

WELCOME TO THE 33rd ANNUAL **AWARDS** CEREMONY



You Took The Challenge! You Finished the Marathon!





Message from our Executive Director David Kratzer





Right hand picture shows David (in the hat) with four generations in the same pjs.



Los Alamos National Laboratory Welcomes You!



A word from
Angela Mielke
Executive Officer Deputy Director
for Science, Technology & Engineering



New Mexico Consortium



Thanks to Steve Buelow, CEO NM Consortium, and his staff for all their continued support!







Consult Welcomes You!!









Alphabetically by first name: Celia, David, Karen, Patty





New Schools to the Challenge This Year



McKinley Middle School

Tucumcari High School



Congratulations to the 2022-2023 Finalists Teams!

Team 2

Team Members:

Sponsor: Mentor:

Team 4

Team Members:

Sponsor:

La Cueva High School

Karen Glennon

Flora Coleman

For Crying "Drought" Loud

Machine Learning based Accessible Mobile App for

Activity Recognition and Freezing of Gait Monitoring in Parkinson's Patients

Abitpal Gyawali, Aditya Koushik, Aiden Shoppel, Amandeep Prasankumar, Venkata Menta

Cottonwood Classical and Del Norte High School

Ayvree Urrea, Kiara Onomoto, Violet Kelly

Jeremy Jensen

The Finalists Team 6

Team Member:

Team Members:

Sponsor:

Team 9

Sponsor:

Mentor:

A Robotic Fire and Fire Weather Measuring System, Smokey Zachariah Burch, Isel Aragon, Britny Marquez,

Capital High School

Sandia High School

Tristan Eggenberger

Bradley Knockel

Simulator

SINGS: A Simple Interactive N-body Gravitation

Daniel Leon

David Ritter

Barbara Teterycz

Team 10

Academy For Tech & Classics Predicting Heuristics Related to the

Controversiality of a Social Media Post

Team Members: Henry Tischler, Gene Huntley Sponsor: Jenifer Hooten

Team 13

La Cueva High School Tracking Cislunar Orbits

Team Members: Hadwyn Link, Ximena Serna, Kylen Reyner

Sponsor: Jeremy Jensen

Mentor: Mario Serna

Mentor:

Team 14 Los Alamos High School

Mapping Anthropogenic Ocean Litter with an

Autonomous Underwater Vehicle

Team Member: Daniel Kim

Sponsor: Michela Ombelli

Team 27 Monte del Sol Charter School

Stress Anxiety Monitor (SAM)

Team Members: Gabriella Armijo, Emlee Taylor-Bowlin

Sponsor: Rhonda Crespo

Mark Galassi



Team 50 St. Thomas Aquinas School

Galaxies Far, Far Away

Team Member: Catherine Sedillo

Sponsor: Eric Vigil

Mentor: James Sedillo

Innovative Data Science Award

CNM Ingenuity, Inc.

Innovative Data Science Award

Team 19 Santa Fe Preparatory School

Genetics of ADHD

Team Members: Camila Carreon, Greta Swanson, Luke Rand, Nandita Ganesan

Sponsor: Jocelyn Comstock

Mentors: Juergen Eckhert, Quinton Flores





Innovative Machine Learning Award



Innovative Machine Learning Award

Team 10 Academy For Tech & Classics

Predicting Heuristics Related to the Controversiality of a

Social Media Post

Team Members: Henry Tischler, Gene Huntley

Sponsor: Jenifer Hooten

Professional Presentation

Eric Chavez, Field Representative

Representing U.S. Senator Ben Ray Luján



Most Professional Presentation

Team 4 La Cueva High School

Machine Learning based Accessible Mobile App

for Activity Recognition and Freezing of Gait

Monitoring in Parkinson's Patients

Team Members: Abitpal Gywali, Aditya Koushik, Aiden Shoppel,

Amandeep Prasankumar, Venkata Menta

Sponsor: Jeremy Jensen



Award for StarLogo Agent-based Modeling



Eric Klopfer, MIT STEP Lab

Developers of StarLogo-Nova



Award for StarLogo Agent-based Modeling



Team 18 Media Arts Collaborative Charter School,

Mental Health Apps And The Need For A

Crisis Button

Team Members: Eduardo Dorado, Ana Sofia Rodriguez,

Wyatt Wade

Sponsor: Tanya Mueller

Get out your badge number for a random prize drawing for finishing this marathon!



And the winner is

Human Computer Interaction

Sponsored by

Stephen Guerin, SimTable



Human Computer Interaction

Team 27 Monte del Sol Charter School

Stress Anxiety Monitor (SAM)

Team Members: Gabriella Armijo, Emlee Taylor-Bowlin

Sponsor: Rhonda Crespo

Mentor: Mark Galassi

Head Judges

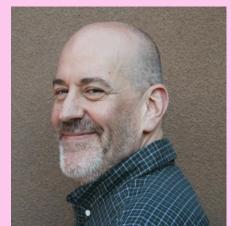
Michael Trahan

Nick Bennett

Richard Barrett

Kaley Woelfel









Recognition of Expo Judges

Ed Angel

Gennie Barrett

Richard Barrett

Nick Bennett

Jesse Crawford

Mohit Dubey

Susan Gibbs

Phil Jones

Nicholas Kutac

Peter Lamborn

Max Lazo

Joan Lucas

Monique Morin

Joseph Olonia

James Overfelt

Veena Parboteeah

Abdaleziz Raad

Lonnie Rednour

Reffat Sharmeen

Geoff Valdez

Peter Watson

James Wernicke



Finalists Judges

Daniel Appel

Joan Appel

Sharon Deland

Stephen Guerin

David Janecky

Maureen Psaila-Dombrowski

Tom Robey

Michael Trahan

Kaley Woelfel





Shout Out to Alan Daugherty & Mary Sagartz

Code Break Team





Community Impact Award





Community Impact Award





Team 9 Capital High School

A Robotic Fire and Fire Weather Measuring

System, Smokey

Team Members: Zachariah Burch, Isel Aragon, Britny Marquez,

Daniel Leon

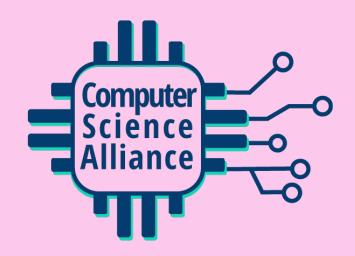
Sponsor: Barbara Teterycz

Mentor: David Ritter



Middle School Award





Middle School Award

Team 50

St. Thomas Aquinas School

Galaxies Far, Far Away

Catherine Sedillo

Eric Vigil

James Sedillo

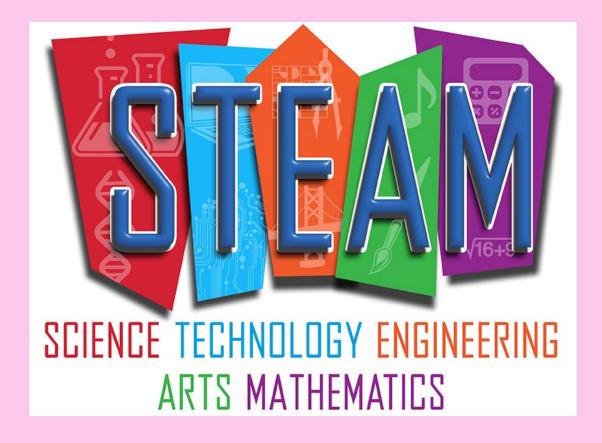
Team Member:

Sponsor:

Mentor:



STEAM Award







STEAM Award



Team 44

Team Member: Sponsor:

La Cueva High School

Tech Generated Art Victoria Outkin Jeremy Jensen



Teacher Appreciation Award







Teacher Appreciation Awards

A good education can change anyone.

A good teacher can change everything.



Presented by: Aileen Ukwuoma

Alex Ukwuoma



Caia Brown

Justice Code/Harrison Middle School

Presented by: Aileen Ukwuoma

Alex Ukwuoma



Presented by: Alexandrina Ukwuoma

Rebecca Campbell

Justice Code/Harrison Middle School

Presented by: Alexandrina Ukwuoma



Presented by: **Emlee Taylor-Bowlin**

Rhonda Crespo

Monte Del Sol

Presented by: **Emlee Taylor-Bowlin**



Presented by **Sariah Mardo**

Thomas (Tommy) Evans

Tucumari High School

Presented by Sariah Mardo



Presented by: Zachariah Burch

Barbara Teterycz

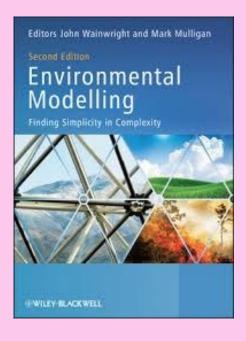
Capital High School

Presented by: Zachariah Burch





Environmental Modeling Award





Environmental Modeling Award

David Janecky, Sponsor, Challenge Advocate

Team 2

Sponsor:

Mentor:

Cottonwood Classical and Del Norte High School

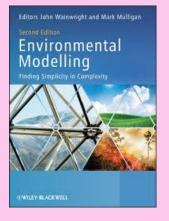
For Crying "Drought" Loud

Ayvree Urrea, Kiara Onomoto, Violet Kelly Team Members:

Karen Glennon

Flora Coleman







NMTIE Teamwork Award

NMTIE

Furthering Education through Technology



NMTIE Teamwork Award

NMTIE

Furthering Education through Technology

Team 8 Capital High School

Analyzing the Impact of COVID and its

Correlation with Vaccines

Team Members: Julia Almeida, Leslie Gutierrez,

Guadalupe Rojo, LaTrisha Padilla

Sponsor: Irina Cislaru

Mentor: Jon Brown

NMTIE Research Award

NMTIE

Furthering Education through Technology





NMTIE Research Award



Furthering Education through Technology

Team 13

La Cueva High School

Tracking Cislunar Orbits

Team Members: Hadwyn Link, Ximena Serna, Kylen Reyner

Sponsor: Jeremy Jensen

Mentor: Mario Serna



Creativity & Innovation Award

Sponsored by





Creativity & Innovation Award Sponsored by Sandia National Laboratories



Team 37 Justice Code

Testing the Efficacy of our Superspray on

the Oral Microbiome

Team Members: Valerie Ozigbo, Gloria C. Enga

Sponsor: Becky Campbell

Mentor: Dr. Anthony Lupinetti



Numbers Please!





Logo for Next Year 2023 - 24

And the Logo is

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•

•



Logo for Next Year 2023 - 24

CREATING A LOGO FOR NEXT YEAR IS WORTH

\$200 TO YOU!

WE'LL LOOK FOR SUBMISSIONS UNTIL JUNE 1, 2023

Send your submission to logo@supercomputingchallenge.org





Technical Poster Award







Technical Poster Award

Team 14

Los Alamos High School

Mapping Anthropogenic

Ocean Litter with an

Autonomous

Underwater

Vehicle

Team Member:

edin Member.

Sponsor:

Daniel Kim

Michela Ombelli







Crowd Favorite Award







Crowd Favorite Award

Team 41 Justice Code/International/Harrison

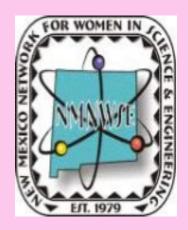
Tsunami Disaster Detection

Team Members: Kolton Walker, Delight Emma-Asonye, Leilani Baty

Sponsors: Caia Brown, Becky Campbell, Ryan Palmer



New Mexico Network for Women in Science and Engineering



New Mexico Network for Women in Science and Engineering

Team 39 Justice Code

AI Basketball

Team Members: Frances Emma-Asonye, Praise Ejimkonye

Sponsor: Becky Campbell

Mentor: Patty Meyer

Presented by Cheri Burch







Magellan Award An Explorer and a Risk Taker

Sponsored by Daniel and Mel Fuka, Challenge Advocates





Magellan Award

Team 15

Team Member:

Sponsor:

Cleveland High School
Artificially made or not?
Layla Barela
Ashli Knoell



Judges' Special Awards





Expo Judges' Special Award

Resource Efficiency

Team 29 Tucumcari High School

Wind Turbine Fencing

Team Members: Sariah Mardo, Rachel Mardo

Sponsor: Thomas Evans

Mentor: Creighton Edington

Expo Judges' Special Award

Reach for the Sky

Team 28 Los Alamos High School

Developing an Autonomous Aerial Package

Transport System

Team Member: Andres Iturregui

Sponsor: Allan Didier

Mentor: Clint Hubbard

Finalist Judges' Special Award

Coastal Guardian

Team 41 Justice Code/International/Harrison

Tsunami Disaster Detection

Team Members: Kolton Walker, Delight Emma-Asonye,

Leilani Baty

Sponsors: Caia Brown, Becky Campbell, Ryan Palmer



Finalist Judges' Special Award

Building Blocks of Adaptability

Team 22 Tucumcari High School,

Using Sensors to Detect and Maintain

Distances in the Real World

Team Members: Aaron Chand, MiKayla Klinger

Sponsors: Thomas Evans, Morisa Evans

Mentor: Harry Henderson

Sponsor Recognition

Kudos for our sponsors!!

The people in these businesses and companies helped us reach the Finish Line!!



Primary Partners

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

Platinum Partners

Sandia National Laboratories

Gold Partners

- Westwind
- New Mexico Family and Community Engagement Solutions (New Mexico FaCES)

Silver Partners

- The Encantado Foundation Gulfstream Group and bigbyte.cc
- Los Alamos National Laboratory Foundation
- PNM

Bronze Partners

META

- Air Force Research Lab, Kirtland
- ABQ-IT
- Descartes Labs
- Holmans
- HPE/Carahsoft
- Intel
- New Mexico Technology Council
- 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 Collège
- San Juan College
- Santa Fe Community College
- University of New México
- UNM Center for Advanced Research Computing



Friends of the Challenge

- Abba Technologies
- Cahill Family
- Computer Science Alliance, Paige Prescott
- Dr. Shaun Cooper, NMSU
- Daniel and Mel Fuka
- Clint Hubbard
- Maximo Lazo
- Irene Lee/Roger Critchlow
- Merrick



Friends of the Challenge (continued)

- NM Network for Women in Science and Engineering
- Risksense
- Peggy and Bob Robey
- Sealaska
- Stemboomerang
- Fred J Voss
- Windspirit Therapeutic Massage



You, too, can be a Challenge Sponsor!!





Support the Supercomputing Challenge when you shop!

Visit http://www.smithsfoodanddrug.com/inspire. Search for Supercomputing Challenge either by name or MY603 and then click Enroll.

New users need to create an account requiring some basic information, a valid email address and a *rewards* card.



Scholarship Recipients



Scholarship Committee

Hope Cahill, Creighton Edington,

and **Dana Roberson**





Daniel Leon

Kiara Onemoto

Isaac Rankin

Ayvree Urrea

	Scholarship Recipients	
<u>Name</u>	<u>High School</u>	<u>University</u>
Isel Arragon	Capital High School	Santa Fe CC
Zachariah Burch	Capital High School	University of Portland
Gloria Engle	Justice Code	Undecided
Violet Kelly	Cottonwood Classical Prep	Oregon State University

Cottonwood Classical Prep

Capital High School

Justice Code

Del Norte High School

Neumont College CS/Utah

University of Rochester/NY

Oral Roberts University

Undecided

Scholarship Donors







Challenge Alumni









And the moment we have ALL been waiting for

Another
Drum roll,
please!



But First Another...







For real this time

Our Third Place Winner is......

Another
Drum roll,
please!



Third Place

Team 6 Sandia High School

SINGS: A Simple Interactive

N-body Gravitation

Simulator

Team Member: Tristan Eggenberger

Sponsor: Bradley Knockel



CONGRATULATIONS!



Our Second Place Winner is......

Drum roll....



Second Place

Team 14

Los Alamos High School

Mapping Anthropogenic

Ocean Litter with an

Autonomous Underwater

Vehicle

Team Member:

Sponsor:

Daniel Kim

Michela Ombelli





The moment we've all been waiting for!

Our First Place Winner is......



First Place

Team 4

La Cueva High School

Machine Learning based Accessible Mobile App for Activity Recognition and Freezing of Gait Monitoring in Parkinson's Patients

Team Members:

Abitpal Gyawali, Aditya Koushik, Aiden Shoppel, Amandeep Prasankumar, Venkata Menta

Sponsor:

Jeremy Jensen

WONDERFUL ACHIEVEMENT!











First Place Winners

Brief overview of their project...

Go for it!

We'll see you next year!!! It will be our 34th year!



Congratulations Seniors!

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

