



WELCOME TO THE 28th ANNUAL AWARDS CEREMONY

April 24, 2018



You Took the Challenge!

You Finished the Marathon!



Master of Ceremonies

Shaun Cooper

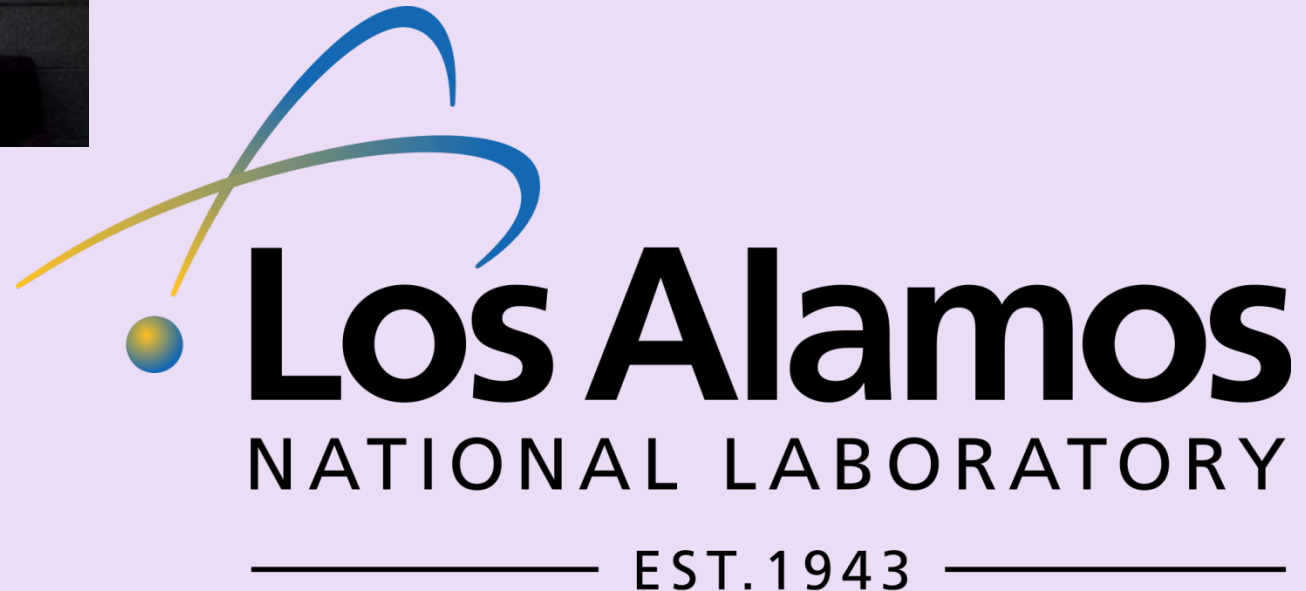
**Supercomputing Challenge
Past Member of the Board of
Directors
Retired NMSU CIO
College Professor, CS, NMSU**



LANL Welcomes You!



John Sarrao



Sandia Welcomes you!

Sandia National Laboratories



Presentation of the 2017 - 2018 Finalists



David Kratzer
Consult

Los Alamos National Laboratory



Mike Davis
Application Analyst
Cray, Inc.



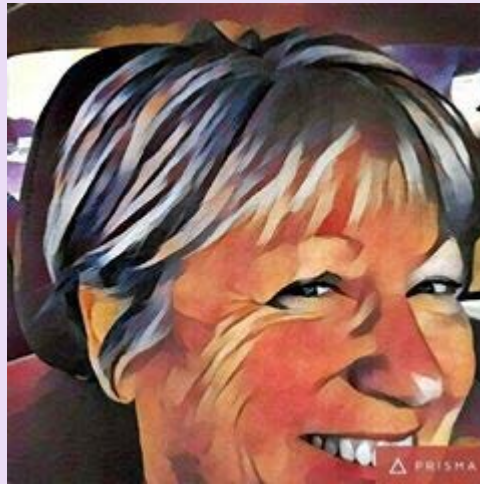
The Finalists

- Team ATC50, Academy For Technology and the Classics
- Team JMS32, Jackson Middle School
- Team LAHS56, Los Alamos High School
- Team LAHS71, Los Alamos High School
- Team LAHS201, Los Alamos High School
- Team LLHS47, Los Lunas High School
- Team MDS185, Monte Del Sol Charter School
- Team SFHS162, Santa Fe High School
- Team THS31, Taos High School
- Team THS159, Taos High School



I Took the Challenge!

First Year Schools



Presented by

Patty Meyer

Supercomputing Challenge



First Year and Returning Schools in the Challenge

- > **Barranca Mesa Elementary, Los Alamos**
- > **Piñon Elementary, Santa Fe**
- > **South Valley Academy Middle School**
- > **Upward Bound High School**
- > **Rio Abajo Community Library**



Newcomer Award



Presented by

Bob & Peggy Robey

Newcomer Award

Team: SVA144, South Valley Academy

Team Members: Makayla Paiz, April Sandoval, Zaira Enriquez,
Kimberly Kolander

Sponsor: Brian Dickinson



Magellan Award



Presented by

Bob & Peggy Robey

Magellan Award

Team: Taos High School

Team Members: Jenay Barela, Kineo Memmer, Jeremiah Martinez, Zak Willis, Rowan Kinney, Eben Bellas, Cyrus O'Hern, James Ryan Cox, Sawyer Solfest, Skylar Spriggs, Sierra Ferguson, Delaney Galligan, Joshua Fambro, Geneva Tafoya, Kyle Totman

Sponsor: Tracy Galligan

Mentor: Andrew Leonard, Nick Bennett, Gregory Rael



Thank You,
Bob Robey

Crowd Favorite



Presented by

Dean Gallagher
NM Tech Council



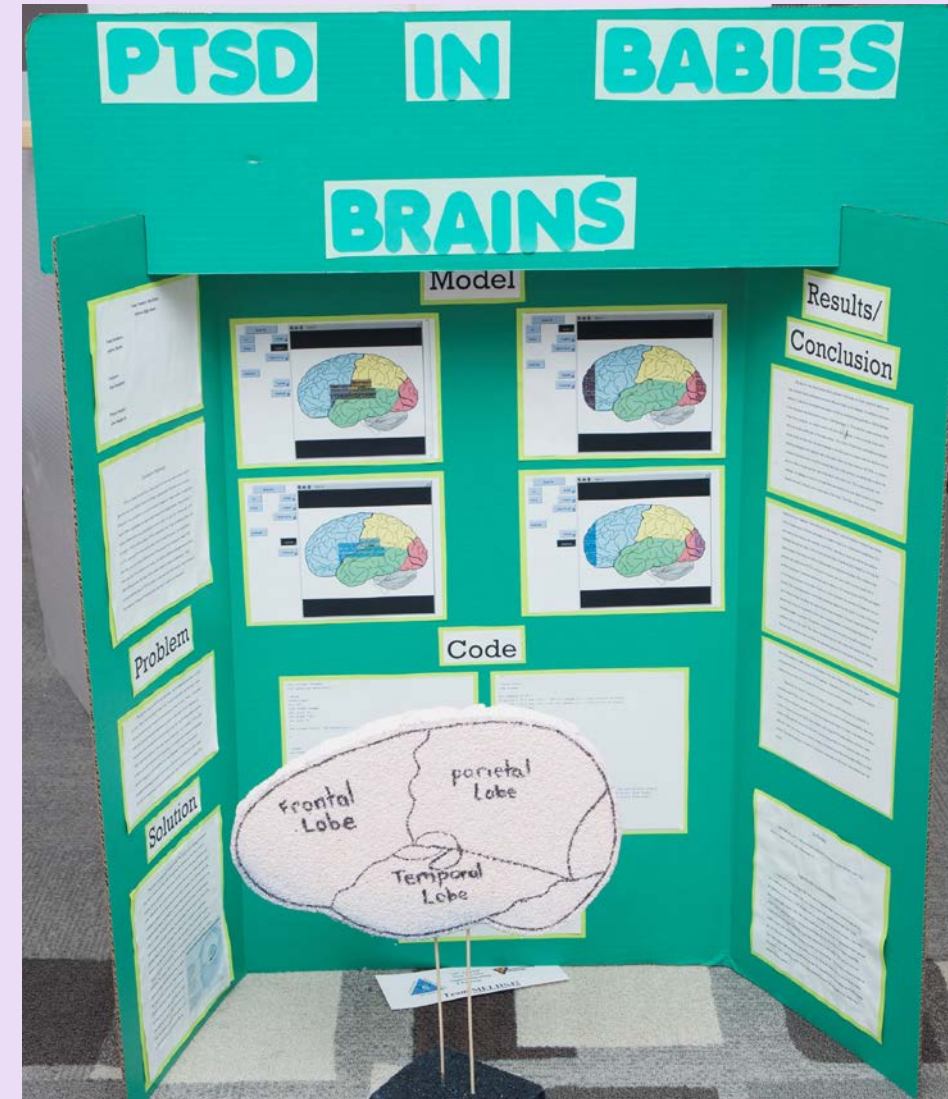
Crowd Favorite

Team: MELHS42, Melrose High School

Team Members: Andrea Martin

Sponsor: Alan Daugherty

Mentor: Alan Daugherty



Most Professional Presentation



Presented by:

Paige Prescott
President Of CSTA

Most Professional Presentation

Team: LLHS47, Los Lunas High School

Team Members: Jen Marie Phifer, Forest Good

Sponsor: Ann Loveless

Mentors: Nick Bennett, Creighton Edington, Annette Hatch,
James Taylor

Project: *What's Missing?*



Award for Agent-based Modeling using NetLogo

Presented by:

Nick Bennett

**CNM STEMulus Center,
Java Boot Camp**

Uri Wilensky

Creator of NetLogo



Agent-based Model using NetLogo Award

Team: JMS32, Jackson Middle School

Team Members: Brendan Kuncel, Quentin Dye

Sponsor: Karen Glennon

Mentor: Patty Meyer

Project: *A-Maze-Ing*



LANL Environmental Modeling Award



Presented by:

David Janecky

Manufacturing Science & Engineering Group



LANL

Environmental Modeling Award

Team: MELES41, Melrose Elementary School

Team Members: Lily Macfarlane, Heidi Macfarlane, Eoghen Knight

Sponsor: Alan Daugherty

Mentor: Seaver Tate

Project: *Crop dust? We must!!!*



NM Water/Climate Change Award

Presented by:

**Rep. Stephanie Garcia
Richard**



NM Water/Climate Change Award

Team: THS31, Taos High School,

Team Members: Rowan Kinney, Eben Bellas

Sponsor: Tracy Galligan

Mentor: Gregory Rael

Project: *Modeling Straw Mulch in Taos Agriculture*



Technical Writing Award

Presented by:

Michaela Negus, Sandia

Sponsored by:

Supercomputing Challenge



Technical Writing Award

Team: SFHS162, Santa Fe High School

Team Members: Rowan Cahill, Ramona Park, Luke Shankin

Sponsor: Brian Smith

Mentor: Hope Cahill



Recognition of Judges

Michael Trahan

Sandia National Laboratories

Principal Member of Technical Staff

Integration and Test, Group # 5515

Nick Bennett

CNM STEMulus Center, Java Boot Camp



Community Impact Award



Presented by:

Kaley Goatcher
TransCore

Community Impact Award

Team: LAHS56, Los Alamos High School

Team Members: Lillian Kay Petersen

Sponsor: Daniela Moody, Rick Chartrand

Project: *Predicting Food Shortages in Africa from Satellite*



Web Presentation of Final Report Award



Presented by:

Michele Jacquez-Ortiz
Senator Udall's Office



Web Presentation of Final Report Award

Team: NMSA134, New Mexico School for the Arts

Team Members: Occam Kelly Graves

Sponsor: Jennifer Black

Project: *The Economic Effects of Implementing Environmental Full Cost Accounting*





Congressman Ben Ray Lujan's Middle School Award

Presented by:

Patrick Duran

Field Officer for Lujan's Office



Congressman Ben Ray Lujan's Middle School Award

Team: GADMS113, Gadsden Middle School

Team Members: Carlos Mendoza, Christian Martinez,
Denisse Delgado, Abel Romero, Victor Castillo

Sponsor: Danielle McFarland

Project: *Tuberculosis Outbreak*



Teacher Appreciation Award



Presented by
Dr. Veronica Garcia
Santa Fe Public Schools Superintendent

Teacher Appreciation Award

Recipient :

Jenifer Hooten

Southwest Ecosystems Award

Presented by:



Christopher N. Ruszkowski
Public Education Secretary



Southwest Ecosystems Award

Team: MCS69, McCurdy Charter School

Team Members: Isaiah Marquez Ramses Martinez
Christopher Maestas Jesus “Chuy” Gonzales Michael Trujillo

Sponsor: Melissa Berryhill and Roger Duroux

Project: *Bug Infestation in Carson National Forest*



Public Education Department



- **Elaine Perea, Director, College and Career Readiness Bureau**
- **Lida Alikhani, Public Information Officer**
- **Yanira Vazquez, Director, Math and Science Bureau**
- **Rebekka Burt, Director of Community Engagement**
- **Ashley Eden, Deputy Chief of Staff**

All Teacher Appreciation



NMTIE Research Award

Presented by:

Shaun Cooper
NMTIE

Ann Thompson
NMTIE Board Executive Member
Expo Judge



NMTIE Research Award

Team: THS159, Taos High School

Team Members: Sierra Ferguson, Delaney Galligan

Sponsor: Tracy Galligan

Project: *MitoSensor*



NMTIE Teamwork Award

Presented by:

Shaun Cooper
NMTIE

Ann Thompson
NMTIE Board Executive Member
Expo Judge



NMTIE Teamwork Award

Team: JMS62, Jackson Middle School

Team Members: Kiara Onomoto, Ayvree Urrea, Delaney Montoya

Sponsor: Karen Glennon

Mentor: Nick Bennett

Project: *Traffic Flow at the Albuquerque International Balloon Fiesta*



Sandia Creativity and Innovation Award



Presented by:

Matthew Curry



Sandia Creativity and Innovation Award

Team: LAHS71, Los Alamos High School

Team Member: Elijah Pelofske

Sponsor: Alan Didier

Project: *RSA Based Primality Test*

Supercomputing Challenge Technical Poster Award

Presented by:

Bill Blackler

Past President and Treasurer of the Board



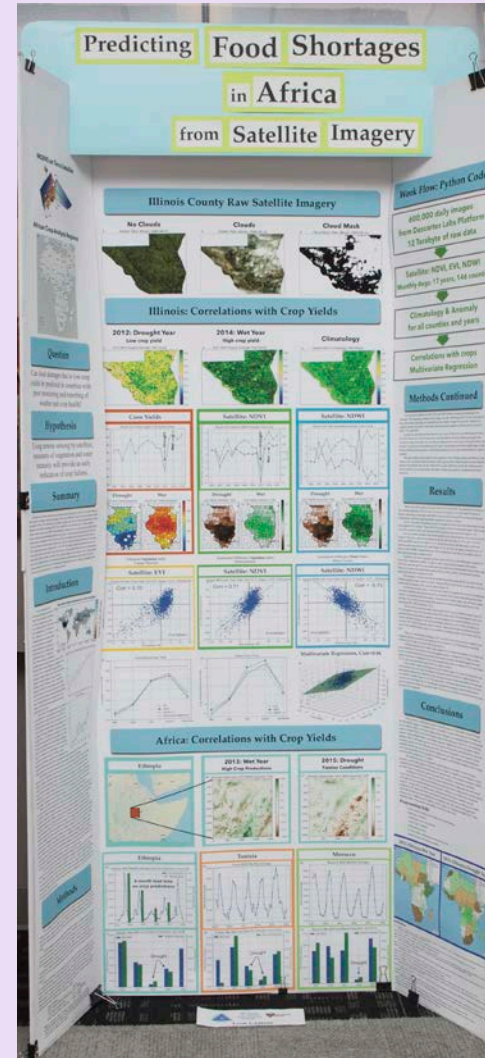
Technical Poster Award

Team: LAHS56, Los Alamos High School

Team Members: Lillian Kay Petersen

Mentors: Daniela Moody, Rick Chartrand

Project: *Predicting Food Shortages in Africa from Satellite*

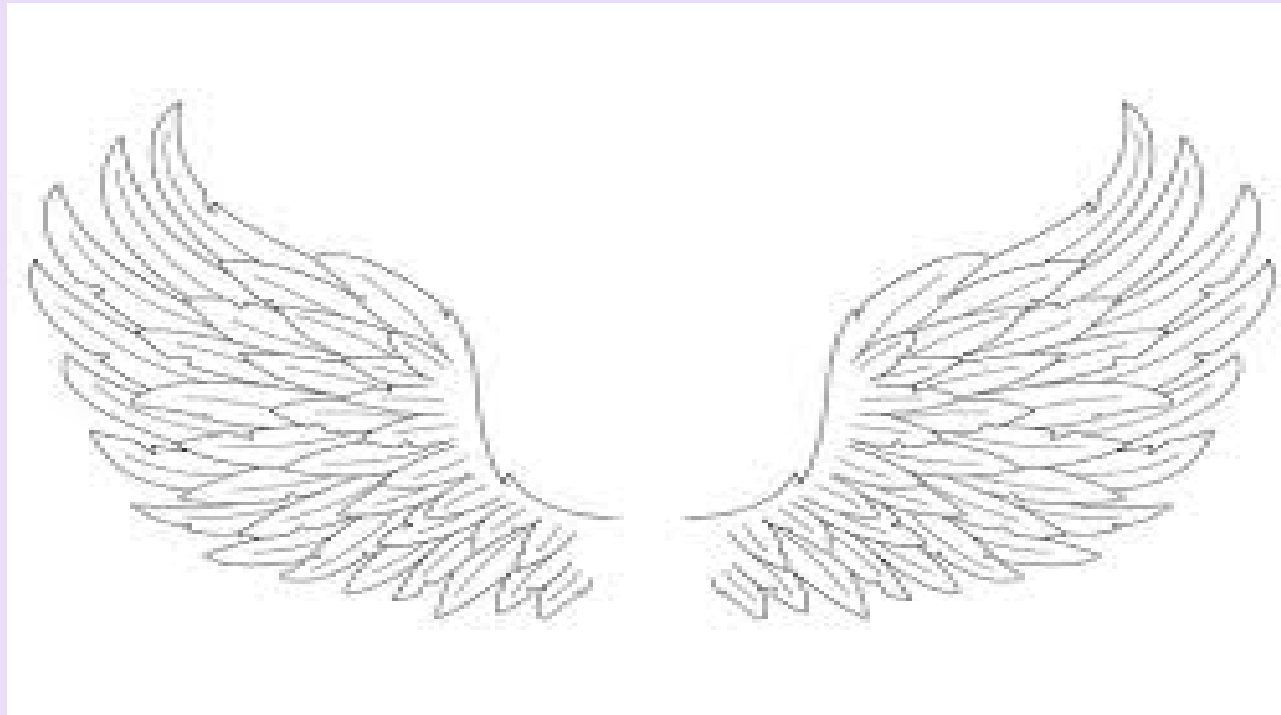


Thank you, Bill Blackler

Presented by

Teri Roberts

Treasurer of the Supercomputing Challenge



Graphical Poster Award

Supercomputing Challenge

Logo for 2018-2019

Presented by:

Shaun Cooper

NMSU



Graphical Poster Award

Team: THS203, Taos High School

Team Members: Joshua Fambro,
Geneva Tafoya, Kyle Totman

Sponsor: Tracy Galligan

Project: *Tune the Fire*



**Supercomputing
Challenge
2018-2019**

The Most Dynamic Presentation Style

Presented by:

Kaley Goatcher

The Most Dynamic Presentation Style

Team: SSMA48, Saturday Science and Math Academy

Members: Naomi Rankin, Matuke Fomukong

Sponsor: Debra Johns

Mentor: Eric Rankin

Project: *Hurricane Effect on Disease Transfer*

New Mexico Network for Women in Science and Engineering



Presented by:
Cheri Burch
NMNWSE



New Mexico Network for Women in Science and Engineering

Team: MELHS34, Melrose High School

Team members: Madison Garrett, Evelyn Garrett

Sponsor: Alan Daugherty

Project: *Beyond the Shore*



Science Rocks



Presented by:

Cristina Martinez

Sandia National Labs

Science Rocks Award

Team: THS131, Taos High School

Team Members: Cyrus O'Hern, James Ryan Cox, Sawyer Solfest, Skylar Spriggs

Sponsor: Tracy Galligan

Mentors: Andrew Leonard, Nick Bennett

Project: *The Dangers of CTE*



Judges' Special Awards

Presented by:

Mike Trahan and Nick Bennett
Judges



Judges' Special Award:

Living the Project Award

Team: MELHS42, Melrose High School

Team Members: Andrea Martin

Sponsor: Alan Daugherty

Mentor: Alan Daugherty



Judges' Special Award: Following Challenge Process Award

Team: RRCA1, Rio Rancho Cyber Academy

Team Members: Dylan Martinez, Christopher Meyer, Gabe Turner

Sponsor: Harry Henderson

Project: *Ice Ice Power Baby*



Judges' Special Award

Overcoming Obstacles Award

Team: UBMS187, Manzano High School

Team Members: Seth Griffin, Danny Luong, Torrey Luong, Nigone Phommachack, Manoj Subedi, Jerrel White

Sponsor: : Karen Glennon, Sharee Lunsford

Mentor: Kurtis Griess

Project: *Path to Pathology*



Judges' Special Award

Great Start Award

Team: JMS32, Jackson Middle School

Team members: Brendan Kuncel, Quentin Dye

Sponsor: Karen Glennon

Mentor: Patty Meyer



Judges' Special Award Environmental Communication

Team: MDS185, Monte Del Sol Charter School

Team members: Robert Borrego, Lia Fukuda, Stephen Herrera

Sponsor: Rhonda Crespo

Mentor: Susan Gibbs, Paige Prescott

Judges' Special Award

Public Health Communication

Team: ATC50, Academy For Technology and the Classics

Team members: Alex Baten, Ben Thorp, Teddy Gonzales

Sponsor: Jenifer Hooten

Mentor: John Thorp

Project: *Infectivity Model*

Judges' Special Award Best Real Time Demo

Team: LAHS201, Los Alamos High School

Team members: Sam Crooks

Sponsor: Jacob Stinnett

Project: *Implementing an Artificial Neural Network to Recognize Handwritten Digits*

Congratulations to the Careful Readers of Monday Morning Memo - MMM

Presented by:

Karen Glennon

Retired, Volunteer Team Sponsor

- **Kiara Onomoto – Cleveland MS, Albuquerque**
- **Ayvree Urrea – Cottonwood Classical, Albuquerque**
- **Ben Thorp - Academy for Technology & Classics, Santa Fe**
- **Occam Kelly Graves – NM School for the Arts, Santa Fe**
- **Oscar Lopez - Capital High, Santa Fe**



Congratulations to the 2017-2018 NCWIT Aspiration Awardees

Presented by:

Celia Einhorn

Retired, Program Manager for Supercomputing Challenge

- * Jenay Barela, Taos High School**
- * Delaney Galligan, Taos High School**
- * Matuke Fomukong, Saturday Math and Science Academy, ABQ**
- * Naomi Rankin, Saturday Math and Science Academy, ABQ**
- * Jen Marie Phifer, Los Lunas High School**

Jen is a National Honorable Mention for Computing Honorees.

- * Shyla Sharma, The Academy for Technology & Classics, Santa Fe**



Sponsor Recognition

**Let's give a big round of
applause for our sponsors!!**

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



Primary Sponsors:

Los Alamos National Laboratory

Los Alamos National Security, LLC

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- CCL Netlogo, NMTIE, CNM, Eastern New Mexico University,
- MIT Starlogo, New Mexico Highlands University, New Mexico Institute of Mining and Technology,
- New Mexico Public Education Department, New Mexico State University, NMSU-Dona Ana Community College,
- Northern New Mexico College, San Juan College, Santa Fe Community College, University of New Mexico, UNM-CARC



Platinum Partner:

Sandia National Laboratories

Commercial Partners:

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Scholarship Recipients



Presented by:

Teri Roberts, Tim Thomas

Dana Roberson and Matthew Fetrow, AFRL

Scholarship Committee

Scholarship Recipients

Robert Borrego - Monte Del Sol

Rowan Cahill - Santa Fe High School

Matuke Fomukong - Saturday Science Math Acad

Stephen Herrera-Luna – Monte Del Sol

Rowna Kinney – Taos High School

Oscar Lopez-Rivera – Capital High School

Jasmine Marquez – McCurdy Charter

Andrea Martin – Melrose High School

Romona Park – Santa Fe High School



Scholarship Recipients

Mackenzie Perkins – Melrose High School

Jen Marie Phifer – Los Lunas High School

Ryan Romero – Capital High School

Rebecca Rush – Melrose High School

Ruby Salazar – McCurdy Charter

Luke Shankin – Santa Fe High School

Benjamin Thorp – Academy For Tech and Classics

Hannah Wofford – Melrose High School

And now, the moment we have ALL
been waiting for

Third Place

Team: LAHS71, Los Alamos High School

Team members: Elijah Pelofske

Sponsor: Alan Didier

Project: *RSA Based Primality Test*



Second Place

Team: LAHS56, Los Alamos High School

Team Members: Lillian Kay Petersen

Mentors: Daniela Moody, Rick Chartrand

Project: *Predicting Food Shortages in Africa from Satellite*



First Place

Team: LLHS47, Los Lunas High School

Team Members: Jen Marie Phifer, Forest Good

Sponsor: Ann Loveless

Mentor: Nick Bennett, Creighton Edington,
Annette Hatch, James Taylor



First Place Winner's Project Overview



Burritos will be served in the Kitchen!

Your choice of:

Bacon / Green

Ham / Red

Sausage / Red

Sausage / Green

Veggie / Green

Ham / No Chile

David Kratzer, Consult

Be like a boomerang and
come back next year!

OR

Volunteer to help when you graduate.

