

April 28, 2020 Via Zoom Webinar

WELCOME TO THE 30th ANNUAL **AWARDS CEREMONY**



You Took the Challenge! You Finished the Marathon!







Master of Ceremonies

Shaun Cooper

Past Member, Supercomputing Challenge Board of Directors
Retired NMSU CIO
College Professor, CS, NMSU





David Kratzer Introduces New Executive Director: Paige Prescott!









LANL/Triad Welcomes You!

Thom Mason

President and CEO of Triad National Security and Director of Los Alamos National Laboratory



- EST. 1943 -----

New Mexico Consortium



Thanks to Steve Buelow, CEO, NM Consortium, for all his assistance and support this year!





Consult Welcomes You



Through Patty, the Dinosaur! David and Paige!

Celia, Teri and Karen!









Happy Birthday, dear Patty!





Presentation 2020 Finalists



Drum Roll, please!



Team 13, Capital High
Project Title: Gun Block: Detecting Guns
in a Video Stream Using Learning







Team Members: Edwardo Pena, German Rojo, Oscar Sandoval Torres

Team 16, Eldorado High Project Title: It's Raining Seeds! Hallelujah!





Team Members: Brendan Kuncel, Savannah Phelps



Team 17, Grady High

Project Title: Encouraging Anti-Diabetic Lifestyles in NM Communities







Team Members: Alexis Brandsma, Erynn Vetterly, Tristen Pool

Team 20, Los Alamos High

Project Title: Activity-by-Contact Model to

Predict

Enhancer-Gene Connections



Team Member: Lillian Petersen



Team 56, Cottonwood Classical/Del Norte Project Title: Albuquerque Fire Department Wait Times





Team Members: Kiara Onomoto, Ayvree Urrea

Team 59, NM School of the Arts

Project Title: It's 'Bout to Get Lit Up in Here:

Modeling Forest Fire Risks in Northern NM

Team Members: Rowen Jansens, Madelyn Kingst Maya Landess, Brandon Morrison











Team 66, Socorro High Project Title: Project Co-Op

Team Members: Cody Johnston, Elias Zheng, Lucas Ward, Rio Sessions











Project Title: Modeling Unknown Dynamical Systems with Neural Differential Equations -

Team Member: Robert Strauss





Team 1005, Los Alamos High

Project Title: Comparing Sparse and Dense Neural

Networks: Using AI to Detect Cancer

Team Member: Charles Strauss



I Took the Challenge! Returning School

New Mexico Military Institute



Yoo Younggun



Ryan Lee



Nguyen Long



Khoa Do

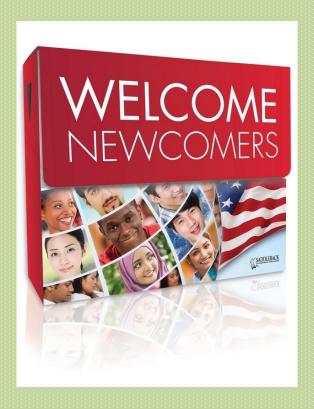


Jaejoon Lee





Newcomer Award



Sponsored by Bob and Peggy Robey



Newcomer Award

Team

School

17, Encouraging Anti-Diabetic

Lifestyles in NM Communities

Grady High

Team Members Alexis Brandsma, Erynn Vetterly,

Tristen Pool

Teacher Sponsor Leah Lee Mentor

Alan Daugherty



Magellan Award



Sponsored by Bob and Peggy Robey



Magellan Award

Teams

School

Members

1008, 1010, 1020

Gadsden Mid School

Melody Pantoja, Yakov Esparza

Manuel Lopez, Carlos Villegas

Jesus Baca, Haleigh Garcia

Teacher Sponsor Danielle McFarland





Professional Presentation







Professional Presentation

Team School 59, Modeling Forest Fire Risks In NM NM School for the Arts

Team Members

Rowan Jansens, Madelyn Kingston, Maya Landess, Brandon Morrison

Teacher Sponsor Mohit Dubey

Mentor

Stephen Guerin



Award for Agent-based Modeling using

NetLogo



Sponsored by Uri Wilensky Inventor of NetLogo

Chosen by Nick Bennett and Stephen Guerin



Agent-based Model using NetLogo Award

Team 17, Encouraging Anti Diabetic

Lifestyles in NM Communities

School Grady High

Team Members Alexis Brandsma, Erynn Vetterly,
Tristen Pool

Teacher Sponsor Leah Lee





LANL Environmental Modeling Award





LANL Environmental Modeling Award

Los Alamos NATIONAL LABORATORY

Team 1016, Wildfire Spread

School Monte Del Sol

Team Members Nefi Guevara, Hebert Soto,

Maximillian Montoya, Shayla Anthony

Teacher Sponsor Rhonda Crespo



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



And the winner is and the prize will be mailed to them shortly!



Senator Udall's Climate Change Challenge Award





Senator Udall's Climate Change Challenge Award

Team 58, Deforestation Simulation Project

School NM Military Institute

Team Members Yoo Younggun, Jaejoon Lee,

Nguyen Long, Ryan Lee, Khoa Do

Teacher Sponsor Mark Stone

Mentor

Elizabeth Kallman, Chris Brown

Technical Writing Award





Technical Writing Award

Team

20, Activity-by-Contact Model to Predict Enhancer-Gene Connections: A Tool to Increase our Understanding of Cancer

School Team Member Mentor Los Alamos High Lillian Petersen Graham McVicker





Recognition of Judges







Community Impact Award



Sponsored by

Mark Fidel





Community Impact Award



Team

56, Albuquerque Fire Department **Wait Times**

School

Cottonwood Classical/Del Norte

Team Members Ayvree Urrea, Kiara Onomoto

Teacher Sponsor Karen Glennon



Innovation in Programming Award



Innovation in Programming Award

Team

School **Team Member Robert Strauss**

1003, Automatic Differentiation and Al Applied to **Computational Physics**

Los Alamos High



Web Presentation of Final Report Award



Web Presentation of Final Report Award

Team School

Team Members

Teacher Sponsor

66, Project CO-OP Socorro High





Cody Johnston, Elias Zheng, Lucas Ward, Rio Sessions

Jay Garcia





Middle School Award





Middle School Award

Team School

21, How to Win Monopoly Los Alamos Middle Team Members Asher Koh, Hyunoo Kim



Mentors

Aik-Siong Koh & S. Jun Kim





Teacher Appreciation Award







Teacher Appreciation Award



Recipient

Tracie Mikesell

Mesilla Valley Leadership

Academy



NMTIE Research Award

NMTIE Furthering Education through Technology





NMTIE Research Award

NMTIE

Furthering Education through Technology

Team

School

Team Members

Mentor

13, Gun Block: Detecting Guns in Video Stream Using Machine Learning

Capital High

Edwardo Pena, German Rojo,

Oscar Sandoval Torres

Teacher Sponsor Barbara Teterycz, Irina Cislaru

David Gunter



NMTIE Teamwork Award

NMTIE

Furthering Education through Technology





NMTIE Teamwork Award

NMTIE

Furthering Education through Technology

Team

School

Team Members

Teacher Sponsor

Mentor

16, It's Raining Seeds. Hallelujah!

Eldorado High

Brendan Kuncel, Savannah Phelps

Karen Glennon

Patty Meyer



Science Rocks Award



Science Rocks

Team School **Team Members** 22, Fuel for Our Future Los Lunas High Delsin Jaramillo, Edwin Fernandez (not pictured)

Teacher Sponsor Anne Loveless





Creativity and Innovation Award



Creativity and **Innovation Award**

Team

School

Team Members

Teacher Sponsor Alan Daugherty

51, Deep Space Travel

Melrose Middle

Heidi Macfarlane,

Levi Garrett (not pictured)





Numbers Please!





Logo for Next Year!

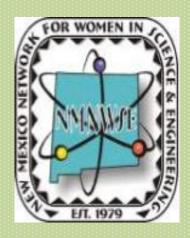
Supercomputing Challenge Logo for 2020-21

Will be decided next year & teams will be mentored by professional graphic artists

Sponsored by Dr. Shaun Cooper, NMSU



New Mexico Network for Women in Science and Engineering





New Mexico Network for Women in Science and Engineering

ream

School

Team Members

25, Internet of Things Security: How to Keep IoT Devices Secure at Home

Eldorado/Manzano High

Nancy Avila, Gwenevere Caouette, Priscila Flores, Kyreen White

Teacher Sponsors Sharee Lunsford, Karen Glennon

Mentor Patty Meyer

Judges' Special Awards

Artificial Intelligence in Medicine

Ecological Engineers

Pioneering in Neural Networks

Medical Imaging for Research



Judges' Special Award Artificial Intelligence in Medicine

Team 1017, Visual Detection of Melanoma

with A.I.

Los Alamos Middle

Team Members Andrew Morgan,

Harry McKigney (Not Pictured)

Ed McKigney, Nathaniel Morgan

Mentors

School



Judges' Special Award Ecological Engineers

Team 28, Avian Oasis Creating Water for

Endangered Birds

Media Arts Charter School

Team Member Colbie Boyd

School

Teacher Sponsor Creighton Edington



Judges' Special Award Pioneering in Neural Networks

Team

School

Team Members

Teacher Sponsor

Mentor

15, Giving Signatures a Purpose

Desert Academy

Jonatan Kaare-Rasmussen,

Ethan Garcia

Steff Eiter

Chris Zappe







Judges' Special Award Medical Imaging for Research

Team

School

Team Member

Mentor

1005, Comparing Sparse and Dense

Neural Network Using A.I. to

Detect Cancer

Los Alamos High

Charles Strauss

Garrett T. Kenyon





Human Computer Interaction

Sponsored by Stephen Guerin, SimTable





Human Computer Interaction Sponsored by Stephen Guerin, SimTable



Team Schoo

School

Team Members

Teacher Sponsor

Mentor

16, It's Raining Seeds! Hallelujah!

Eldorado High

Brendan Kuncel, Savannah Phelps

Karen Glennon

Patty Meyer



Hewlett Packard/Cray High Performance Computing Award







Sponsor Recognition

Kudos for our sponsors!!
The people in these businesses and companies helped us reach the Finish Line!!



Primary Sponsors







Platinum Sponsors







Gold Partners



Silver Partners





Bronze Partners















Educational Partners



















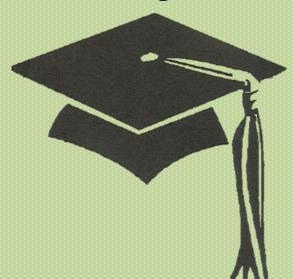








Scholarship Recipients



Hope Cahill, Creighton Edington, and Dana Roberson

Scholarship Committee



Scholarship Recipients

University

High School

Brendan Kuncel

New Mexico Tech

Eldorado HS

Maximillian Montoya

New Mexico Tech

Monte Del Sol

Monte Del Sol

Nefi Guevera Perez

New Mexico Tech

Harvard University

Los Alamos HS

German Rojo

Lillian Petersen

University of Denver

Capital HS



Scholarship Recipients

University

High School

Gracie Sanchez

ENMU

Melrose HS

Charles Strauss

Co. School of Mines Los Alamos HS

Oscar Torres

NMSU

Capital HS

Jerrel White

CNM

Manzano HS



And the moment we have ALL been waiting for....



Another drum roll, please!



But First Another





Third Place

Team School

Team Members

66, Project CO-OP Socorro High

Cody Johnston, Elias Zheng, Lucas Ward, Rio Sessions

Teacher Sponsor Jay Garcia











Second Place

Team

School
Team Member
Mentor

20, Activity-By-Contact Model to Predict Enhancer-Gene Connections: A Tool to Increase our Understanding of Cancer

Los Alamos High Lillian Petersen Graham McVicker





First Place

Team School

Team Members

Teacher Sponsor Mohit Dubey

Mentor

59, Modeling Forest Fire Risks in NM **NM School for the Arts**

Rowan Jansens, Madelyn Kingston, Maya Landess, Grandon Morrison

Stephen Guerin











First Place Winner's Brief overview of their project



And some parting words from Paige Prescott...



We'll See You Next Year !!!!



Congratulations Seniors!

No one is checking the c...