade - Grandview High School – Aurora - Venkatesh Ananthanarayan

SR-MCRO-009 *Genetically Enhancing Fungi to Bioremediate Tetracycline*  
**Cami Wolkow** - 11th grade - Palmer High School - Colorado Springs - Tom Wolkow

SR-MCRO-010 *The Effects of L-Dopa on Probiotic Bacteria*  
**Grace Xu** - 10th grade - Fairview High School – Boulder - Graham Redweik

### Physics & Astronomy

SR-PHYS-001 *Emergent Quantum Inductance in Chiral Orbital Current State*  
**Tristan Cao** - 11th grade - Stargate Charter School – Thornton - Gang Cao

SR-PHYS-002 *Toward Discovery of the Sterile Neutrino: Deep Learning Muon Neutrino Reconstruction at ICARUS*  
**Julia Gao** - 10th grade - Fairview High School – Boulder - Michael Mooney

SR-PHYS-004 *Demonstrating the Effect of Decoherence on Quantum Computers*  
**Tanner Houser** - 11th grade - Sargent High School - Monte Vista - Rafe Paulson

SR-PHYS-005 *Bone Trauma Analysis*  
**Izzy Michael** - 9th grade - Green Mountain High School – Lakewood - Jen Flores

SR-PHYS-006 *Analysis and Comparison of Gravitational Wave Event Parameters*  
**Lillian Prime** - 12th grade - Palmer High School - Colorado Springs - Nathaniel Lohmann

SR-PHYS-007 *Time-Sensitive Medicine Dissolution in a Microgravity Environment Emulated by Acoustic Levitation*

**Helen Wan** - 10th grade - Pine Creek High School - Colorado Springs - Sanjukta Lahiri

SR-PHYS-301 *Modeling the Flight Paths of Conical Meteorites*

**Dillon Curtis** - 10th grade- Brush High School – Brush - Erik Stone

**Meah Ring Hall** - 12th grade - Brush High School – Brush - Erik Stone

**Hector Villacana Saucedo** - 10th grade - Brush High School – Brush - Erik Stone

SR-PHYS-302 *Non-Newtonian Fluid: The New Armor - Impact Force on Non-Newtonian Fluid*  
**Mariah Mayorga** - 11th grade - Brush High School – Brush - Erik Stone  
**Mercedes Piepho** - 11th grade - Brush High School – Brush - Erik Stone

# 2025 Colorado Science & Engineering Fair

## Senior Division Finalists

### Plant Sciences

SR-PLNT-001 *Differences in Floral Quality and Ecosystem Health Between Burn Areas and Logged Clear Cuts*

**Laila Waldron** - 12th grade - Nederland High School – Nederland - Rea Orthner

SR-PLNT-002 *Cheater Cheater Rangeland Eater: A Study on Mitigating the Spread of Downy Brome Using Pseudomonas Fluoresens D7 and ACK55*

**Kaycee Clark** - 9th grade - Wray Jr/Sr High School – Wray - Danae Knust

SR-PLNT-003 *Land Vs. Water: Exploring Plant Cell Pressures in Different Ecosystems*

**Zander de Jager** - 11th grade - Evergreen High School – Evergreen - Stephanie Seevers

SR-PLNT-004 *Avant-Garde Agriculture: Indole-3-Acetic Acid and Growth in Tomatoes*

**Bennett Esterday** - 10th grade - Animas High School – Durango - Lee Ann Harbison

SR-PLNT-005 *The Effects of Soil Texture on Growth of S. tubersum, M. sativa, and Z. mays*

**Ernesto Ochoa-Marquez** - 11th grade - Monte Vista High School - Monte Vista - Loree' Harvey

SR-PLNT-006 *Soil Additives Are Spud-Tacular*

**Emilio Ortiz** - 11th grade - Monte Vista High School - Monte Vista - Loree' Harvey

SR-PLNT-007 *Absorption of Glyphosate-Based Herbicide in Zea Mays Plants Utilizing Zinc-Oxide Nanoparticles*

**Siena Parr** - 12th grade - Dolores High School – Dolores - Dave Hopcia

SR-PLNT-008 *Combating Root-Knot (Meloidogyne spp.) and Fusarium oxysporum with Stabilized Allicin and siRNA Constructs*

**Om Vegesna** - 10th grade - Fairview High School – Boulder - Jonathan Henn

SR-PLNT-009 *The Effects of Grey Water on Agricultural Crops*

**Hailey Yarbrough** - 9th grade - Green Mountain High School – Lakewood - Jen Flores

SR-PLNT-301 *The Effect of Nanoparticles on Plant Growth*

**Janet Ngomba Bajikijay** - 12th grade - Lotus School for Excellence – Aurora - Mehmet Ates

**Mayssan Salim** - 12th grade - Lotus School for Excellence – Aurora - Mehmet Ates

**Nayibe Burciaga Buhaya** - 12th grade - Lotus School for Excellence – Aurora - Mehmet Ates

SR-PLNT-302 *Dangerous Weeds*

**Elle Bohnen** - 11th grade - Stratton Schools – Stratton - Dannette McConnell

**Grady Steerman** - 11th grade - Stratton Schools – Stratton - Dannette McConnell

SR-PLNT-303 *Lights, Plants, Action*

**Ariadna de Tena** - 11th grade - Stratton Schools – Stratton - Dannette McConnell

**Lea Feckova** - 12th grade - Stratton Schools – Stratton - Dannette McConnell

## Entrance



# 2025 Colorado Science & Engineering Fair

## Junior Division Finalists

### Animal Sciences

- JR-ANIM-001 *The Potential Relationship Between Tibia Length and Speed in Samoyed Dogs Running 100 Yards*  
**Hannah Deering** - 7th grade - Yuma Middle School – Yuma - Amy Melby
- JR-ANIM-002 *The Differences in Temperature and Moisture Between the Pogonomymex Occidentalis and the Pogonomymex Rugosus*  
**Kellen McClure** - 7th grade - Rocky Ford Jr/Sr High School - Rocky Ford - Jason Bacolod
- JR-ANIM-003 *The Great Quail Query*  
**Finnley Reitz** - 7th grade - Lamar Middle School – Lamar - Ashley Roseberry
- JR-ANIM-004 *How Exercise Affects Stress Levels in Horses*  
**Ava Shah** - 8th grade - Summit Charter Middle School – Boulder - Valerie Keeney
- JR-ANIM-005 *Light Triggers on Serotonin Levels*  
**Levi Spencer** - 8th grade - Liberty School – Joes - Linda Fogale

- JR-ANIM-006 *Effects of Light Color and Intensity on Newly Hatched Brine Shrimp*  
**Reyansh Varma** - 8th grade - Summit Charter Middle School – Boulder - Valerie Keeney
- JR-ANIM-007 *Can You Hear Me Now? A Study of the Efficacy of Equine Ear Plugs*  
**Addie Aldridge-Paulson** - 8th grade - Sargent Middle School - Monte Vista - Terri Paulson
- JR-ANIM-008 *Holy Buckets*  
**Jessa Wilson** - 8th grade - Wiggins Middle School – Wiggins - Regan Wilson
- JR-ANIM-009 *Turn and Burn Baby: Does the Color of the Barrel Really Affect Your Run Time?*  
**Alia Yund** - 8th grade - Centauri Middle School - La Jara - Andrew Shelton
- JR-ANIM-301 *Are Dewormers Needed Here?*  
**Sienna Harden** - 7th grade - St. Joseph Catholic School - Fort Collins - Marianne Aiken  
**Cora Bauer** - 8th grade - St. Joseph Catholic School - Fort Collins - Marianne Aiken

### Behavioral & Social Sciences

- JR-BEHA-001 *Hot Shot: An Observational Study of 5th Grade Boy Basketball Shot Percentage Evaluation and Optimization*  
**Benjamin Boedeker** - 7th grade - Fort Morgan Middle School - Fort Morgan - Heather Wright
- JR-BEHA-002 *Assessing ChatGPT Effectiveness as a Study Tool for Improving Test Results Over Classical Learning Strategy*  
**Anna Catinca Antohe** - 7th grade - Challenge School – Aurora - Daniel Antohe
- JR-BEHA-003 *Tech or Talk? An Analysis of Training Methods for Muscle Memory*  
**Sydney Curtis** - 8th grade - Sargent Middle School - Monte Vista - Terri Paulson
- JR-BEHA-004 *No Need for Speed*  
**Marin Hayes** - 8th grade - Boulder Country Day School – Boulder - Karen Morton

- JR-BEHA-005 *The Impact of Age on Pattern Separation and Completion*  
**Juliet Huckabay** - 8th grade - Skinner Middle School – Denver - Kate Zappitelli
- JR-BEHA-006 *Breaking Barriers: Language Learning and Cultural Understanding*  
**Sammy Maloney** - 8th grade - Bayfield Middle School – Bayfield - Kris McSweeney
- JR-BEHA-007 *Who Wrote It? How Genre Affects Students' Ability to Detect AI*  
**Helen Ostrowski** - 8th grade - Monument Academy – Monument - Karl Brown
- JR-BEHA-008 *Technology with the Youth*  
**Anabelle Pettinger** - 8th grade - Vilas Schools – Vilas - Pam Nicodemus
- JR-BEHA-009 *Saving the Team*  
**Layla Reiss** - 8th grade - Summer Charter Middle School – Boulder - Valerie Keeney

# 2025 Colorado Science & Engineering Fair

## Junior Division Finalists

### Behavioral & Social Sciences continued

JR-BEHA-010 *Masking Medication: Finding a Way to Mask the Taste of Medication with Top Dressings with Boer Goats*  
**Khaleesi Reynolds** - 6th grade - Sargent Middle School - Monte Vista - Terri Paulson

JR-BEHA-011 *Where's Waldo: A Study on Attention Using Eye Tracking*  
**Luke Tollefson** - 6th grade - St. John the Evangelist Catholic School – Loveland - Michelle Tollefson

### Biomedical & Health Sciences

JR-BMED-001 *Mosquito Bite: West Nile Fright 2*  
**Lucy Brittain** - 8th grade - Creede Schools – Creede - Bryan Eubank

JR-BMED-002 *Original Kitchen Insulin*  
**Elsa Ciembronowicz** - 7th grade - Vallis Cymbia Academaie Homeschool – Frederick - Hana Ciembronowicz

JR-BMED-003 *Mnemonic Metamorphosis: Evidence for Persistence Memory Store Beyond the Brain in Regenerated Planarian Flatworms*  
**Joanna Raguraman** - 7th grade - Discovery Canyon Middle School - Colorado Springs - Beulah Aloysius

JR-BMED-004 *Which Glucose Monitor Is Most Accurate?*  
**Elizabeth Lauren George** - 8th grade - West Grand Middle School – Kremmling - Katie DeBell

JR-BMED-005 *Fruit Flies Attraction to Different Doughs to Conclude Health Inferences*  
**Mateo Guerrero** - 8th grade - Summer Charter Middle School – Boulder - Valerie Keeney

JR-BMED-006 *The More You Grow, The More You Know*  
**Maci Hayes** - 8th grade - West Grand Middle School – Kremmling - Katie DeBell

JR-BMED-007 *How Often Should You Really Wash Your Bedding?*  
**Booker Kite** - 6th grade - Idalia School – Idalia - Kelli Kite

JR-BMED-008 *The Human Body in Space*  
**Abigail Lam** - 8th grade - Flagstaff Academy Charter School – Longmont - Lauren Liedtke

JR-BMED-009 *A Novel Plant-Based Topical Drug "Curcaza+" to Help Treat Diabetic Foot Ulcers/Infections and Help Reduce Antimicrobial Resistance*  
**Vedanth Raju** - 7th grade - Aurora Quest K-8 School – Aurora - Srikanth Raju

JR-BMED-010 *A Novel Approach to Wound Management Using Hydro Voltaic Sensors*  
**Anirudh Rao** - 7th grade - STEM School - Highlands Ranch - Bharathi Rao

JR-BMED-011 *Testing the Hydration of Cosmetic Facemasks*  
**Archer Rogers** - 6th grade - Genoa-Hugo School – Hugo - Nicolas Rogers

JR-BMED-012 *All Hands On*  
**Gracie Typhair** - 7th grade - West Grand Middle School – Kremmling - Katie DeBell

JR-BMED-013 *You Are What You Eat*  
**Trinity Typhair** - 8th grade - West Grand Middle School – Kremmling - Katie DeBell

JR-BMED-014 *Analysis of Glucose Levels in Food to Aid in Hypoglycemic Recovery*  
**Travis Wise** - 8th grade - Liberty School – Joes - Linda Fogale

JR-BMED-015 *Is There Really Lead in Tampons?*  
**Violet Wunsch** - 8th grade - Wiggins Middle School – Wiggins - Roger Wunsch

JR-BMED-016 *How Can Probiotics Influence the Growth of Bacteria?*  
**Adyson Young** - 6th grade - Bayfield Middle School – Bayfield - Kris McSweeney

# 2025 Colorado Science & Engineering Fair

## Junior Division Finalists

### Biomedical & Health Sciences continued

JR-BMED-301 *Taping or Cupping?*  
**Jordayn Brandon** - 8th grade - Stratton Schools –  
 Stratton - Dannette McConnell  
**Lucy Kimminau** - 8th grade - Stratton Schools –  
 Stratton - Dannette McConnell  
**Khloe Notter** - 8th grade - Stratton Schools –  
 Stratton - Dannette McConnell

### Chemistry

JR-CHEM-001 *Neutralizing Acid from Acid Mine  
 Drainage in Silverton, Colorado*  
**Ava Boblitt** - 6th grade - Bayfield Middle School  
 – Bayfield - Kris McSweeney

JR-CHEM-002 *From the Field to Fuel*  
**Madison Cuckow** - 6th grade - Wiggins Middle  
 School – Wiggins - Colby Neeley

JR-CHEM-003 *A World of Water*  
**Elizabeth Gerk** - 7th grade - Wiggins Middle  
 School – Wiggins - Paul Gerk

JR-CHEM-004 *The Effect of Different Natural  
 Preservatives on Sliced Avocado in Open Air*  
**Zhaleh Gonzalez** - 7th grade - Skinner Middle  
 School – Denver - Becca Glosser

JR-CHEM-005 *Debunking the Bath*  
**Skyler Kechter** - 7th grade - Liberty School –  
 Joes - Linda Fogale

JR-CHEM-006 *To Be or Not To Be Organic*  
**Jocelyn Kramer** - 8th grade - Good Shepherd  
 Catholic School – Denver - Annette Humphrey

JR-CHEM-007 *From Kitchen to Energy:  
 Leveraging Fermentation Enhancers for Improved  
 Biogas Production*  
**Humza Memon** - 7th grade - Crescent View  
 Academy – Aurora - Asma Memon

JR-CHEM-008 *Light It Before You Bite It!*  
**Kenley Mitchell** - 7th grade - Sargent Middle  
 School - Monte Vista - Terri Paulson

JR-CHEM-009 *DIY Remedies for Getting a Stain  
 Out*  
**McKayla Red** - 8th grade - Ignacio Middle  
 School – Ignacio - Joe Duffy

JR-CHEM-010 *Which pH Is Most Efficient in a  
 Hydrogen Gas Generator?*  
**Collin Richardson** - 8th grade - Wiggins Middle  
 School – Wiggins - David Richardson

JR-CHEM-011 *Radiation Resilience: Evaluating  
 Photostability in Natural and Synthetic  
 Sunscreens*  
**Violet Sandridge** - 8th grade - Summit Charter  
 Middle School – Boulder - Valerie Keeney

JR-CHEM-012 *The Last Light*  
**Kassidy Schlepp** - 8th grade - St. John the Baptist  
 Catholic School – Longmont - Bradley Schlepp

JR-CHEM-013 *Skittles Chromatography*  
**Jocelyn Schoenfeld** - 6th grade - Genoa-Hugo  
 School – Hugo - Kacy Schoenfeld

JR-CHEM-014 *Radon Detector: Where Does Radon  
 Typically Accumulate in Buildings?*  
**Sierra Winslow** - 8th grade - Eagleview Middle  
 School - Colorado Springs - Jenine Winslow

JR-CHEM-015 *Fruit and Veg Battery*  
**Calvin Yang-Jacobs** - 7th grade - Southern Hills  
 Middle School – Boulder - Peter Laird

JR-CHEM-301 *How Does UV Light Affect the  
 Protection of Different Brands of Sunscreen*  
**Amelie Andujar** - 7th grade - Brush Middle  
 School – Brush - Anneline Andujar-Gonzalez  
**Emely Quijada** - 7th grade - Brush Middle  
 School – Brush - Anneline Andujar-Gonzalez  
**Bianeta Ugwo** - 7th grade - Brush Middle School  
 – Brush - Anneline Andujar-Gonzalez

# 2025 Colorado Science & Engineering Fair

## Junior Division Finalists

### Earth & Environmental Sciences

JR-EAEV-001 *The Effect of Water Treatment on Potable Water*  
**Lily Beeby** - 8th grade - Skinner Middle School – Denver - Becca Glosser

JR-EAEV-002 *Soil and Water Retention Dynamics*  
**Taha Danisman** - 7th grade - Crescent View Academy – Aurora - Serkan Danisman

JR-EAEV-003 *Can Those Tiny Gels Save Agriculture's Water Crisis?*  
**Luciana Dougherty** - 6th grade - Sacred Heart of Jesus Catholic School – Boulder - Laura McGinn

JR-EAEV-004 *Does the Amount of Soil Compaction Influence Water Drainage?*  
**Logan Drullinger** - 8th grade - Liberty School – Joes - Linda Fogale

JR-EAEV-005 *Preventing the Tumble*  
**Morgan Drullinger** - 8th grade - Liberty School – Joes - Linda Fogale

JR-EAEV-006 *Salt or Sink*  
**Neave Henschel** - 7th grade - Hi-Plains School – Vona - Dakota Malone

JR-EAEV-007 *Going Nuts Over Biochar: Pistachios vs. PFAS*  
**Cameron Kempisty** - 8th grade - Eagleview Middle School - Colorado Springs - David Kempisty

JR-EAEV-008 *Photosynthesis Through Thick and Thin: Development of a Light Collecting Device to Prevent Winterkill in Ice Covered Lakes*  
**Kayla Melby** - 6th grade - Yuma Middle School – Yuma - Amy Melby

JR-EAEV-009 *Ecosystems Showdown: Turf vs Grass*  
**Shelby Neal** - 7th grade - Wiggins Middle School – Wiggins - Peggie Neal

JR-EAEV-010 *Monarch Butterfly Pitstop*  
**Kendyl Osborn** - 7th grade - La Junta Junior High School - La Junta - James Osborn

JR-EAEV-011 *Water Filtration*  
**Cy Poss** - 6th grade - Genoa-Hugo School – Hugo - Rhianna Poss

JR-EAEV-012 *Wood Chips vs. Water*  
**Jace Poss** - 6th grade - Genoa-Hugo School - Hugo - Emily Poss

JR-EAEV-013 *Breaking Down Light: Investigating the Effects That Different Wavelengths of Light Have on Plant Growth and Mitosis*  
**Gerardo Rodriguez Ramirez** - 7th grade - Boston K-8 School – Aurora - Devon Conradson

JR-EAEV-014 *From Ground to Growth*  
**Allyson Solze** - 8th grade - Genoa-Hugo School – Hugo - Ellen Emmerling

JR-EAEV-015 *The Influence of Legume Residue on Soil Nitrogen and Corn Growth*  
**Harley Vaughn** - 8th grade - Liberty School – Joes - Linda Fogale

JR-EAEV-016 *Earthquake Asperities Relation to Recurrence*  
**Ben Zhao** - 8th grade - Summit Charter Middle School – Boulder - Valerie Keeney

JR-EAEV-301 *Do You Want To Build a Water Filter?*  
**Ainsley Lehman** - 8th grade - Firestone Charter Academy – Firestone - Andrew Lehman  
**Braelyn Matson** - 8th grade - Firestone Charter Academy – Firestone - Andrew Lehman  
**Jocelyn Demster** - 8th grade - Firestone Charter Academy – Firestone - Andrew Lehman

JR-EAEV-302 *Helpful Organisms: Using Microorganisms in Eutrophic Bodies of Water*  
**Aylin Melgar Bobadilla** - 8th grade - Wray Jr/Sr High School – Wray - Eric Oestman  
**Nayla Gutierrez** - 8th grade - Wray Jr/Sr High School – Wray - Eric Oestman

JR-EAEV-303 *Oceanic Waste Removal*  
**Aidan Tipton** - 8th grade - Bayfield Middle School – Bayfield - Kris McSweeney  
**Silas Morrison** - 8th grade - Bayfield Middle School – Bayfield - Kris McSweeney

# 2025 Colorado Science & Engineering Fair

## Junior Division Finalists

### Energy

JR-ERGY-001 *Battery vs. Solar vs. Solar/Battery Charge Controller*

**Colt Sekich** - 8th grade - Cardinal Community Academy – Keenesburg - Sarah Johnson

JR-ERGY-002 *Should Solar Panels Track the Sun?*

**Bianca Buczkowski** - 8th grade - Monument Academy – Monument - Karl Brown

JR-ERGY-003 *Wind Turbine Efficiency: Which Blade Design Works the Best?*

**Benjamin Knight** - 7th grade - Corwin International Magnet School – Pueblo - Maribel Sena

JR-ERGY-004 *A Better Solar Panel: Can Coating Solar Panels Improve Their Efficiency?*

**Ingram Olson** - 6th grade - Telluride Intermediate School – Telluride - Gin Randolph

JR-ERGY-301 *Insulation Investigation*

**Connor Stone** - 7th grade - Brush Middle School – Brush - Erik Stone

**Evelyn Lapp** - 8th grade - Brush Middle School – Brush - Erik Stone

### Engineering

JR-ENGR-001 *Under Pressure*

**Cooper Bolyard** - 8th grade - Wiggins Middle School – Wiggins - Ralph Bolyard

JR-ENGR-002 *Making a Robotic Hand*

**John Finnessy** - 8th grade - Challenge School – Aurora - Michael Finnessy

JR-ENGR-003 *How Do Flat Tires Effect Drivability?*

**Winston Luke Fulson** - 6th grade - Eagleview Middle School - Colorado Springs - Jenine Winslow

JR-ENGR-004 *Special Needs Pig Feeder*

**Elliot Louthan** - 6th grade - Idalia School – Idalia - Andrea Louthan

JR-ENGR-005 *Building a Safe Robotic Arm for Table-Top Interactions*

**Omar Manshad** - 8th grade - Crescent View Academy – Aurora - Moe Manshad

JR-ENGR-006 *Magic Mouse: A Touchless, Thermin-based Mouse to Help People with Hand Limitations*

**Laurel Amber Kent** - 7th grade - Eagleview Middle School - Colorado Springs - David Kent IV

JR-ENGR-007 *A Haptic Guidance System for Visually Impaired Sport Climbers*

**Ella Music** - 8th grade - Summit Charter Middle School – Boulder - Valerie Keeney

JR-ENGR-008 *Alert for Upcoming Road Signs and Traffic Signals in Advance While Driving*

**Eashan Palakollu** - 6th grade - Cherry Creek Academy – Englewood - Siva Palakollu

JR-ENGR-009 *Screw Water*

**Alex Dicker** - 7th grade - Monte Vista Middle School - Monte Vista - Kristi Mathiesen

JR-ENGR-010 *The Pumpkin Carver*

**Evan Gopinath** - 7th grade - Nevin Platt Middle School – Boulder - Rebecca Fellows

JR-ENGR-011 *Tensegrity Table*

**Xander Skul** - 7th grade - D60 Online School – Pueblo - Gina Skul

JR-ENGR-012 *Dealing with Diabetes: The Road to Developing an Artificial Pancreas*

**Zayn Rana** - 7th grade - Crescent View Academy – Aurora - Amal Atwah

JR-ENGR-013 *Under Pressure*

**Maci Widger** - 8th grade - Sargent Middle School - Monte Vista - Terri Paulson

JR-ENGR-301 *Drones: Providing Initial Relief To Disaster Zones*

**Damian Bencomo** - 7th grade - Nettie S. Freed Expeditionary K-8 School – Pueblo - Michael Bolish

**Eugene Lucero** - 7th grade - Nettie S. Freed Expeditionary K-8 School – Pueblo - Michael Bolish

# 2025 Colorado Science & Engineering Fair

## Junior Division Finalists

### Engineering continued

JR-ENGR-302 *Sci-Fi in Reality*  
**Calvin Nabors** - 8th grade - Bayfield Middle School – Bayfield - Kris McSweeney  
**Quinn Dempsie** - 8th grade - Bayfield Middle School – Bayfield - Kris McSweeney

### Environmental Engineering

JR-ENEV-001 *Mineral Mining Monsters: Time Will Tail*  
**Paisley Anderson** - 8th grade - Creede Schools – Creede - Bryan Eubank  
 JR-ENEV-002 *The Poly Cracker 2.0: A Size and Weight Controlled Birdhouse*  
**Solomon Charlton-Jones** - 7th grade - Flagstaff Academy Charter School – Longmont - Lauren Liedtke  
 JR-ENEV-003 *Plant Growing Conditions*  
**Payal Gopinath** - 7th grade - Nevin Platt Middle School – Boulder - Rebecca Fellows

JR-ENEV-004 *Harnessing Waste Powering Future*  
**Jainil Parikh** - 6th grade - Challenger Middle School - Colorado Springs - Shweta Upadhyay  
 JR-ENEV-301 *Waters' Ways*  
**Lyndee Thomson** - 7th grade - West Grand Middle School – Kremmling - Katie DeBell  
**Ryder Pryor** - 7th grade - West Grand Middle School – Kremmling - Katie DeBell

### Mathematics & Computer Sciences

JR-MACS-001 *Frequency Chaos: Coding a Wi-Fi Interrupter for Tactical Use*  
**Bode Monahan** - 8th grade - Liberty School – Joes - Linda Fogale  
 JR-MACS-002 *Are They Listening To Us?*  
**Oliver Ciembronowicz** - 7th grade - Vallis Cymbia Academiaie Homeschool – Frederick - Hana Ciembronowicz

JR-MACS-003 *Blazing Bright: Uncovering the Truth Behind Wildfires in Colorado via Machine Learning*  
**Wensen Fang** - 8th grade - Summer Charter Middle School – Boulder - Peter Teasdale  
 JR-MACS-004 *Is AI Racist or Sexist?*  
**Madeleine Hahn** - 6th grade - Flagstaff Academy Charter School – Longmont - Lauren Liedtke

### Micro & Molecular Biology

JR-MCRO-001 *Bacteria Buster*  
**Grace Cullen** - 8th grade - Yuma Middle School – Yuma - Amy Melby  
 JR-MCRO-002 *Battling Biofilms: Understanding Bacterial Resistance*  
**Arriya Haney** - 7th grade - Challenge School – Denver - John Wiley  
 JR-MCRO-003 *Fungus Is Among Us*  
**Evan Jardine** - 7th grade - Miller Middle School

– Durango - Parker Jardine  
 JR-MCRO-004 *Milk Mysteries: Understanding the Differences Between A1 and A2 Proteins*  
**Clara Miller** - 7th grade - Sanford Junior High School – Sanford - Jenni Miller



# 2025 Colorado Science & Engineering Fair

## Junior Division Finalists

### Micro & Molecular Biology

- JR-MCRO-005 *Modified Atmosphere Packaging Strategies for Prolonged Organic Strawberry Health*  
**Julia Muro** - 8th grade - North Middle School - Colorado Springs - Sarah Muro
- JR-MCRO-006 *Bacterial Pursuit*  
**Emily Ridl** - 8th grade - St. John the Baptist Catholic School – Longmont - Amy Ridl
- JR-MCRO-007 *Bacteria*  
**Nataly Rojas** - 6th grade - Risley International – Academy – Pueblo - Yvonne Dowd
- JR-MCRO-008 *Antibiotic Resistance in Escherichia coli*  
**Anmoldeep Singh Gill** - 7th grade - Lamar Middle School – Lamar – Ashley Roseberry
- JR-MCRO-009 *Mold Patrol: How Storage Conditions Affect Mold Growth and Animal Feed*  
**Cash Stone** - 8th grade - Genoa-Hugo School – Hugo McKenzi Stone

- JR-MCRO-010 *What's in That Water?*  
**Paisley Wiersma** - 8th grade - Genoa-Hugo School – Hugo - Casey Wiersma
- JR-MCRO-301 *Basketball vs. Bacteria*  
**Olivia Hornung** - 8th grade - Stratton Schools – Stratton - Dannette McConnell  
**Kandyce Ebright** - 8th grade - Stratton Schools – Stratton - Dannette McConnell  
**Kylee Miltenberger** - 8th grade - Stratton Schools – Stratton - Dannette McConnell
- JR-MCRO-302 *The Effect of Pet Toothpaste on the Canine Oral Microbiome*  
**Eli Harrison** - 7th grade - Home School – Erie - Danielle Harrison  
**Jagadish White** - 7th grade - Home School – Westminster - Danielle Harrison

### Physics

- JR-PHYS-001 *How Does Viscosity of Different Liquids Affect the Speed of a Moving Object?*  
**Emily Abdulsalam** - 8th grade - Crescent View Academy – Aurora - Bilal Alabsi
- JR-PHYS-003 *Light It Up and Launch It*  
**Vivian Bozek** - 7th grade - St. Joseph Catholic School - Fort Collins - Marianne Aiken
- JR-PHYS-004 *Beware of the Pocket Rocket*  
**Michael Caraher** - 8th grade - St. John the Baptist Catholic School – Longmont - Patrick Caraher
- JR-PHYS-005 *Don't Interfere with Snow Gear*  
**Elly Entz** - 7th grade - Sargent Middle School - Monte Vista - Terri Paulson
- JR-PHYS-006 *Is Light Made Up of Waves?*  
**Fallyn Gregersen** - 8th grade - Wiggins Middle School – Wiggins - Brenda Gregersen
- JR-PHYS-007 *Marble Roller Coaster*  
**Yezan Kassir** - 8th grade - Crescent View Academy – Aurora - Nessrin Kayali

- JR-PHYS-008 *Taking Flight: Why Are Winglets Important?*  
**Alexander Knight** - 7th grade - Corwin International Magnet School – Pueblo - Maribel Sena
- JR-PHYS-009 *Thermal Effects on Human Hair Elasticity*  
**Maya Lewis** - 8th grade - Summit Charter Middle School – Boulder - Peter Teasdale
- JR-PHYS-010 *Can I Get a Lift?*  
**Lane Mattive** - 8th grade - Sargent Middle School - Monte Vista - Terri Paulson
- JR-PHYS-011 *The Heat Is On: Testing Heat Resistant Materials*  
**Ryker Monahan** - 6th grade - Liberty School – Joes - Linda Fogale
- JR-PHYS-012 *Radiation Safety First: The Life Saving Power of Radiation Shielding*  
**Azucena Perez** - 7th grade - Lamar Middle School – Lamar - Ashley Roseberry

# 2025 Colorado Science & Engineering Fair

## Junior Division Finalists

### Physics & Astronomy continued

JR-PHYS-301 *Batter Up*

**Braylon Einspahr** - 8th grade - Stratton Schools  
– Stratton - Dannette McConnell

**Emmett Bohnen** - 8th grade - Stratton Schools –  
Stratton - Dannette McConnell

**Ryan May** - 8th grade - Stratton Schools –  
Stratton - Dannette McConnell

### Plant Sciences

JR-PLNT-001 *Salinity Solution: A Study of How  
the Salinity in Water Affects Plant Growth*

**Elaina Consaul** - 8th grade - Sargent Middle  
School - Monte Vista - Terri Paulson

JR-PLNT-002 *New Zealand Mud Snails and How  
Do We Get Rid of Them?*

**Thomas D'Attilo** - 7th grade - Nevin Platt Middle  
School – Boulder - John Mattson

JR-PLNT-003 *Rootin' Rivals*

**Gabriel Ferguson** - 7th grade - Craver Middle  
School - Colorado City - Bethany Bak

JR-PLNT-004 *The Effects of Light Wavelength  
Treatments Towards the Germination Response  
and Seedling Growth Rate of Zea mays*

**Ansley DePue** - 8th grade - Wray Jr/Sr High  
School – Wray - Eric Oestman

JR-PLNT-005 *Which Pot Is the Jackpot?*

**Hadley Huwa** - 8th grade - Cardinal Community  
Academy – Keenesburg - Sarah Johnson

JR-PLNT-006 *Aquaponics vs. Aeroponics*

**Grayson Kassib** - 8th grade - West Grand Middle  
School – Kremmling - Katie DeBell

JR-PLNT-007 *Need Some Fertilizer?*

**Chase Ketels** - 6th grade - Alta Vista Charter  
School – Lamar - Marah Brase

JR-PLNT-008 *How Carbon Dioxide and Global  
Warming Affects Plants*

**Michael Ludden** - 7th grade - Challenge School –  
Denver - Michael Ludden

JR-PLNT-009 *Electroculture Gardening and How  
It Affects Plants*

**Caprise Priestley** - 6th grade - Mancos Middle

School – Mancos - Adam Priestley

JR-PLNT-010 *Light Wars: Do Plants Grow Better  
with Natural Light or Artificial Light?*

**Zuneirah Shahin** - 6th grade - Crescent View  
Academy – Aurora - Kamran Shahid

JR-PLNT-012 *Do Endophytes Affect the Growth of  
*Lolium perenne*?*

**Lola Sondrol** - 8th grade - Monte Vista Online  
Academy - Monte Vista - Dirk Oden

JR-PLNT-013 *Who Shrank the Potatoes?!*

**Yasawini Vinjamuri** - 7th grade - Heritage  
Heights Academy – Centennial - Vyjayanthi  
Tupuri

JR-PLNT-301 *Feel the Rainbow*

**Ebony Banks** - 8th grade - Genoa-Hugo School –  
Hugo - Sandra Forristall

**Gabriella Forristall** - 8th grade - Genoa-Hugo  
School – Hugo - Sandra Forristall

JR-PLNT-302 *Rotor Race*

**Kyle Stahlecker** - 6th grade - Stratton Schools –  
Stratton - Megan Jostes

**Bentley Ludington** - 6th grade - Stratton Schools  
– Stratton - Megan Jostes

**Paul Hornung** - 6th grade - Stratton Schools –  
Stratton - Megan Jostes

# 2025 Colorado Science and Engineering Fair

## School & Teacher Participants

**Alta Vista Charter School**  
Marah Brase

**Bayfield Middle School**  
Kris McSweeney

**Boulder Country Day School**  
Karen Morton

**Broomfield High School**  
McKinley Coppock

**Brush High School**  
Brandie Bellefeuille  
Erik Stone

**Brush Middle School**  
Cynthia Albo  
Anneline Andujar-Gonzalez

**Cardinal Community  
Academy**  
Sarah Johnson

**Centauri Middle School**  
Andrew Shelton\*

**Centaurus High School**  
Nicholas Cady  
Eric Mattys

**Center High School**  
Stephanie Archuleta

**Challenge School**  
John Wiley

**Challenger Middle School**  
Selina Webb

**Cherry Creek High School**  
Ethan Dusto

**Corwin International  
Magnet School**  
Maribel Sena

**Craver Middle School**  
Bethany Bak

**Creede Schools**  
Bryan Eubank

**Crescent View Academy**  
Bilal Alabsi  
Amal Atwah

**D60 Online Middle School**  
Charles Carmichael

**Dolores High School**  
Dave Hopcia

**Eagleview Middle School**  
Elizabeth Busler  
Jenine Winslow

**Evergreen High School**  
Stephanie Seevers

**Fairview High School**  
Paul Strode

**Firestone Charter Academy**  
Jason Carnahan

**Flagstaff Academy Charter  
School**  
Lauren Liedtke

**Genoa-Hugo School**  
Ellen Emmerling  
William Mallory

**Golden High School**  
Jesse Swift

**Good Shepherd Catholic  
School**  
Annette Humphrey\*

**Green Mountain High  
School**  
Jen Flores

**Heritage Heights Academy**  
Kris Hinman

**Hi-Plains School**  
Dakota Malone

**Idalia School**  
Kelli Kite

**Ignacio High School**  
Crystal Redman

**Ignacio Middle School**  
Joseph Duffy

**Lakewood High School**  
Casey Walter

**Lamar Middle School**  
Ashley Roseberry

**Liberty School**  
Linda Fogale\*

**Limon Jr/Sr High School**  
Becky Thompson

**Lotus School for Excellence**  
Mehmet Ates  
Alexandre Scott

**Mancos Middle School**  
Brady Archer\*\*

**Mancos School District**  
Sensa Wolcott

**Miller Middle School**  
Leigh Gillette

**Monarch High School**  
Eric Gordon

**Monte Vista High School**  
Loree' Harvey\*

**Monte Vista Middle School**  
Kristi-Lee Mathiesen

**Monte Vista Online  
Academy**  
Dirk Oden

**Monument Academy**  
Karl Brown

**Mountain Vista High School**  
Heather Riggs

**Nederland High School**  
Kristy Campbell

# 2025 Colorado Science and Engineering Fair

## School & Teacher Participants

**Nettie S. Freed**  
**Expeditionary K-8 School**  
Michael Bolish

**Nevin Platt Middle School**  
Rebecca Fellows  
John Mattson

**Palmer High School**  
Nathaniel Lohmann

**Palmer Ridge High School**  
Stephanie Markle

**Peak to Peak Charter School**  
Robert Hettmansperger  
Kurt Schaefer  
Bayley Zubler

**Pine Creek High School**  
Sanjukta Lahiri

**Plainview School**  
Brenda Fickenscher

**Risley International  
Academy of Innovation**  
Yvonne Dowd

**Rock Canyon High School**  
Susanne Petri  
Kerry Reilly

**Rocky Ford Jr/Sr High  
School**  
Jason Bacolod

**Sacred Heart of Jesus  
Catholic School**  
Laura McGinn

**Sargent High School**  
Rafe Paulson

**Sargent Junior High School**  
Terri Paulson\*

**Sierra Grande High School**  
Hansel Garcia

**Skinner Middle School**  
Becca Glosser

**SkyView Academy**  
Erik Lutz

**South High School - Pueblo**  
Alysia Koufos

**Southern Hills Middle  
School**  
Janeen Cappelletti

**St. John the Baptist Catholic  
School**  
Amy Sears

**St. Joseph Catholic School**  
Marianne Aiken

**STEM School Highlands  
Ranch**  
Tyler Chacon  
Stephanie Hart

**Stratton School**  
Megan Jostes  
Dannette McConnell

**Summit Charter Middle  
School**

Valerie Keeney  
Peter Teasdale

**Swink School**  
Hannah Mills

**Telluride Intermediate  
School**  
Danita Strand

**The Academy of Charter  
Schools**  
Glenn Gould

**Vilas School**  
Pam Nicodemus

**West Grand High School**  
Emmylou Harmon\*  
Breanna Moonen

**West Grand Middle School**  
Katie DeBell

**Wiggins Middle School**  
Peggie Neal

**Wray High School**  
Danae Knust

**Wray Junior High School**  
Eric Oestman

**Yuma High School**  
Amy Melby

\*Previous CSEF Teacher of the Year  
Award Winners

## CSEF Teacher Hall of Fame:



# 2025 Colorado Science & Engineering Fair

## Advisory Council

The CSEF Advisory Council includes all Regional Fair Directors, the CSSF, Inc. Board of Directors and many volunteers.

### Colorado State Science Fair, Inc. Executive Committee

President	Mr. James Sipes
Vice President	Mr. Peter Laird
Treasurer	Mr. Dan Kowal
Secretary	Dr. Kristen Rasmussen
Past President	Mr. Josh Redmore
Executive Director	Ms. Courtney Gooding

### Board of Directors Members

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Josh Redmore

#### Denver Health Dental

Dolly Morrow  
Dr. Robert Morrow

#### Katie Kowal

Peter Teasdale

#### Galvanic Engineering

Ryan Patterson  
Kristen Rasmussen

#### IEEE Denver Section

James Sipes  
Hassaan Idrees

#### Lockheed Martin

Dr. Adam Pender

#### Sales Force

Peter Laird  
Claire Goodwin

#### SLV Regional Science Fair

Dr. David Holm  
Susan Storm

#### The Sara Volz Family

Sara Volz

#### Society of Petroleum Engineers

Barbara Ganong  
Eric Lyche

#### Dr. Larry & Carol Sveum

Dr. Larry Sveum  
Lucy Adams

#### University of Colorado, Denver

Erin Golden  
Kayla Ahr

#### US Department of Commerce

Dan Kowal

#### Associate/Alternate Members

Jody Oaks – SRC Chair  
Erin Comstock – Grand Awards  
Coordinator  
Judy Prester – Dr. Larry Sveum

### Past CSEF Directors

Charles Bragaw*	1956-1967	Lloyd Walker	1986-1988
Calvin Fisher*	1968-1974	Connie Vader-Lindholm	1989-1990
Sam Shushan*	1975-1977	Lynn Butler	1991-1992
Gordon Moore	1978-1979	Kate Taylor	1993-1994
Russell B. Stoner*	1979-1981	Christal McDougall	1995-1996
Virgil A. Sandborn	1982-1983	Kate Taylor	1997-1998
James R. Sites	1984-1985	Lucy Adams	1999

Courtney Gooding 2000-present

\*Director Emeritus for outstanding contribution to the CSEF and more than two years of service as CSEF Director.

### 2025 Scientific Review Committee Members

Carol Bach	Nancy Hampson	Loree' Harvey
Steve Hiebert	Steve Iona	Jody Oaks
Kristen Rasmussen	Rodney Simpson	Tracy Webb
Lynne Williams		

### Participating Regional Science Fairs

#### Arkansas Valley Regional Science Fair

Brian Beyerl  
Warren McClure

#### Boulder Valley Regional Science Fair

Cameo DeDominices

#### Denver Metro Regional Science Fair

Kayla Ahr

#### East Central Colorado Regional Science Fair

William Mallory  
Ellen Emmerling

#### Longs Peak Regional Science Fair

Victoria Duncan

#### Morgan/Washington Bi-County Regional Science Fair

Darline Miner

#### Northeastern Colorado Regional Science Fair

Sonya Shaw

#### Pikes Peak Regional Science Fair

Nancy Hampson  
Carol Bach

#### San Juan Basin Regional Science Fair

Lucy Perry

#### San Luis Valley Regional Science Fair

Loree' Harvey

#### Southeast Colorado Regional Science Fair

Terri Lira

#### Southern Colorado Regional Science Fair

Mary Jose

#### Western Colorado Regional Science Fair

Kevin Hoskin

# 2025 Colorado Science & Engineering Fair

## Grand Awards Judges

<b>**Salah Abdel-Ghany</b> Ph.D. Colorado State University	<b>Donald Brandborg</b> B.A.	<b>Zhaoda Du</b> M.S. Colorado School of Mines
<b>Tori Adams</b> B.S. Phillips 66	<b>Amanda Broz</b> Ph.D. Colorado State University	<b>Chavez Dukes</b> B.S. Advanced Energy
<b>**Nicole Addison</b> M.A.	<b>*Rebecca Buchholz</b> Ph.D. UCAR	<b>Francesca Eckstrom</b> M.S. Colorado State University (student)
<b>Jeremy Adler</b> Ph.D. EcoLab	<b>**Svetlana Burova</b> Ph.D. Corden Pharma	<b>Justin Ellis</b> B.S. Colorado State University (student)
<b>Adam Ahern</b> Ph.D. University of Colorado, Boulder	<b>Cecile Carlson</b> Ph.D. University of Colorado, Boulder	<b>Bob Elsheimer</b> M.S.E.E. <b>Alexander Fenton</b> M.S. Colorado State University (student)
<b>Scott Allen</b> B.S. University of Colorado, Boulder (retired)	<b>Shaun Case</b> M.P.H. Colorado State University	<b>Erin Finehout</b> Ph.D. Hamilton Project Consulting
<b>Marie Jane Andales</b> M.S. Colorado State University	<b>Ava Chard</b> B.S. Colorado State University (student)	<b>**Mike Fleischmann</b> B.S. Keysight Technologies, Inc.
<b>Erik Arthun</b> Ph.D. Colorado State University	<b>Baohua Chen</b> Ph.D. Colorado State University	<b>*Karl Ford</b> Ph.D. Wild Connections
<b>Gene Arts</b> B.S. Medtronic (retired)	<b>Mahendran Chinnaiah</b> M.S. CVS Health	<b>*Jason Fraser</b> M.S.E.E. Lockheed Martin
<b>Phyllis Austin</b> M.A., R.N.	<b>Margo Clyne</b> Ph.D. Colorado State University	<b>**Maele Gace</b> M.S. Colorado State University (student)
<b>Adrian Aycock</b> B.S. US Department of Agriculture	<b>Jordan Conley</b> M.S. Colorado State University	<b>**Erica Garrett</b> B.S.Eng. SalesForce
<b>Venkatesh Santharam</b> M.S. Qualcom Technologies	<b>Martin David</b> D.V.M. IDEXX Laboratories	<b>^Stefan Gessler</b> B.S. Kforce/HP, Inc.
<b>*John Bahr</b> B.S. CableLabs	<b>*Robert Davidson</b> Ph.D. Colorado State University (retired)	<b>Darby Gilfillan</b> Ph.D. Erise, IP, PA
<b>Sebastian Balser</b> Ph.D. Colorado State University	<b>**Casey Davis</b> B.A. University of Colorado, Boulder (student)	<b>David Goldstein</b> B.S. US Department of Commerce
<b>John Barnes</b> Ph.D. BJE Environmental Optics	<b>Kristen Davis</b> M.S. US Department of Commerce	<b>*Claire Goodwin</b> M.S. Mark Young Construction
<b>**Ashley Bernal</b> M.S. Seagate Technology	<b>David Debrecht</b> B.S. CableLabs	<b>Mitchell Gregg</b> M.S. Colorado State University
<b>Josh Biller</b> Ph.D. TDA Research, Inc.	<b>**Diksha Diundi</b> M.S. Syntex, Inc.	<b>Padmarani Gunia Jagadeesh</b> B.S. Corden Pharma
<b>Vincent Bocchino</b> B.S. Denver Public Schools	<b>Sarah Dominey</b> M.S. Broadcom, Inc.	
<b>Emily Boyd</b> B.S. Corden Pharma	<b>**Catalina Dorin</b> Ph.D. Broadcom, Inc.	
<b>Joseph Boyer</b> B.S. US Department of Commerce		



# 2025 Colorado Science & Engineering Fair

## Grand Awards Judges

**Lauren Habenicht** D.V.M.  
University of Colorado,  
Anschutz Medical Campus

**Kyle Haefner** Ph.D.  
CableLabs

**\*Jim Hatfield** B.A.

**Graham Haug** Ph.D.  
Colorado State University

**\*Steve Hiebert** B.S.

**\*Jessica Hill** Ph.D.  
Colorado State University

**\*\*Erin Hodgess** Ph.D.  
University of Northern  
Colorado

**Carolyn Hove** B.S.  
Colorado State University

**\*\*Michael Hudson** Ph.D.  
Corden Pharma

**Sergio Ibarra-Espinosa** Ph.D.  
US Department of Commerce

**Hassaan Idrees** M.S.  
Jacobs

**\*\*Wade Ingle** M.Ed.  
Colorado State University

**Yoanna Ivanova** M.S.  
University of Colorado, Boulder

**Brooke James** D.V.M.  
Longmont Humane Society

**Kaixuan Ji** M.S.  
University of Colorado, Boulder  
(student)

**\*\*Yinhua Jin** Ph.D.

**Raymond Johnsen** B.S.  
Corden Pharma

**Ashley Jones** B.S.  
Colorado Department of Health  
and Environment

**\*\*Tessema Kassaw** Ph.D.  
Colorado State University

**David Kempisty** Ph.D.  
ECT2

**\*\*Alex Kislukhin** Ph.D.

**Bryce Knutson** B.A.  
University of Colorado, Boulder

**David Krenek** M.S.

**\*William Kucharski** B.S.  
Oracle Corporation

**Matthew Kwan** M.S.  
University of Colorado, Boulder

**Rochelle LaForest** B.S.  
Colorado State University  
(student)

**\*Peter Laird** B.S.  
Salesforce

**Abdunnaser Lamum** B.S.; M.B.A.

**Jung-Jae Lee** Ph.D.  
University of Colorado, Denver

**Cecilia Leoni** B.S.  
Colorado Department of Public  
Health and Environment

**Youjian Liu** Ph.D.  
University of Colorado, Boulder

**Dale Lockwood** Ph.D.  
Colorado State University

**James Mabe** B.S.

**Keith MacLean** B.S.  
Micron Technology

**Akshay Malik** Ph.D.  
Colorado State University

**\*Chrissy Marek** B.S.  
Medtronic

**Emie Marin** B.S.  
Colorado State University  
(student)

**\*Elan Markov** M.S.  
United Launch Alliance

**Kumaran Selvanayagam** M.S.  
Advanced Energy Industries,  
Inc.

**\*Edwin Maynard** Ph.D.  
Zynex Monitoring Solutions

**Zachary Maynard** B.S.

**Olivia McGowan** B.S.  
Colorado State University  
(student)

**Jim McNamee** Ph.D.

**\*Trevor McQuain** M.A.  
UC Health

**\*William Moninger** Ph.D.

**Juniper Morales** B.S.  
Colorado State University  
(student)

**Padmavathy Premnath** Ph.D.  
Corden Pharma

**Kshitish Nath** M.C.A.  
CVS Health

**^Lex Nickoloff** B.S.  
Webflow, Inc.

**Anderson Noonan** B.S.  
Colorado State University

**\*\*Sam Ogden** B.S.  
Colorado State University  
(student)

**\*\*Jon Oiler** Ph.D.  
Broadcom, Inc.

**^Don Ostwald** D.V.M.

**John Patterson** M.S.  
Neogen

**Marcia Patton-Mallory** Ph.D.  
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**Sara Perrine** B.S.  
Colorado State University

**Rae Pooley** M.S.  
Colorado State University  
(student)

**Abigail Proksch** B.S.  
Colorado State University  
(student)

# 2025 Colorado Science & Engineering Fair

## Grand Awards Judges

<b>Konda-Sundheim M.D.</b> Banner Health	<b>*^Paula Searcy B.S.; M.B.A.</b> 360 Product Management Consulting, LLC	<b>Hui Wan Ph.D.</b> University of Colorado, Colorado Springs
<b>**Vishnu Rajasekharan Ph.D.</b> Hach	<b>Morgan Seiler M.Ed.</b>	<b>*Tracy Webb Ph.D.</b> Colorado State University
<b>*^Kristen Rasmussen Ph.D.</b> Colorado State University	<b>*Pete Sharpe B.A.</b> Emerson Automation Solutions	<b>DeeDee Wright Ph.D.</b> Colorado State University
<b>*Josh Redmore M.Eng.</b> CableLabs	<b>Matthew Siden M.S.</b> Colorado State University (student)	<b>*RedLion York B.S.</b> Broadcom, Inc. (retired)
<b>Richard Rew B.S.</b>	<b>Carolyn Sipes Ph.D.</b>	<b>Jiucui Zhang Ph.D.</b>
<b>**MJ Riches Ph.D.</b> Colorado State University	<b>**Chris Sipes M.A.</b> Sitomni, LLC	<b>**Xiaoli Zhang Ph.D.</b> Colorado School of Mines
<b>Mike Rider M.S.</b>	<b>Jim Sipes M.S.</b>	<b>Qiaojie Zheng M.S.</b> National Renewable Energy Lab
<b>*Tom Roberts M.S.</b> USDI Bureau of Land Management (retired)	<b>Gary Skiles M.S.</b> Broadcom, Inc.	
<b>David Roecker M.S.</b> Broadcom, Inc.	<b>Janice Skiles M.Ed.</b> Broadcom, Inc.	
<b>Matt Rogers Ph.D.</b> Colorado State University	<b>Joe Smith M.S.; M.B.A.</b>	
<b>Rose Rossell B.S.</b> Colorado State University (student)	<b>Alan Stepneski M.S.</b> Mountain States Structural (retired)	
<b>Emily Saldana B.S.</b> Colorado Department of Public Health and Environment	<b>Chelsea Stockwell Ph.D.</b> US Department of Commerce	
<b>Ramya Sambasivan Ph.D.</b> Corden Pharma	<b>*Erica Suchman Ph.D.</b> Colorado State University (retired)	
<b>Maziar Sardashti Ph.D.</b>	<b>Lauren Sullivan B.S.</b> University of Colorado, Boulder (student)	
<b>James Schatzman Ph.D.</b> Augustus Aerospace Co.	<b>Hannah Tetreault Ph.D.</b> US Department of Agriculture	
<b>Grant Schauer Ph.D.</b> Colorado State University	<b>Victoria Treadaway Ph.D.</b> University of Colorado, Boulder	
<b>Adam Schuller Ph.D.</b> Colorado State University	<b>Jared Van Blair B.A.</b> Colorado State University	
<b>Todd Schumann Ph.D.</b> US Department of Commerce	<b>Kira Vasquez-Kapit B.S.</b> Colorado State University (student)	
<b>Madeline Schwarz Ph.D.</b> Colorado State University	<b>**Leena Vilonen Ph.D.</b> Colorado State University	

\*Judging Team Captains  
 \*\*Judging Team Assistant Captains  
 ^CSEF Alumni

# 2025 Colorado Science & Engineering Fair

## Special Awards Program

### **Organizations**

Air & Waste Management Association  
American Industrial Hygiene Association  
American Statistical Association  
American Vacuum Society  
Broadcom Foundation  
Colorado BioScience Institute  
Colorado Environmental Health Association  
Colorado Foundation for Agriculture  
Colorado Medical Society  
Colorado Mineral Society  
Colorado Mycological Society  
Colorado Native Plant Society  
Colorado Section of the American Chemical Society  
Colorado State University  
Colorado Natural Heritage Program  
Department of Agricultural Biology  
Department of Chemistry  
Dept. of Horticulture & Landscape Architecture  
Energy Institute  
Colorado Veterinary Medical Association  
Colorado's Electric Cooperatives  
Colorado-Wyoming Society of American Foresters  
Institute of Electrical & Electronics Engineers  
Little Shop of Physics  
Lockheed Martin  
National Security Agency

Platte River Power Authority  
Rocky Mountain Association of Geologists  
Rocky Mountain Water Environment Association  
Science Toy Magic - CO2  
Society for Mining, Metallurgy & Exploration  
Society of Manufacturing Engineers  
Society of Women Engineers  
State of Colorado Division of Reclamation, Mining, & Safety  
The Biophysical Society  
The Sara Volz Family  
The Warnock Family  
The Wilkins Family  
Thermo Fisher Scientific  
Trout Unlimited  
United States Navy & Marine Corps  
Wojtaszek Family  
Zonta Club of Boulder County

### **Scholarships**

Colorado School of Mines  
Colorado State University, Pueblo  
CO<sub>2</sub>/Greenhouse Gas Reduction

### **Teacher Awards**

Lockheed Martin  
Colorado Science Teachers Association  
Doug Steward Memorial Award



# 2025 Colorado Science & Engineering Fair

## Volunteers

The following list of people deserves our most sincere thanks for volunteering their time to do a variety of jobs during the CSEF. When you see a person wearing a green “Volunteer” name badge, please take a moment to thank them for their efforts. The Colorado Science and Engineering Fair would not be possible without their dedication. An \* indicates these are CSEF Alumni who are volunteering this year.

Kayla Ahr	Kevin Hoskin	Noah Newman
Tricia Ahr	Cathi Jacobs	Floyd Oaks
Avery Appleby	Vicky Jordan	Jody Oaks
Nikkie Brandborg	Mary Jose	Siva Palakollu
Tammy Brenner	Mary Klass	Paige Perez
Caitlin Bridge	Sharon Knight	Bharathi Rao
Greg Busby	Dan Kowal	Cheryl Reeves
Melissa Byrd	Ashley Krueger	Patricia Reynolds
Erin Chanel	Tami Kruse	Mary Richmond
Aaralyn Comstock	Peter Laird	Harry Ruleman
Corbin Comstock	Klement Lavu	Samantha Sands
Erin Comstock	Lauren Liedtke	Dave Swartz
Gavin Comstock	Terri Lira	Christina Selinger
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Cecilia Dauer	LaRae Mattive	Larry Sveum
Ellen DeBacker	Julie McClure	Boo Thomas
Rachel Doser	Warren McClure	Henry Thompson
Victoria Duncan	Amy Melby	Mike Viney
Meg Enright	Paul Meyer	Rajshri Vispute
Brenda Fickenscher	Jenni Miller	Xiang Wang
Karyn Futrell	Darline Miner	Andrew Warnock
Nancy Hampson	David Miner	Jesse Wilson
Shannon Haney	Nik Monte	Jennifer Yund
Emmylou Harmon	Bob Morrow	Biomedical Sciences Honors
Loree' Harvey	Carol Morrow	Students
David Holm	Jamie Neilson	Timnath Elementary School

# Thank You!!

# 2025 Colorado Science & Engineering Fair

## Directions to Awards Ceremony Site

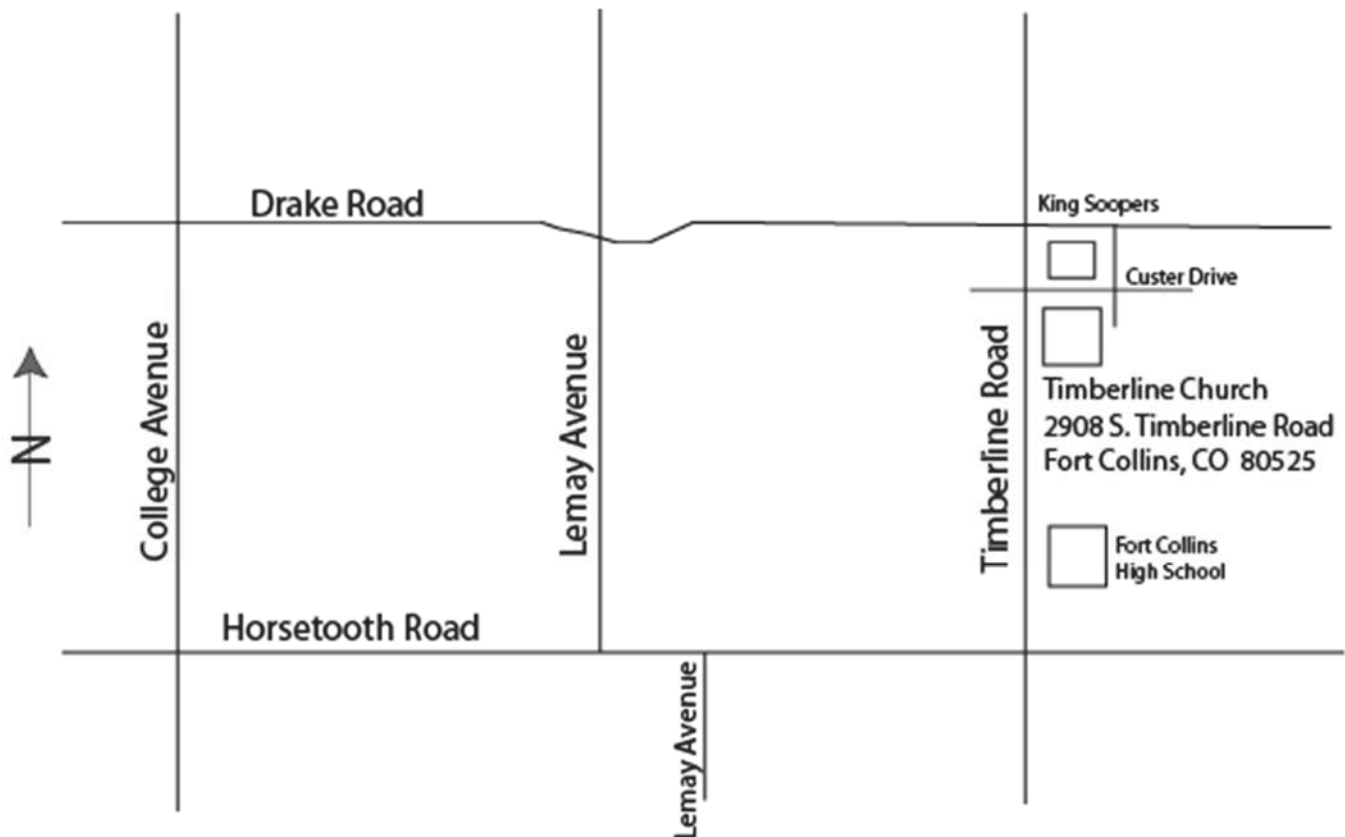
This year's CSEF Award Ceremony will be held at Timberline Church in Fort Collins, CO starting at 6 p.m. on Friday, April 4<sup>th</sup>. The address to use with Google Maps is 2908 South Timberline Road Fort Collins, CO 80525. Please note that large vehicles should use the East side parking lot for dropping off passengers and parking. Attendees can use either side of the building to enter and the ceremony will be held in the South Auditorium.

### Directions from Colorado State University Campus:

Head South on either College Avenue or Shields Street. Turn East (left) onto Drake Road. Take Drake to Timberline Road. Turn South (right) onto Timberline Road. Turn East (left) onto Custer Drive (first light). Take the first right (Illinois Drive) into the church parking lot.

### Directions from I-25:

Take Harmony Road (exit 265) – turn West into town. Turn North (right) onto Timberline Road. Timberline Church will be past Horsetooth Road, but before Drake Road on the right hand side of the road. There are two entrances into the church parking lot prior to reaching Custer Drive.



Lory Student Center - 3rd Floor

