



**GOVERNING BOARD AGENDA ITEM
AMPHITHEATER UNIFIED SCHOOL DISTRICT NO. 10**

DATE OF MEETING: **May 11, 2021**

TITLE: **Recognition of 2021 SARSEF Winners**

BACKGROUND:

Each year the Southern Arizona Research, Science and Engineering Foundation (SARSEF) celebrates young researchers and scientists from grades K-12 at a science fair competition. Winning science fair projects at the school level are selected to compete at the Southern Arizona Research, Science and Engineering Fair (SARSEF). This year, the competitions were held virtually, and more than 2,700 projects from 139 schools were submitted throughout the contest process.

Amphitheater Public Schools had 90 projects from 10 schools across the district advance to the SARSEF competition. A total of 65 projects received special awards or 1st or 2nd place honors. A full list of winners is enclosed.

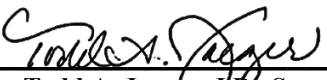
RECOMMENDATION:

This item is presented for the Governing Board's information and recognition.

INITIATED BY:


Michelle Valenzuela, Communications Director

Date: May 3, 2021


Todd A. Jaeger, J.B., Superintendent

Amphi Academy Online K-5

Frozen Ice Balloon Materials

Student: Ella Schulzkump

Awards:

- SARSEF Grand Award, 1st Place
- Most Outstanding Exhibit in Materials Science – \$25 check, certificate and award ribbon

Teacher: Brenda Mendez

Category: Chemical Sciences

Rocket to the Moon

Student: Ella Taliaferro

Awards:

- SARSEF Grand Award, 1st Place
- Excellence in Earth and Space Sciences – Lunar Meteorite

Teacher: Brenda Mendez

Category: Physics, Astronomy, and Mathematics

Smell This-How Do Different Scents Change a Dog's Behavior?

Students: Class of 29

Award: SARSEF Grand Award, 2nd Place

Teacher: Angela Hitt

Category: Animal and Plant Sciences

A Bird's Best Friend

Student: Greyson Vann-Pett

Awards:

- Passion for Science Award: In honor of Rachel Tankersley and Tonya Connelly – \$25 check and certificate
- SARSEF Board of Directors Award – \$50 check and certificate
- Scottie Wright Memorial Excellence in Engineering – Award for Creativity and Persistence in Engineering
- The Ruby Memorial Award – \$25 check and certificate

Teacher: Patricia Lindberg

Category: Engineering, Robotics and Computer Sciences

Amphitheater High School

Preliminary Study to Identify Changes in Inhibitory Neurotransmitter Receptor Expression Level and Distribution in Retinas From Diabetic Mice

Student: Mia Hernandez

Awards:

- SARSEF Grand Award: 3rd Place
- Outstanding Research in Immune Deficiencies – \$100 check and certificate

Teacher: None listed

Category: Health and Biomedical Science

Canyon del Oro High School

Active Sensing for the Big Brown Bat (*Eptesicus fuscus*) When Faced With Unpredictable Situations

Students: Zander Bryan Reed Dickey

Award: SARSEF Grand Award, 1st Place

Teacher: Christopher Chen

Category: Animal Science

The Feasibility of the Extraction of (2E)-3-phenylprop-2-enal from Cinnamomum cassia Bark Using Water and Aqueous Ethanol as Solvents in Distillation

Student: Aaron Trinh

Awards:

- SARSEF Grand Award, 1st Place
- ISEF Finalist and UA Scholarship – Trip to the Regeneron ISEF for student plus \$2,500 UA Scholarship

Teacher: Jill Christman

Category: Chemical and Material Science

Copper Creek Elementary School

Pollinators in Our Neighborhoods

Students: Class of 23

Awards:

- SARSEF Grand Award, 1st Place
- Esther Chapman Memorial Award for Curiosity and Plant Science – \$50 check and certificate

Teacher: Tara Wieber

Category: Animal and Plant Sciences

Coronado K-8 School

Does The Color Of Food Affect People's Opinion and Taste?

Student: Gabriella John

Award: SARSEF Board of Directors Award – \$50 check and certificate

Teacher: Lauren Marlatt

Category: Behavioral and Social Science

Innovation Academy

I Like to Move It, Move It

Students: Class of 23

Award: SARSEF Grand Award, 1st Place

Teachers: Susan Steen and Lindsay Baeder

Category: Health and Wellness

Nacho Regular Oven

Student: Grant Douglas

Awards:

- SARSEF Grand Award, 1st Place
- Jasmine's Super Cool Science Kid Award – \$25.00

Teacher: Paula Sotelo

Category: Chemical Sciences

Learning to Bloom with Zoom

Students: Class of 90

Award: SARSEF Grand Award, 1st Place

Teacher: Danielle Swartz

Category: Behavioral and Social Sciences

The Super Puzzle Effect

Students: Class of 27

Award: SARSEF Grand Award, 1st Place

Teacher: Lori Larussa

Category: Behavioral and Social Sciences

Mylar Balloon Garden

Students: Class of 30

Award: SARSEF Grand Award, 1st Place

Teacher: Pam Barrett

Category: Animal and Plant Sciences

Improbubble

Student: Zane Douglas

Award: SARSEF Grand Award, 1st Place

Teacher: Pam Barrett

Category: Engineering, Robotics and Computer Sciences

Do you want to know the best way to get rid of weeds?

Student: Sophia Lococo

Award: SARSEF Grand Award, 2nd Place

Teacher: Lori LaRussa

Category: Earth and Environmental Sciences

Healthy, Happy Chickens with Water Conservation

Student: Savanna Randall

Awards:

- SARSEF Grand Award, 2nd Place
- Bettering Ourselves and Our Planet – \$25 and certificate

Teacher: Lori Larussa

Category: Energy and Environmental Engineering

Mites and Tites

Student: Hermina Redman

Award: Rising Stalagmite Award – \$50 check, SAG T-Shirt, Certificate of Appreciation, and an invitation to present project at general monthly meeting,

Teacher: Pam Barrett

Category: Earth and Environmental Sciences

Read My Lips

Students: Class of 25

Award: SARSEF Grand Award, 1st Place

Teacher: Rachelle Ferris

Category: Behavioral and Social Sciences

Response Time: "Reflex"ions

Students: Class of 20

Award: SARSEF Grand Award, 2nd Place

Teacher: Ashlyn Lehwald

Category: Health and Wellness

What Keel for My Sailboat?

Student: Gauthier Allouis

Awards:

- SARSEF Grand Award, 1st Place
- Naval Excellence in Science Research Award – \$25 Check, Certificate

Teacher: Mabel Rivera

Category: Physics, Astronomy, and Mathematics

Race Down the Hill!

Student: Jude Anderson

Award: SARSEF Grand Award, 2nd Place

Teacher: Rachelle Ferris

Category: Physics, Astronomy, and Mathematics

The Social Distancer

Student: Leopoldo Delgado

Awards:

- SARSEF Grand Award, 1st Place
- TEP Award of Excellence – \$50 Check and Certificate

Teacher: Ashlyn Lehwald

Category: Engineering, Robotics and Computer Sciences

Water Cycle! How Evaporation & Condensation Work

Student: Aaron Eager

Award: SARSEF Grand Award, 1st Place

Teacher: Mabel Rivera

Category: Earth and Environmental Sciences

Create to Save

Student: Ella Fendrick

Award: Vantage West Credit Union Science and Engineering Award – \$25 Target Gift Card

Teacher: Mabel Rivera

Category: Behavioral and Social Sciences

Mistletoe Mischief

Student: Breckyn Koenig

Awards:

- SARSEF Grand Award, 1st Place
- SARSEF Board of Directors Award – \$50 Check and Certificate

Teacher: Mabel Rivera

Category: Animal and Plant Sciences

The Problem of the Etch – A- Sketch

Student: Zoe Larsen

Awards:

- SARSEF Grand Award, 2nd Place
- SARSEF Software Award – \$100 Check and Certificate
- TEP Award of Excellence – \$50 Check and Certificate

Teacher: Mabel Rivera

Category: Engineering, Robotics and Computer Sciences

Solar Power Storage

Student: Parker Serrato

Award: TEP Top Elementary School Project – \$100 Check and Certificate

Teacher: Ashlyn Lehwald

Category: Energy and Environmental Engineering

Eggselement Substituted Sugar Cookies

Student: Drake Taylor

Awards:

- SARSEF Grand Award, 1st Place
- Food Safety Award – Honorable Mention (Sponsored by the Victor P. Smith Endowed Chair in Food Safety Education – Framed Certificate)

Teacher: Mabel Rivera

Category: Chemical Sciences

Rockin' Remote Learning Using Online Tools

Students: Class of 22

Award: SARSEF Grand Award, 2nd Place

Teacher: Mandi Cordell

Category: Behavioral and Social Sciences

Good Night. Sleep Tight. Don't Let The Anxiety Bite!

Student: Audrey Alameda

Awards:

- SARSEF Grand Award, 2nd Place
- AFSP Inspired Young Researcher – \$25 Check and Certificate

Teacher: Mandi Cordell

Category: Health and Wellness

Wanna Be Starter Somethin'

Student: Ellie Carter-Rogel

Award: SARSEF Grand Award, 1st Place

Teacher: Nicki Tilicki

Category: Chemical Sciences

What Teaches Better, a Visual or Written Lesson?

Student: Felix Croy

Award: SARSEF Grand Award, 1st Place

Teacher: Mandi Cordell

Category: Behavioral and Social Sciences

Help! I'm Moody and Crashing!

Student: Talan Freytag

Awards:

- SARSEF Grand Award: 3rd Place
- Two Boo Boos – \$25 check and certificate

Teacher: Mandi Cordell

Category: Health and Wellness

Reading Rainbow

Student: Kalia Lopez

Award: SARSEF Grand Award, 1st Place

Teacher: Mandi Cordell

Category: Health and Wellness

Old Dog New Tricks ; Helping my Grandpa

Student: Adalee Watson

Awards:

- SARSEF Grand Award, 3rd Place
- Junior League of Tucson Future Health and Wellness Leader Award – \$50 check and certificate

Teacher: Mandi Cordell

Category: Health and Wellness

Building Our Community – Literally

Students: Class of 25

Awards:

- SARSEF Grand Award, 2nd Place
- Science of Kindness Award – Ben's Bells gift bag

Teacher: Niki Tilicki

Category: Health and Wellness

What Are You Drinking?

Students: Class of 21

Award: SARSEF Grand Award, 1st Place

Teacher: Niki Tilicki

Category: Chemical Sciences

Night or Light

Students: Class of 23

Award: SARSEF Grand Award, 2nd Place

Teacher: Sabina Vaswani

Category: Behavioral and Social Sciences

Kids at Play, Turning a Blind Eye

Student: Payton Barrett

Award: SARSEF Grand Award, 1st Place

Teacher: Sabina Vaswani

Category: Behavioral and Social Sciences

Wheely, Wheely Bad

Student: Owen Cordell

Awards:

- SARSEF Grand Award, 1st Place
- Caterpillar Foundation's Building Arizona's Future Award – \$250 for a project that builds a better world

Teacher: Sabina Vaswani

Category: Physics, Astronomy, and Mathematics

Mask Up, Arizona!

Student: Matthew D'Ambrosio

Award: SARSEF Grand Award, 2nd Place

Teacher: Elisabeth Gingrich

Category: Health and Wellness

Can We Save the Tea?

Students: Nancy Casanova, Kelsey Glud

Award: SARSEF Grand Award, 2nd Place

Teacher: Niki Tilicki

Category: Chemical Sciences

The Cost of Blue Light Reduction

Student: Josh Moss

Award: SARSEF Grand Award, 1st Place

Teacher: Sabina Vaswani

Category: Health and Wellness

Brotherly Love

Student: Jacob Oller

Award: SARSEF Grand Award, 2nd Place

Teacher: Elisabeth Gingrich

Category: Physics, Astronomy, and Mathematics

The Calmer

Student: Torrence Salyer

Awards:

- SARSEF Grand Award: 2nd Place
- AFSP Inspired Young Researcher – \$25 Check and Certificate

Teacher: Elisabeth Gingrich

Category: Health and Wellness

Cross Middle School

How Does Ozone Affect Pathogens Like Bacteria and Mold?

Students: Hassan Melhem, Lorenzo Lopez

Award: SARSEF Grand Award, 1st Place

Teacher: Alexandria Vaughn

Category: Health and Wellness

7-AP010

ABCalc – Reinventing How Woodworkers Calculate Board Footage. (or just “ABCalc” for short)

Student: Lucio Castellini

Awards:

- ARSEF Grand Award, 1st Place
- Excellence in Engineering Scholarship – \$500 Scholarship and certificate

Teacher: Alexandria Vaughn

Category: Engineering, Robotics, and Computer Science

Oreos Contain Palm Oil Which Negatively Affects Orangutans

Student: Chiara E Kretzer

Awards:

- SARSEF Grand Award, 1st Place
- Excellence in Palm Oil Education – \$25 check and certificate

Teacher: Alexandria Vaughn

Category: Earth and Environmental Science

Multi-Pack

Students: Elizabeth Loehr, Brooke Lowe

Award: SARSEF Grand Award, 1st Place

Teacher: Alexandria Vaughn

Category: Health and Wellness

Do Donkeys Taste the Same as Humans?

Student: Olive Parisi

- Awards:
- SARSEF Grand Award, 3rd Place
- Pima County Fair's Creativity in Engineering Award – Family pack of 4 admission, 1 parking, and 4, 3 ride cards. (about an \$85.00 Value)

Teacher: Alexandria Vaughn

Category: Animal and Plant Science

Yeast vs. Sugar

Student: Brynn Quelland

Award: SARSEF Grand Award, 2nd Place

Teacher: Alexandria Vaughn

Category: Chemical Science

Ultraviolet Power

Student: Camden Wong

Awards:

- SARSEF Grand Award, 1st Place
- TEP Award of Excellence – \$75 Check and Certificate

Teacher: Alexandria Vaughn

Category: Health and Wellness

Lulu Walker Elementary School

Birdwatching

Student: Nicolas A. Kelley

Awards:

- SARSEF Grand Award, 1st Place
- Robin M. Cattler Innovation Award – \$50 Check and certificate
- The Ruby Memorial Award – \$25 Check and certificate

Teacher: Jennifer Powers

Category: Animal and Plant Sciences

Hydroponics vs. Soil

Student: Aurora Shepherd

Award: SARSEF Grand Award, 2nd Place

Teacher: Ms. Newman

Category: Animal and Plant Sciences

Effects of Yoga on Student Learning

Students: Class of 11

Awards:

- SARSEF Grand Award, 1st Place
- ASQ Sponsored Award – \$50 check and certificate

Teacher: Monique Berry-Kelley

Category: Category: Health and Wellness

Battery Power

Students: Class of 20

Award: SARSEF Grand Award, 1st Place

Teacher: Teacher: Meredith Burgess

Category: Energy and Environmental Engineering

Amazing Worms

Students: Class of 4

Award: Pima County Fair's Creativity in Engineering Award – Family pack of 4 admission, 1 parking, and 4, 3 ride cards. (about an \$85.00 Value)

Teacher: Monique Berry-Kelley

Category: Animal and Plant Sciences

Burgler Box

Student: Camdon Carrow

Awards:

- SARSEF Grand Award: 2nd Place
- TEP Award of Excellence – \$50 Check and Certificate

Teacher: Monique Berry-Kelley

Category: Engineering, Robotics and Computer Sciences

Adho Mukha Vrksasana Therapy

Student: Dominic Ramirez

Award: SARSEF Grand Award, 2nd Place

Teacher: Monique Berry-Kelley

Category: Behavioral and Social Sciences

Wilson K-8 School

Paving the Way to Learning! A Class Project to Build a Better Outdoor Learning Space

Students: Class of 20

Award: SARSEF Grand Award, 1st Place

Teacher: Jocelyn Smerz

Category: Earth and Environmental Sciences

Sourdough Science

Student: Liliana McCally

SARSEF Grand Award, 1st Place

Teacher: Jonelle Richardson

Category: Chemical Sciences

Winifred Harelson Elementary School

The "Are We There Yet?"

Harper Francom

Awards:

- SARSEF Grand Award: 2nd Place
- TEP Award of Excellence – \$50 Check and Certificate

Teacher: Mrs. Klein

Category: Engineering, Robotics and Computer Sciences

Bad Kitty T.P. Guard

Student: Aubree Barrett

Awards:

- SARSEF Grand Award: 3rd Place
- TEP Award of Excellence – \$50 Check and Certificate

Teacher: Ms. Easterling

Category: Engineering, Robotics and Computer Sciences

The Tiny Hang Up

Student: Jadyn Collins

Awards:

- SARSEF Grand Award: 2nd Place
- TEP Award of Excellence – \$50 Check and Certificate

Teacher: Ms. Easterling

Category: Engineering, Robotics and Computer Sciences

Temperature Tantrum

Students: Class of 29

Award: SARSEF Grand Award, 1st Place

Teacher: Lindsay Wong

Category: Health and Wellness

Plant Warfare: Investigating Allelopathy

Students: Class of 27

Awards:

- SARSEF Grand Award, 1st Place
- Classroom Project: Success in Science – \$25 check and certificate

Teacher: Mrs. Yewell

Category: Animal and Plant Sciences

Block the Bucks!

Rilynn Brown, Emmy Sieminiski

Award: Vantage West Credit Union Science and Engineering Award – \$25 Target Gift Card

Teacher: Mrs. Yewell

Category: Engineering, Robotics and Computer Sciences

The 5-Second Rule — Is it Legit?

Student: Daniel Moreno

Award: Food Safety Award – Second Place (Sponsored by the Victor P. Smith Endowed Chair in Food Safety Education – \$75 Check and Framed Certificate

Teacher: Mrs. Yewell

Category: Health and Wellness

Desperately Seeking Sunlight

Student: Vivienne Yewell

Award: SARSEF Grand Award: 2nd Place

Teacher: Mrs. Yewell

Category: Animal and Plant Sciences