WELCOME TO THE 30th ANNUAL AWARDS CEREMONY

April 28, 2020
Via Zoom Webinar
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
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!
The Finalists

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
The Finalists

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
The Finalists

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
The Finalists

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

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

Team 1003, Los Alamos High
Project Title: Modeling Unknown Dynamical Systems with Neural Differential Equations

Team Member: Robert Strauss
The Finalists

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

Team 58
Newcomer Award

Sponsored by Bob and Peggy Robey
Newcomer 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

Mentor
Alan Daugherty
Magellan Award

Sponsored by
Bob and Peggy Robey
Magellan Award

Teams 1008, 1010, 1020
School Gadsden Mid School
Members Melody Pantoja, Yakov Esparza Manuel Lopez, Carlos Villegas Jesus Baca, Haleigh Garcia
Teacher Sponsor Danielle McFarland
Professional Presentation
Professional Presentation

Team
School
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

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 Los Alamos High
Team Member Lillian Petersen
Mentor Graham McVicker
Recognition of Judges

Amery Martinez

Nels Zoombie

Matthew Curry (San...)

Richard Barret

Patty Meyer

Matthew Curry (San...)

Celia Einhorn
Community Impact Award

Sponsored by
Mark Fidel

RiskSense
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
1003, Automatic Differentiation and AI Applied to Computational Physics

School
Los Alamos High

Team Member
Robert Strauss
Web Presentation of Final Report Award
Middle School Award
Middle School Award

Team School
Los Alamos Middle

Team Members
Asher Koh, Hyunoo Kim

Mentors
Aik-Siong Koh & S. Jun Kim
Teacher Appreciation Award

Thanks!
Teacher Appreciation Award

Recipient

Tracie Mikesell
Mesilla Valley Leadership Academy
NMTIE Research Award
NMTIE
Furthering Education through Technology
NMTIE Research Award

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

School Capital High

Team Members Eduardo Pena, German Rojo, Oscar Sandoval Torres

Teacher Sponsor Barbara Teterycz, Irina Cislaru

Mentor David Gunter
NMTIE Teamwork Award

**NMTIE**
Furthering Education through Technology
NMTIE Teamwork Award

**NMTIE**
Furthering Education through Technology

Team

School

Eldorado High

Team Members

Brendan Kuncel, Savannah Phelps

Teacher Sponsor

Karen Glennon

Mentor

Patty Meyer

16, It’s Raining Seeds. Hallelujah!
Science Rocks Award
Science Rocks

Team
School
Team Members
Teacher Sponsor

22, Fuel for Our Future
Los Lunas High
Delsin Jaramillo, Edwin Fernandez (not pictured)
Anne Loveless
Creativity and Innovation Award
Creativity and Innovation Award

Team
School
Team Members
Teacher Sponsor

51, Deep Space Travel
Melrose Middle
Heidi Macfarlane, Levi Garrett (not pictured)
Alan Daugherty
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

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

School
Eldorado/Manzano High

Team Members
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.

School Los Alamos Middle

Team Members Andrew Morgan,
Harry McKigney (Not Pictured)

Mentors Ed McKigney, Nathaniel Morgan
Judges’ Special Award
Ecological Engineers

Team 28, Avian Oasis Creating Water for Endangered Birds
School Media Arts Charter School
Team Member Colbie Boyd
Teacher Sponsor Creighton Edington
Judges’ Special Award
Pioneering in Neural Networks

Team
School
Desert Academy

Team Members
15, Giving Signatures a Purpose
Jonatan Kaare-Rasmussen,
Ethan Garcia

Teacher Sponsor
Steff Eiter

Mentor
Chris Zappe
Judges’ Special Award
Medical Imaging for Research

Team 1005, Comparing Sparse and Dense Neural Network Using A.I. to Detect Cancer

School Los Alamos High

Team Member Charles Strauss

Mentor Garrett T. Kenyon
Human Computer Interaction

Sponsored by
Stephen Guerin, SimTable
Human Computer Interaction
Sponsored by Stephen Guerin, SimTable

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!!
Gold Partners

Silver Partners

Bronze Partners
Scholarship Recipients

Hope Cahill, Creighton Edington, and Dana Roberson

Scholarship Committee
<table>
<thead>
<tr>
<th>Scholarship Recipients</th>
<th>University</th>
<th>High School</th>
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<tbody>
<tr>
<td>Brendan Kuncel</td>
<td>New Mexico Tech</td>
<td>Eldorado HS</td>
</tr>
<tr>
<td>Maximillian Montoya</td>
<td>New Mexico Tech</td>
<td>Monte Del Sol</td>
</tr>
<tr>
<td>Nefi Guevera Perez</td>
<td>New Mexico Tech</td>
<td>Monte Del Sol</td>
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<tr>
<td>Lillian Petersen</td>
<td>Harvard University</td>
<td>Los Alamos HS</td>
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<tr>
<td>German Rojo</td>
<td>University of Denver</td>
<td>Capital HS</td>
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<tr>
<td>Gracie Sanchez</td>
<td>ENMU</td>
<td>Melrose HS</td>
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<td>Charles Strauss</td>
<td>Co. School of Mines</td>
<td>Los Alamos HS</td>
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<tr>
<td>Oscar Torres</td>
<td>NMSU</td>
<td>Capital HS</td>
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<tr>
<td>Jerrel White</td>
<td>CNM</td>
<td>Manzano HS</td>
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And the moment we have ALL been waiting for.....

Another drum roll, please!
But First Another
Third Place

Team
School
Team Members
Teacher Sponsor

66, Project CO-OP
Socorro High
Cody Johnston, Elias Zheng, Lucas Ward, Rio Sessions
Jay Garcia
Second Place

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

School Los Alamos High

Team Member Lillian Petersen

Mentor Graham McVicker
First Place

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

Team Members
Rowan Jansens, Madelyn Kingston, Maya Landess, Grandon Morrison

Teacher Sponsor
Mohit Dubey

Mentor
Stephen Guerin
First Place Winner’s
Brief overview of their project
And some parting words from Paige Prescott...
We’ll Meet You Next Year!!!!

Congratulations Seniors!