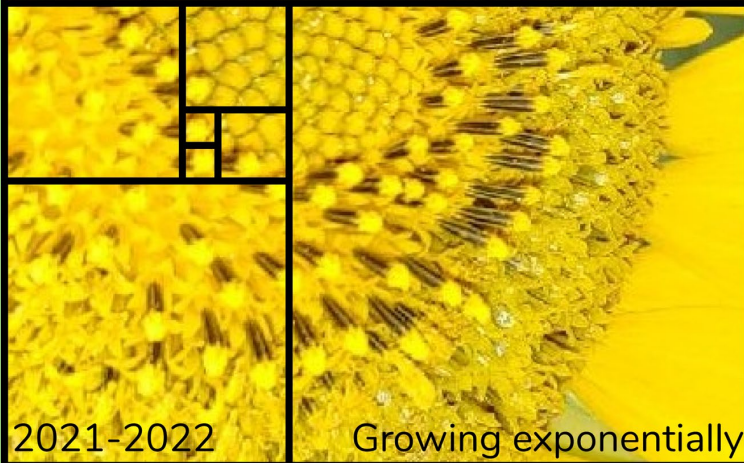


Team 3
Manzano & Eldorado HS

Supercomputing
Challenge



2021-2022

Growing exponentially

WELCOME TO THE 32nd ANNUAL AWARDS CEREMONY



First Place

Team #47 Developing a Control Algorithm and Simulation for Thrust Vector Controlled Rockets

School
Team Members

Los Alamos High
Daniel Kim,
Andres Iturregui

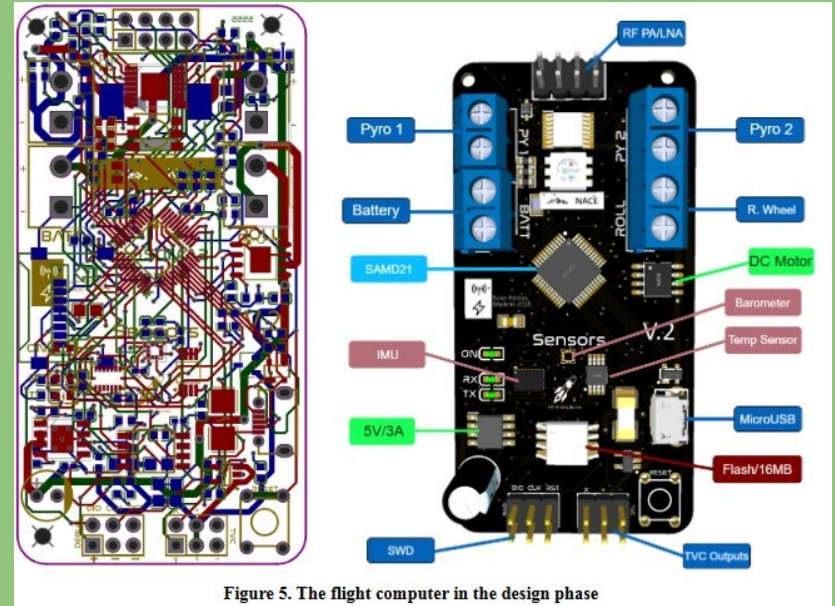
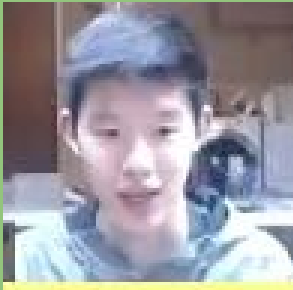


Figure 5. The flight computer in the design phase

WONDERFUL ACHIEVEMENT!



Second Place

Team #15 EL HAVEN (The Hearing, Exploring and Visualizing of Nubes)

School	New Mexico School for the Arts
Team Members	Django Beaudoin, Elisea Jackson, Madelyn Kingston, Lexington Smith
Teacher/Sponsor	Acacia McCombs



Third Place

Team #34 Machine Learning - DNA Methylation & Alzheimer's Disease

School La Cueva High

Members Aditya Koushik, Abitpal Gyawali

Teacher/Sponsor Yolanda Lozano



CONGRATULATIONS!





New School to the Challenge This Year



Pizza Party!



The Finalists

Team #12 Measuring, Analyzing, Predicting and Improving the Quality of Air

School	Capital High
Members	Joshua Tamarra, Zachariah Burch, Britny Marquez, Isel Aragon
Teacher/Sponsor	Barbara Teterycz

Team #15 EL HEAVN (The Hearing, Exploring and Visualizing of Nubes)

School	New Mexico School for the Arts
Members	Madelyn Kingston, Django Beaudoin, Lexington Smith, Elisea Jackson
Teacher/Sponsor	Acacia McCombs



The Finalists

Team #21 A Ray of Hope

School	Los Alamos High
Member	Andrew Morgan
Teacher/Sponsor	Nathaniel Morgan

Team #24 Effects of Combinations of Halogen Additions to Molecules on Absorption/Emission Wavelengths.

School	La Cueva High
Member	Melody Yeh
Teacher/Sponsor	Creighton Edington



The Finalists

Team #27 Designing Proteins with Quantum and Neuromorphic Computing

School	Los Alamos High
Member	Robert Strauss
Sponsor	Vikram Mulligan, Garrett Kenyon

Team #30 Classifying Mushroom Edibility

School	La Cueva High
Member	Yana Outkin
Teacher/Sponsor	Yolanda Lozano



The Finalists

Team #34 Machine Learning - DNA Methylation and Alzheimer's Disease

School **La Cueva High**

Members **Aditya Koushik, Abitpal Gyawali**

Teacher/Sponsor **Yolanda Lozano**

Team #47 Developing a Control Algorithm and Simulation for Thrust-Vector-Controlled Rockets

School **Los Alamos High**

Members **Daniel Kim, Andres Iturregui**



Innovative Data Science Award

Team #30 Classifying Mushroom Edibility

School **La Cueva High School**

Team Member **Yana Outkin**

Teacher/Mentor **Yolanda Lozano**

CNM In[?]enuity, Inc.



Innovative Machine Learning Award

Team #34 Machine Learning - DNA and Methylation & Alzheimer's Disease

School **La Cueva High School**

Members **Aditya Koushik, Abitpal Gyawali**

Teacher/Sponsor **Yolanda Lozano**



Agent-based Model using NetLogo Award

Team #56 Understanding Sweetness

School **St. Thomas Aquinas**

Team Member **Julianna Matthews**

Teacher/Sponsor **Eric Vigil**



Award for Agent-based Modeling Using StarLogo-Nova

School **Truman Middle School**

Team #28 Relationship Between Deforestation and Climate Change

Team Members **Sebastina Puentes, Yahir Prieto,
Camila Hernandez Delgado**

Team #29 Amazon Deforestation

Team Members **Briana Anaya, Sade Garcia, Yaritzel Castro**

Teacher/Sponsor **Natali Barreto Baca**





Technical Writing Award



Team #15 El HEAVN (The Hearing, Exploring and Visualizing of Nubes)

School

New Mexico School for the Arts

Team Members

**Django Beaudoin, Elisea Jackson,
Madelyn Kingston, Lexington Smith**

Teacher/Sponsor

Acacia McCombs



Head Judges

Michael Trahan



Richard Barrett



Kaley Woelfel





Recognition of Expo Judges

Ed Angel

Nicholas Kutac

Dave Price

Richard Barrett

Peter Lamborn

Dorian Sims

Jon Brown

Max Lazo

David Torres

Ranjana Damle

Joan Lucas

Rachel Washington

Mohit Dubey

Sam McGuinn

James Wernicke

Daniel Fuka

Monique Morin

Kaley Woelfel

Susan Gibbs

James Overfelt

Phil Wolfram

Clint Hubbard

Veena Parboteeah

Geoff Valdez

Cole Kendrick



Finalists Judges

Mike Davis

David Janecky

Sharon Deland

Amy Knowles

Joan Goldsworthy Appel

Tom Robey

Stephen Guerin

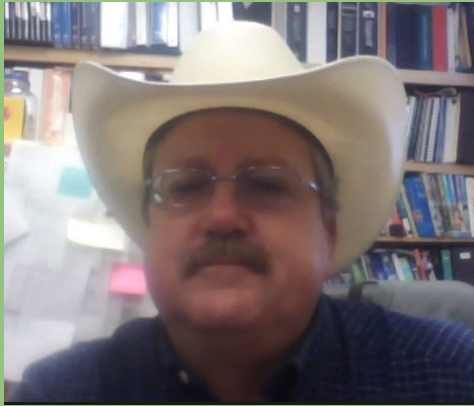
Michael Trahan



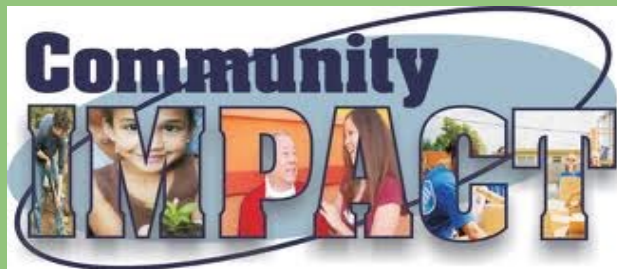


Shout Out to Alan Daugherty, Mary Sagartz, Harry Henderson

Code Break Team



Community Impact Award



Team #56 Understanding Sweetness

School

St. Thomas Aquinas

Team Member

Julianna Matthews

Sponsor

Eric Vigil



High Performance Computing Award

Team #27 Designing Proteins with Quantum Neuromorphic Computing

School **Los Alamos High**

Team Member **Robert Strauss**



Middle School Award



School

Truman Middle School

Team #28 Relationship Between Deforestation and Climate Change

Team Members

**Sebastina Puentes, Yahir Prieto,
Camila Hernandez Delgado**

Team #29 Amazon Deforestation

Team Members

Briana Anaya, Sade Garcia, Yaritzel Castro

Teacher/Sponsor

Natali Barreto Baca



STEAM Award

Team #53 Art with Tech

School

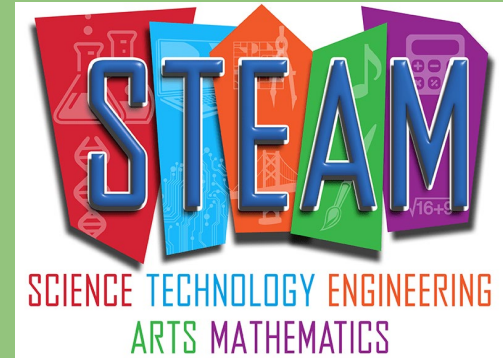
La Cueva High

Team Member

Victoria Outkin

Sponsor

Yolanda Lozano





Teacher Appreciation Award

Capital High Teacher: **Barbara Teterycz**





Teacher Appreciation Award

Jackson Mid Teacher: **Sharee Lunsford**





Teacher Appreciation Award

Harrison Mid and Justice Code Teachers:

Caia Brown, Becky Campbell and Ryan Palmer





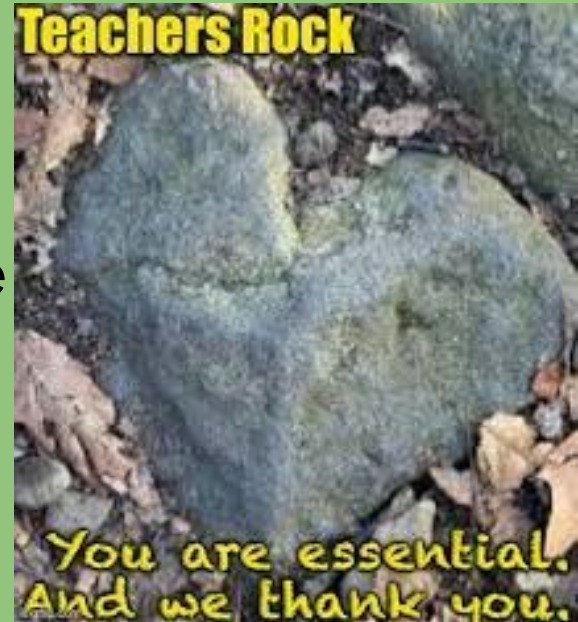
Teacher Appreciation Award

Truman Middle School Recognizes **Creighton Edington**



Teacher Sponsors

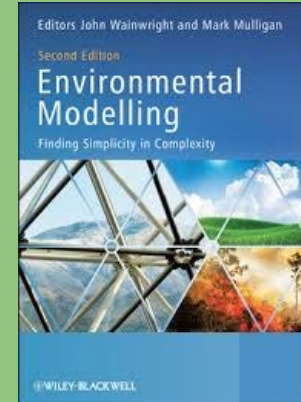
All our teachers & sponsors are awesome. This year we are able to give them a “Thank You Very Much!” surprise stipend.



Environmental Modeling Award

Team #4 Optimizing the Geographic Location of Renewable Energy Sources

School **Capital High, Santa Fe High, Santa Fe Prep**
Team Members **Lucas Blakeslee, Ian Olson, Valentin Ornelas, Shrey Poshiya**
Sponsors **Irina Cislaru, Jocelyn Comstock**



NMTIE Teamwork Award

NMTIE - Furthering Education Through Technology

Team #23 Maze Project

School

Justice Code/International/Harrison

Team Members

**Mekhi Bradford, Kingsley Walker, Wellbeing
Ogunsanwo, Hero Okhaifoh, Nkemjika Aluka,
Kamsi Anyanwu**

Sponsor

Caia Brown, Rebecca Campbell



Creativity & Innovation Award

Sponsored by Sandia National Laboratories



**Sandia
National
Laboratories**

Team #45 Entropy in Chess

School

Santa Fe High

Team Members

**Armando Martinez-Brito, Aengus McGuinness,
William Barral, Roman Nappi**

Sponsor

Brian Smith



Equity and Access Award

Team #10 Datacasting, An Opportunity in Education Equity

School

Taos High School

Team Members

**Athanasios Bertin, Gracie Goler,
Carlos Miller, Lola Shropshire, Lakai Tucker**

Sponsor

Tracy Galligan



Logo for Next Year 2022 - 23

And the Logo is

-

-

-





Logo for Next Year 2022 - 23

CREATING A LOGO FOR NEXT YEAR IS WORTH
\$200 TO YOU.

WE'LL LOOK FOR SUBMISSIONS UNTIL JUNE 1, 2022.

Send your submission to logo@supercomputingchallenge.org





A Tribute to Shaun Cooper

Retired Master of Ceremonies, teacher sponsor, mentor, board of directors, and judge.

Challenge Advocate from 1991 - 2021



Message from Marisol Gamboa,
Challenge Alum



Shaun Cooper Participation Award

Kyreen White

Manzano High School

7 years of participation

Perseverance!



New Mexico Network for Women in Science and Engineering

Team #16 A-maz-ing Algorithms

School

Cottonwood Classical/Del Norte High

Team Members

Ayvree Urrea, Kiara Onomoto, Violet Kelly

Sponsor

Karen Glennon

Presented by Cheri Burch



Human Computer Interaction



Team #47 Developing a Control Algorithm and Simulation for Thrust-Vector-Controlled Rockets

School Los Alamos High

Team Members Daniel Kim, Andres Iturregui



Expo Judges' Special Award

Waste Not, Want Not

Team #13 Management of Waste and Reduction of Hydrocarbon Emissions

School

Taos High School

Team Members

**Flynn Basehart, Brian Hoang,
Izaiah Gonzales, Chris Rivera**

Teacher/Sponsor

Tracy Galligan



Expo Judges' Special Award

Distribution of Power

Team #3 How Climate Change Affects Power Outage and the Distribution of Power

Schools

Manzano High & Eldorado High

Team Members

**Nancy Avila Do, Candis Canaday,
Gwenevere Caouette, Kyreen White**

Sponsor

Sharee Lunsford/Karen Glennon



Finalist Judges' Special Award Exploration Award

**Team #12 Measuring, Analyzing, Prediction and Improving the
Quality of Air**

School

Capital High

Team Members

**Isel Aragon, Zachariah Burch,
Britny Marquez, Joshua Tamarra**

Sponsor

Barbara Teterycz



Finalist Judges' Special Award

Spectroscopic Modeling

Team #24 Effects of Combinations of Halogen Additions to Molecules on Absorption/Emission Wavelengths

School **La Cueva High**

Team Members **Melody Yeh**

Sponsor **Creighton Edington**





Scholarship Recipients



Scholarship Committee

Hope Cahill, Creighton Edington

and **Dana Roberson**



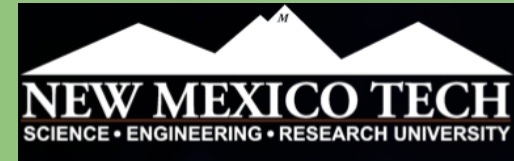


Scholarship Recipients

	<u>High School</u>	<u>University</u>
Nancy Avila	APS Eldorado	New Mexico Tech
Candis Canaday	APS Manzano	New Mexico Tech
Gwenevere Caouette	APS Manzano	New Mexico Tech
Juan de la Riva	Capital High	New Mexico Tech
McLight Emma-Asonye	Justice Code	CNM
Madelyn Kingston	NM School for the Arts	Carleton College
Mariah Rivera	Capital High	University of Denver
Jack Sparrow	Monte del Sol	UNM
Joshua Tamarra	Capital High	CNM
Angel Velasquez	Monte del Sol	UNM
Kyreen White	APS Manzano	UNM



Scholarship Donors



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- Los Alamos National Laboratory
- New Mexico Consortium
- Triad National Security, LLC

Platinum Partners

- Sandia National Laboratories

Gold Partners

- Cray, a Hewlett Packard Enterprise company
- Westwind



Silver Partners

- Gulfstream Group and bigbyte.cc
- PNM

Bronze Partners

- Air Force Research Lab, Kirtland
- ABQ-IT, a division of Albuquerque Computer and Electronics Recycling Center
- Descartes Labs
- Intel
- Los Alamos National Laboratory Foundation
- New Mexico Technology In Education (NMTIE)
- Simtable/Redfish Group



Educational Partners

- The Center for Connected Learning (CCL) and Computer-Based Modeling/NetLogo
- CNM Ingenuity, Inc
- Eastern New Mexico University
- MIT Starlogo-Nova
- New Mexico EPSCoR, Experimental Program to Stimulate Competitive Research
- New Mexico Highlands University



More Educational Partners

- New Mexico Institute of Mining and Technology
- New Mexico Public Education Department
- New Mexico State University
- Northern New Mexico College
- San Juan College
- Santa Fe Community College
- University of New Mexico
- UNM - Center for Advanced Research Computing



Friends of the Challenge

- Computer Science Alliance, Paige Prescott
- Dr. Shaun Cooper, NMSU
- Matthew Curry, Sandia National Labs
- Daniel and Mel Fuka
- INTERA - Geoscience and Engineering Solutions
- NM Network for Women in Science and Engineering
- Fred J Voss
- Windspirit Therapeutic Massage



We'll see you next year!!!
It will be our 33rd year!

Congratulations Seniors!

We look forward to your coming back to be an alumni supporter!

