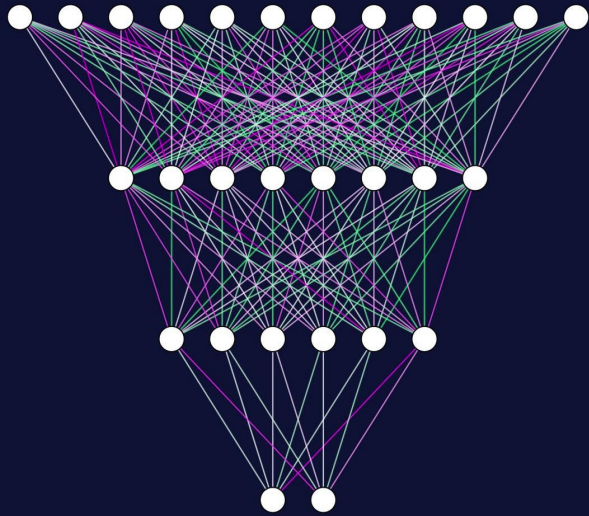


Supercomputing Challenge

Training Computers and Minds



2022-2023

Designed by Team 47, Los Alamos High School

WELCOME TO THE 33rd ANNUAL AWARDS CEREMONY



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

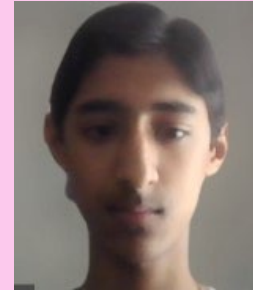
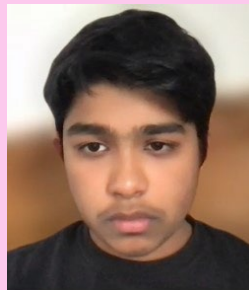
Team Members:

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

Sponsor:

Jeremy Jensen

**WONDERFUL
ACHIEVEMENT!**



Second Place

Team 14

Los Alamos High School
*Mapping Anthropogenic
Ocean Litter with an
Autonomous Underwater
Vehicle*

Team Member:

Daniel Kim

Sponsor:

Michela Ombelli



GOOD WORK!!

Third Place

Team 6

Sandia High School
*SINGS: A Simple Interactive
N-body Gravitation
Simulator*

Team Member:

Tristan Eggenberger

Sponsor:

Bradley Knockel



CONGRATULATIONS!





New Schools to the Challenge This Year



McKinley Middle School

Tucumcari High School

Congratulations to the 2022-2023 Finalists Teams!



The Finalists

Team 2

Team Members:

Sponsor:

Mentor:

Cottonwood Classical and Del Norte High School

For Crying "Drought" Loud

Ayvree Urrea, Kiara Onomoto, Violet Kelly

Karen Glennon

Flora Coleman

Team 4

Team Members:

Sponsor:

La Cueva High School

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

Jeremy Jensen



The Finalists

Team 6

Sandia High School

SINGS: A Simple Interactive N-body Gravitation Simulator

Team Member:

Tristan Eggenberger

Sponsor:

Bradley Knockel

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



The Finalists

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



The Finalists

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

Mentor:

Mark Galassi

The Finalists

Team 50

St. Thomas Aquinas School

Galaxies Far, Far Away

Team Member: Catherine Sedillo

Sponsor: Eric Vigil

Mentor: James Sedillo

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

CNM In[?]enuity, Inc.



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

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



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

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

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:

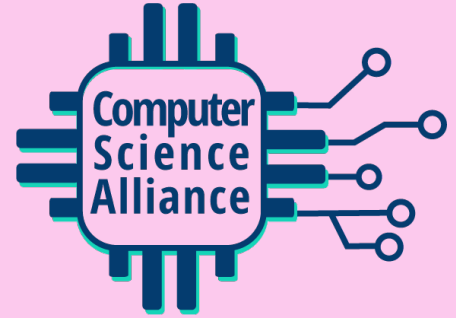
Barbara Teterycz

Mentor:

David Ritter



Middle School Award



Team 50

St. Thomas Aquinas School

Galaxies Far, Far Away

Team Member:

Catherine Sedillo

Sponsor:

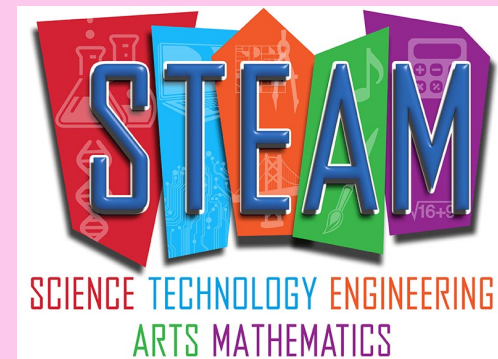
Eric Vigil

Mentor:

James Sedillo



STEAM Award



Team 44

Team Member:

Sponsor:

La Cueva High School

Tech Generated Art

Victoria Outkin

Jeremy Jensen



Teacher Appreciation Award

Caia Brown

Justice Code/Harrison Middle School

Presented by: **Aileen Ukwuoma**

Alex Ukwuoma



Teacher Appreciation Award

Rebecca Campbell

Justice Code/Harrison Middle School

Presented by: **Alexandrina Ukwuoma**



Teacher Appreciation Award

Rhonda Crespo

Monte Del Sol

Presented by: **Emlee Taylor-Bowlin**



Teacher Appreciation Award

Thomas (Tommy) Evans

Tucumari High School

Presented by **Sariah Mardo**



Teacher Appreciation Award

Barbara Teterycz

Capital High School

Presented by: **Zachariah Burch**



Environmental Modeling Award

David Janecky, Sponsor, Challenge Advocate

Team 2

Cottonwood Classical and Del Norte High School

For Crying "Drought" Loud

Team Members:

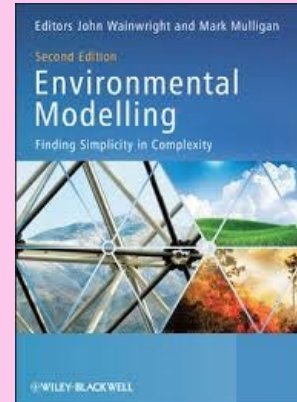
Ayvree Urrea, Kiara Onomoto, Violet Kelly

Sponsor:

Karen Glennon

Mentor:

Flora Coleman



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

Team 13

Team Members:

Sponsor:

Mentor:

La Cueva High School

Tracking Cislunar Orbits

Hadwyn Link, Ximena Serna, Kylene Reyner

Jeremy Jensen

Mario Serna



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



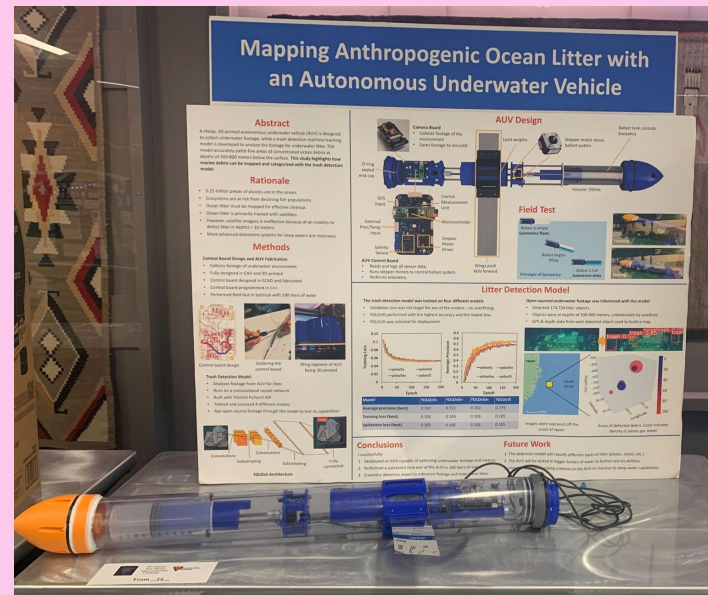
Technical Poster Award

Team 14

Los Alamos High School
Mapping Anthropogenic Ocean Litter with an Autonomous Underwater Vehicle

Team Member:
Sponsor:

Daniel Kim
Michela Ombelli





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

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

Team 15

Cleveland High School

Artificially made or not?

Team Member:

Layla Barela

Sponsor:

Ashli Knoell



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



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
Daniel Leon	Capital High School	Neumont College CS/Utah
Kiara Onemoto	Del Norte High School	University of Rochester/NY
Isaac Rankin	Justice Code	Undecided
Ayvree Urrea	Cottonwood Classical Prep	Oral Roberts University



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!