



2014 ANNUAL REPORT



WELCOME



NM MESA Oil and Gas Education and Career Fair
(May 29-30, 2013 - Artesia, NM)

HISTORY

New Mexico Mathematics, Engineering, Science Achievement (NM MESA) Inc., is a year-round, multi-year program working directly with organizations, industries, school districts, colleges and universities to:

- Improve student performance in Science, Technology, Engineering and Math (STEM)
- Increase NM college enrollment in STEM disciplines
- Provide hands-on STEM related enrichment activities and competitions
- Empower and motivate NM's diverse (culture, gender, ethnic, economic) youth population

In 1981, representatives from the University of New Mexico, industry and state and federal government met to discuss adapting the highly successful California MESA model for use in New Mexico. The NM MESA Advisory Council was formed and in 1982-83, with funding from Hewlett Packard, the NM MESA program began with 150 ninth grade students from six Albuquerque area high schools, including Bernalillo High School. The vision at that time was 'a precollege program ... that works!' Since its inception, NM MESA has continued to grow, adding schools and increasing student participation throughout the state. From the first 150 students in six schools, NM MESA now counts 105 middle and high schools and 4209 students as participants. NM MESA has expanded the initial vision to better describe what we foresee for the future: 'Diverse, well-educated, professionals who reach their full potential as leaders through Math, Engineering, Science and technology Achievement.'

FROM THE

EXECUTIVE DIRECTOR

Ya'at'eeh (Hello)

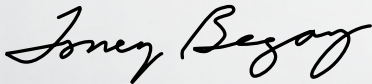
In 2014, New Mexico Mathematics, Engineering, Science Achievement (NM MESA) reached 31 years as a non-profit organization making it the oldest pre- college STEM enrichment education program in New Mexico. Every year we strive to provide our state and universities with the brightest and well prepared students that New Mexico has to offer!

This past year we have finalized NM MESA's first STEM-E Curriculum. We will to provide our 9th -12th grade students and teachers with an interdisciplinary science and engineering curriculum rather than traditional stand only "biology- physical science-earth science" curriculum. The NM MESA STEM-E Curriculum cross-references the New Mexico State Science Standards, Next Generation Science Standards, and the Common Core State Standards. Our directed goal is to help students make the connection between math, technology, engineering, and the basic sciences.

This past year the NM MESA staff worked hard in reviewing the NM MESA Incentive Award. As of 2014-2015 school period, we will be implementing the Loyalty Award, which is replacing the Incentive Award. The Loyalty Award provides the MESA seniors with the ability to earn \$1000 for their participation and academic achievements from 6th to 12th grade. Our goals for the Loyalty Award are to provide more students with the ability to earn more money for college.

I am confident that the positive changes we have implemented and activities we provide such as Oil & Gas Education Fair, Legislative Field Trip, MESA USA Competition, MESA Day Competition, Space Camp and the Senior Incentive Field Trip, will benefit our schools, students, teachers, state, and nation by creating students that will excel in the growing workforce and become better citizens of the future.

I would like to close-out 2013-2014 school year by expressing my gratitude to all of the students, teachers, schools, parents, legislators, corporate partners, universities, volunteers, individual donors, federal congressional delegates and staff in supporting the NM MESA mission: "Empower and motivate New Mexico's culturally diverse students with science, technology, engineering, and math (STEM) enrichment."



Toney Begay
Executive Director, NM MESA, Inc.

A WORD FROM THE

PRESIDENT OF NEW MEXICO TECH

I am very pleased to extend my sincere thanks and appreciation to the New Mexico Mathematics, Engineering, Science Achievement (MESA) program, for your contributions toward providing opportunities to our state's most promising middle school and high school students. From the board of directors to the staff, MESA stands as a vanguard in educational enrichment.

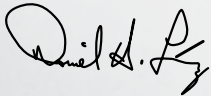
New Mexico Tech is proud of its continuing partnership with MESA as we both work to ensure that future generations of New Mexicans are prepared for leadership roles in high-tech careers. In doing so, we encourage a strong academic foundation in the critical areas of mathematics, science and engineering. The global workforce is showing a lack of new graduates who are capable and qualified in technical areas. We hope that MESA and New Mexico Tech can continue to educate the next generation of scientists and engineers to fill this growing gap.

Earlier this year, MESA teams from New Mexico qualified for the national competition, proving both that New Mexico students are among the tops in the nation and that MESA fosters innovative thinking. The Alamogordo High School team and the Red Mountain Middle School team from Deming carried the Zia flag to Portland, Oregon, for the national event.

We are especially proud of our affiliation with MESA because our state needs more scientists and engineers to meet the technological needs of the modern age. New Mexico can only continue to be a leader in innovation if we educate our youngsters in these fields. MESA has provided our state universities and colleges with some of the brightest students New Mexico has to offer. The seeds planted by MESA have propelled thousands of underserved students into productive careers and personal enrichment.

Once again, I commend the Mathematics, Engineering, Science Achievement program for standing as a beacon of achievement in the vital educational areas.

Sincerely,

A handwritten signature in black ink, appearing to read "Daniel H. Lopez". The signature is fluid and cursive, with a large initial "D" and "L".

Daniel H. López, Ph.D.
President

WHO WE ARE

NM MESA Mission

Empower and motivate New Mexico's culturally diverse students with science, technology, engineering, and math (STEM) enrichment.

NM MESA Vision

Diverse, well educated, professionals who reach their full potential as leaders through Math, Engineering, Science, and technology Achievement.

NM MESA Activities

NM MESA provides the following educational outreach and activities:

- Tutoring/study skills
- Advanced studies
- College and career guidance
- Field trips, speakers and workshops
- Academic STEM related competitions
- Leadership development
- Summer programs
- Scholarship incentives
- Teacher professional development
- Parent support
- Community service
- Business collaboration/outreach
- Research Conferences



NM MESA REGIONS



WEST

Navajo Prep
Bloomfield
Gallup
Grants

SOUTHWEST

Cobre
Deming
Las Cruces
Gadsden

NORTH CENTRAL

Mesa Vista
Española
Pojoaque
Santa Fe
Pecos
Bernalillo

CENTRAL OUTER

Albuquerque
Magdalena
Socorro

CENTRAL INNER

Albuquerque

NORTH

Springer
Peñasco
Mora
W. Las Vegas
Las Vegas
Santa Rosa

SOUTHEAST

Portales
Ruidoso
Roswell
Alamogordo
Artesia
Carlsbad



NM MESA SCHOOL'S: TOTAL=105



Central Inner (16)

- Albuquerque HS
- Albuquerque Institute for Mathematics and Science
- Amy Biehl HS
- Cleveland MS
- Del Norte HS
- East Mountain HS
- Highland HS
- Jefferson MS
- Kennedy MS
- Manzano HS
- McKinley MS
- nexGen Academy
- South Valley Academy
- Taft MS
- Valley HS
- Van Buren MS

Central Outer (17)

- Atrisco Heritage Academy HS
- Belen HS
- Belen MS
- Cibola HS
- Ernie Pyle MS
- Jimmy Carter MS
- John Adams MS
- Magdalena HS
- Polk MS
- Rio Grande HS
- Sarracino MS
- Socorro HS
- Taylor MS
- Tony Hillerman MS
- Truman MS
- Volcano Vista HS
- West Mesa HS

North Central (12)

- Bernalillo HS
- Bernalillo MS
- Capshaw MS
- Carlos F. Vigil MS
- Cochiti MS
- Espanola Valley HS
- Mesa Vista HS
- Mesa Vista MS
- Pecos HS
- Pojoaque Valley HS
- Santo Domingo MS
- Tierra Encantada



Northern (13)

- Anton Chico MS
- Memorial MS
- Mora HS
- Mora MS
- Penasco HS
- Penasco MS
- Robertson HS
- Santa Rosa HS
- Santa Rosa MS
- Springer HS
- West Las Vegas HS
- West Las Vegas MS
- West Las Vegas Valley MS

Southeastern (15)

- Alamogordo HS
- Berrendo MS
- Carlsbad 6th Grade Academy
- Carlsbad HS
- Carlsbad Intermediate School
- Goddard HS
- Holloman MS
- Mt. View (Alamogordo) MS
- Mt. View (Roswell) MS
- Portales HS
- Portales Junior High
- Roswell HS
- Ruidoso HS
- Ruidoso MS
- Sierra (Roswell) MS

Southwestern (15)

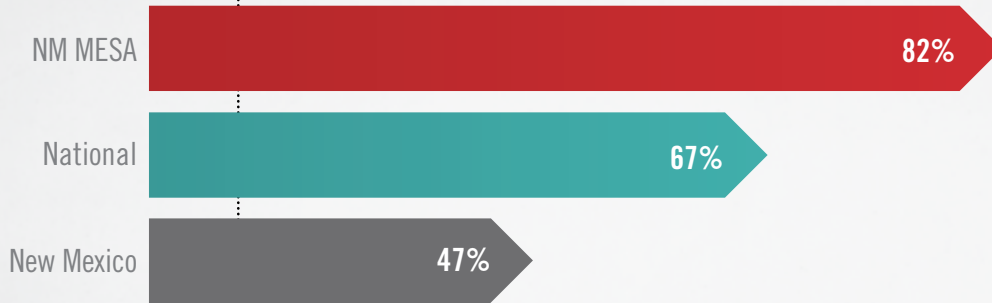
- CC Snell MS
- Centennial HS
- Chaparral (Gadsden) MS
- Chaparral HS
- Cobre HS
- Deming HS
- Deming Intermediate
- Gadsden HS
- Gadsden MS
- Las Cruces HS
- Lynn MS
- Mayfield HS
- Ocate HS
- Red Mountain MS
- Vista MS

Western (15)

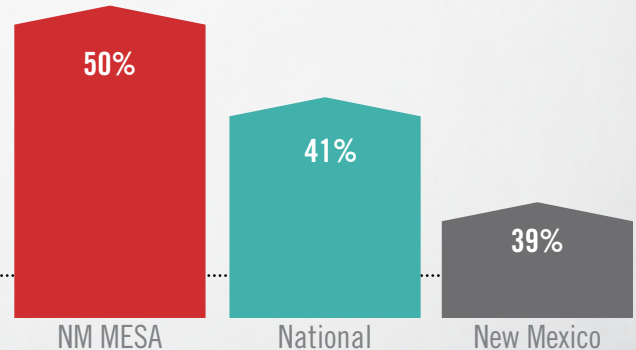
- Crownpoint HS
- Crownpoint MS
- Gallup HS
- Grants HS
- John F. Kennedy MS
- Laguna Acoma HS
- Laguna Acoma MS
- Mesa Alta HS
- Miyamura HS
- Navajo Preparatory High School
- Thoreau HS
- Thoreau MS
- Tohatchi HS
- Tohatchi MS

GRADUATE COMPARISON

Attending College

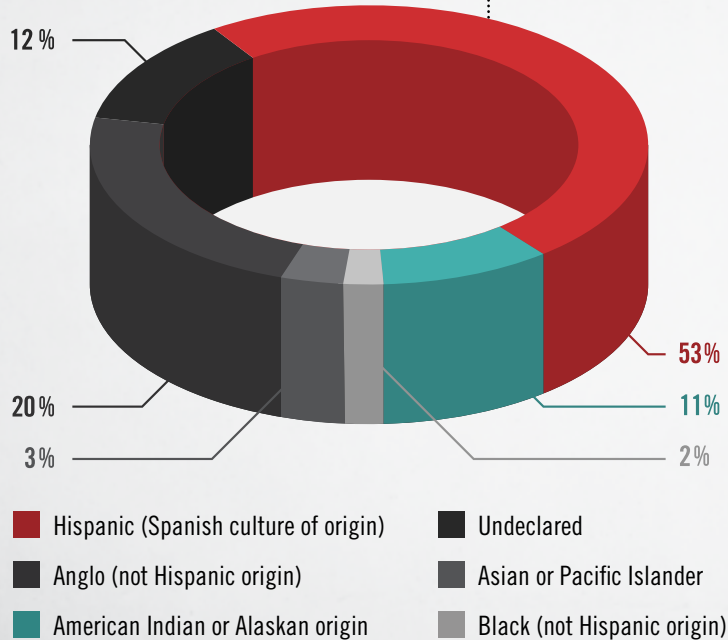


Earning Bachelor's Degree or Higher

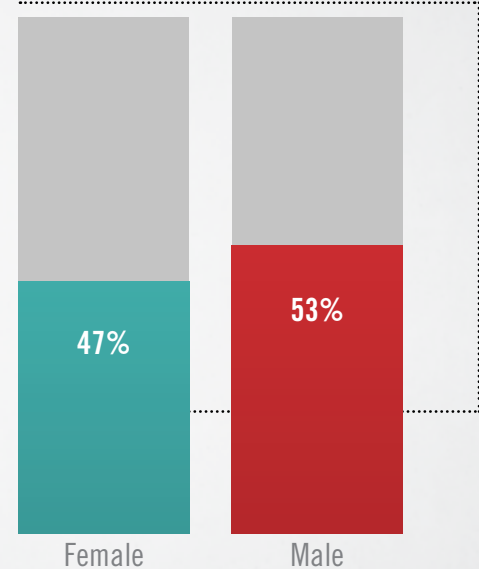


STUDENT DIVERSITY

Overall Student Ethnicity

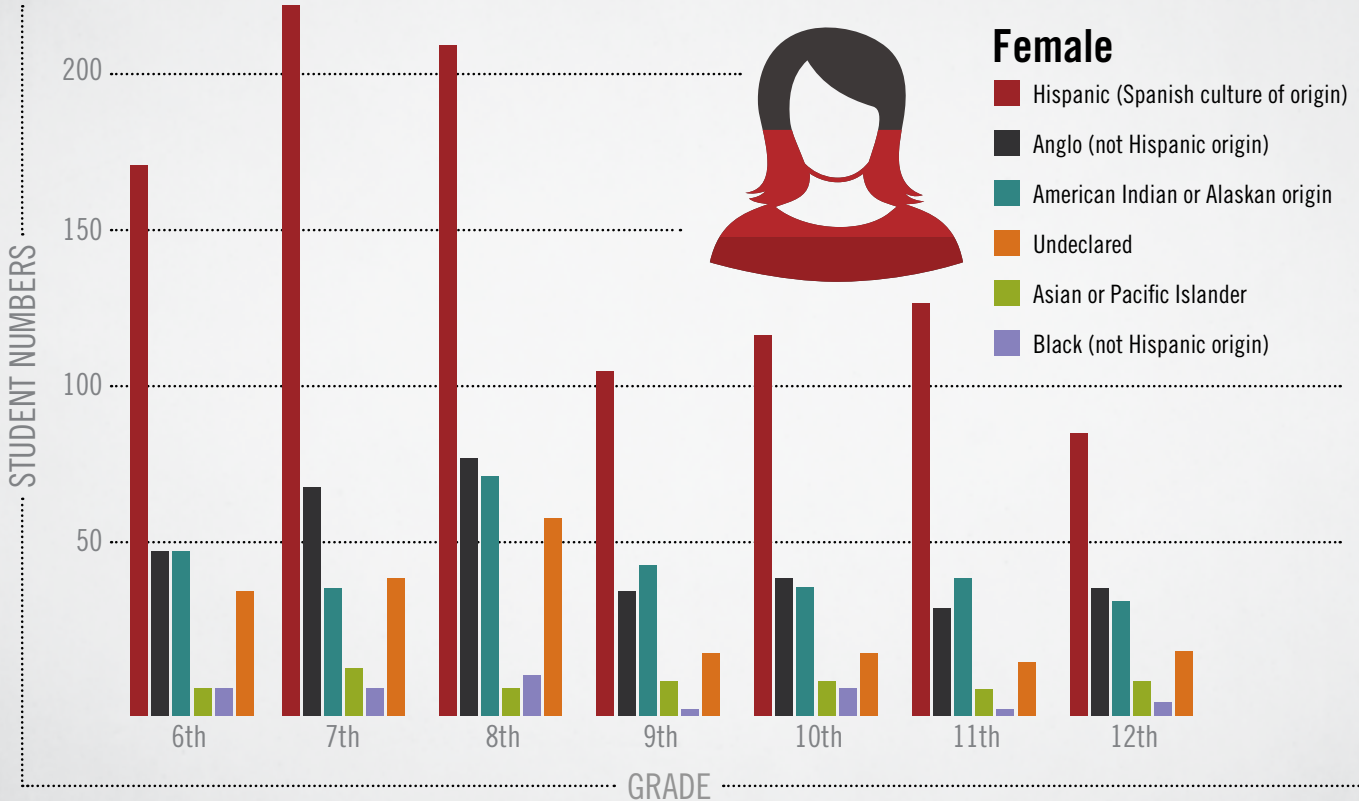


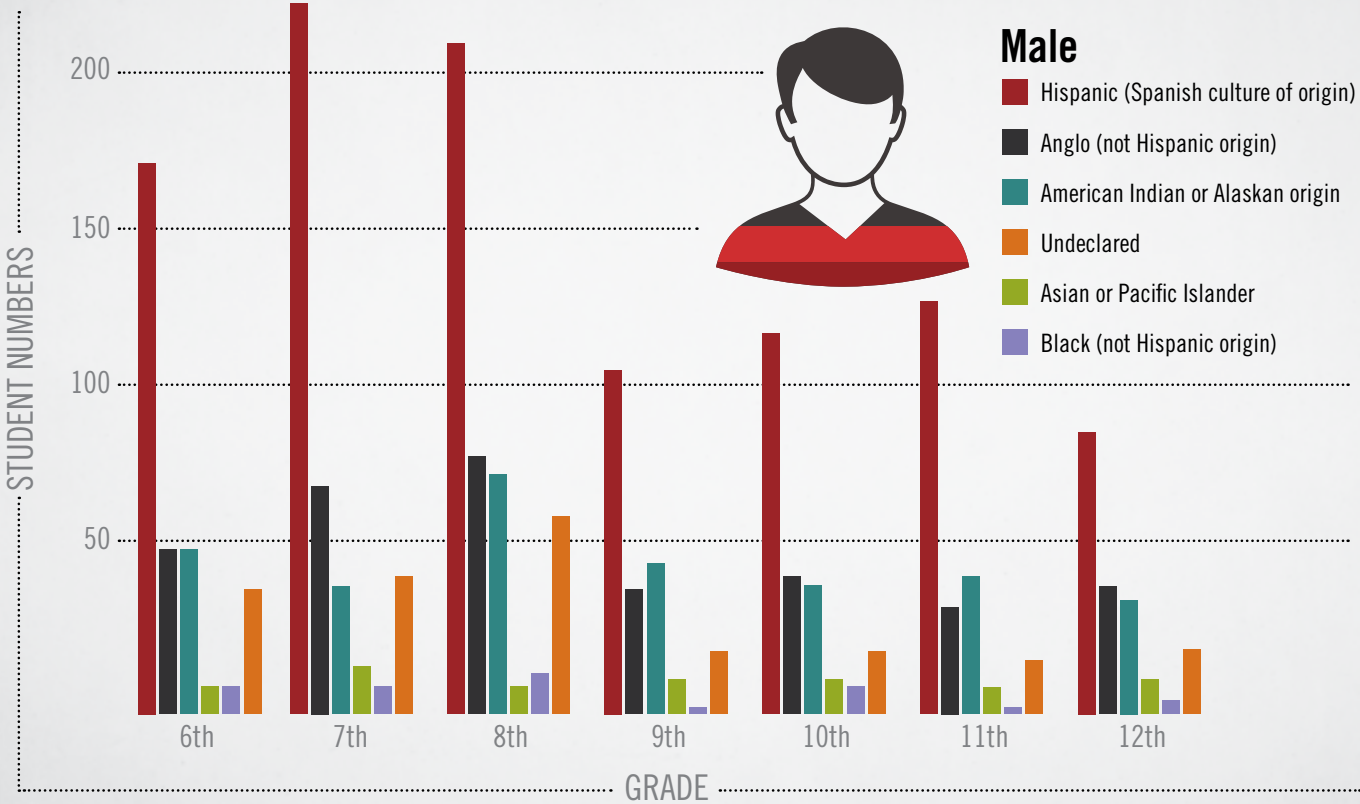
Overall Student Gender



STUDENT PARTICIPATION BY

GRADE LEVEL AND ETHNICITY

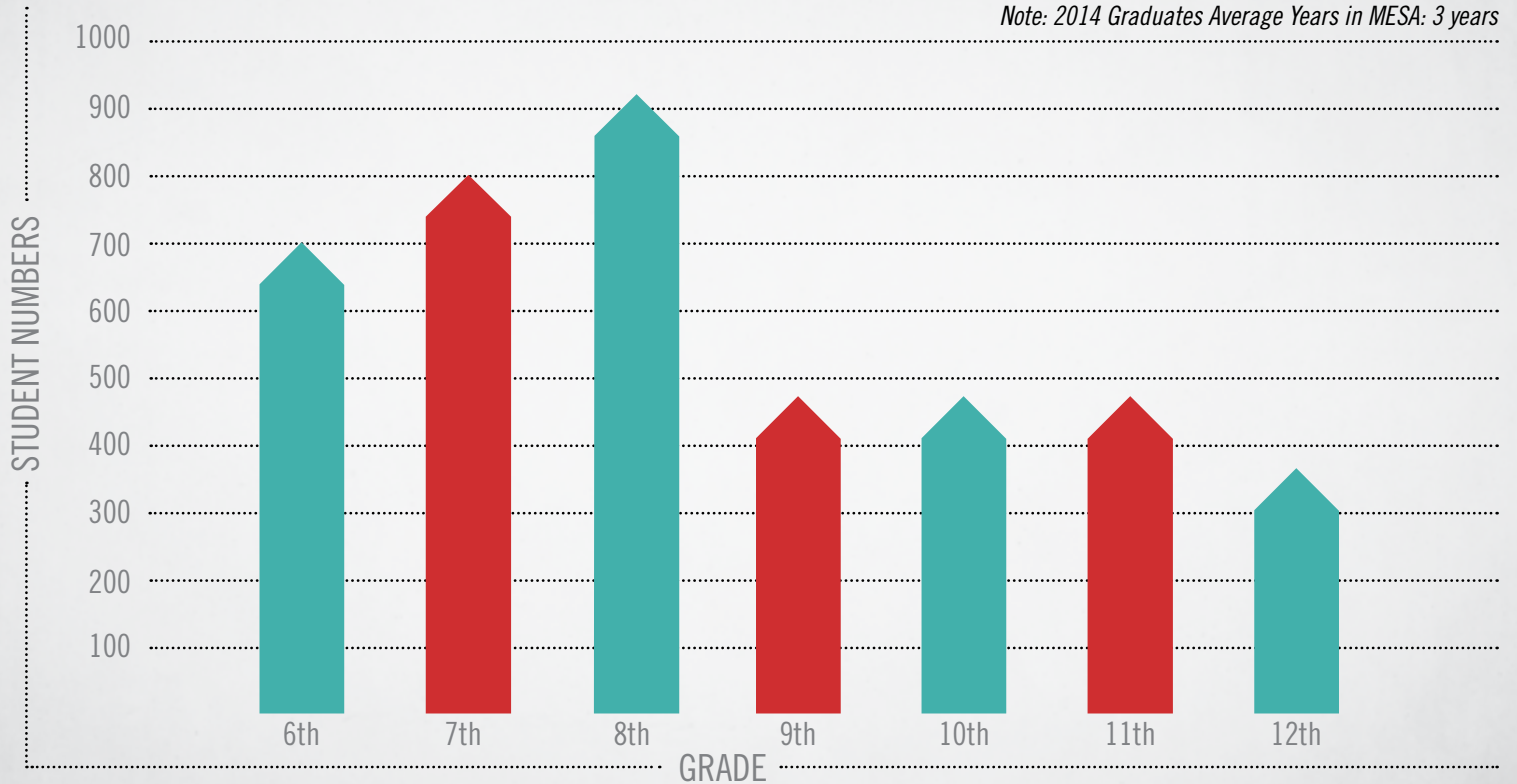




STUDENT

PARTICIPATION BY GRADE

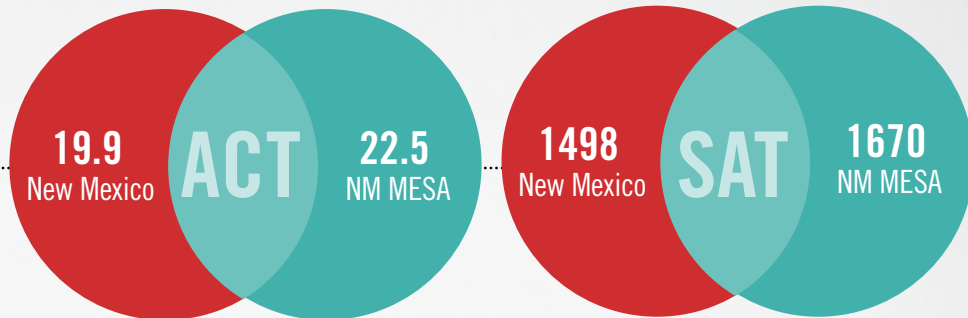
Note: 2014 Graduates Average Years in MESA: 3 years



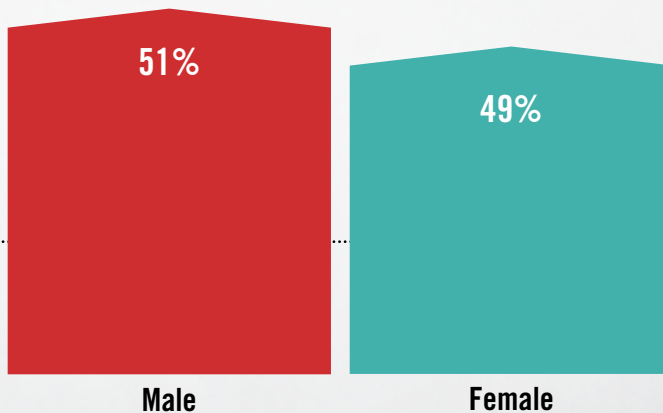
SENIOR ACADEMIC STATISTICS

AVERAGE TEST SCORES

NM MESA Average Cumulative G.P.A 3.54

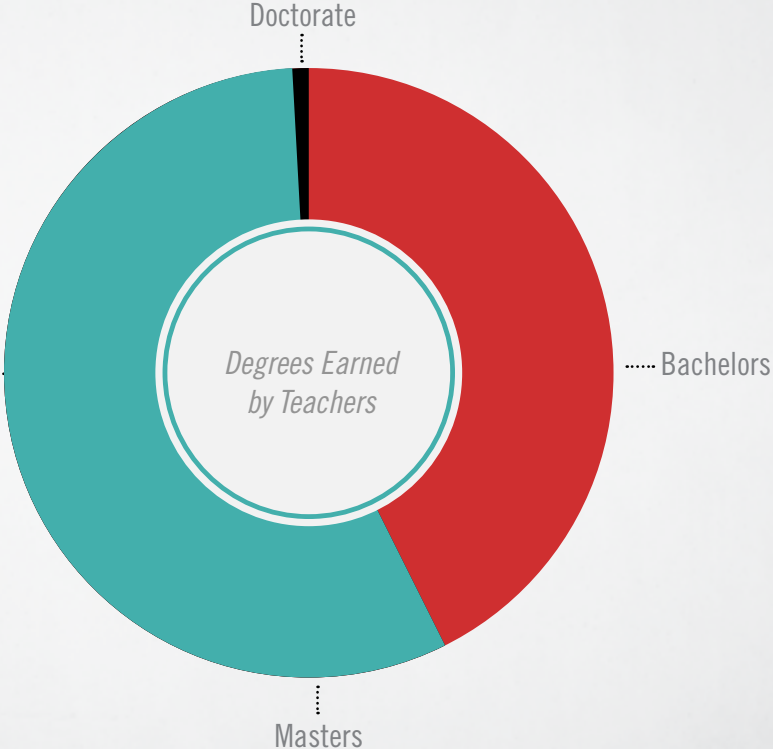


SENIOR GENDER



TEACHER STATISTICS

**TEACHERS' AVERAGE
YEARS IN MESA: 6 YEARS**



STATEMENT of

FUNCTIONAL EXPENSES

	PROGRAM SERVICES	G&A	FUNDRAISING	TOTAL
Salaries	447,599	146,566	12,380	606,544
Taxes & Benefits	83,017	29,375	1,815	114,207
Field Trips	163,110			163,110
Professional/Consultant	24,488	61,085	4,940	90,513
Travel	53,422	40,584	558	94,565
Incentive Awards	36,249			36,249
Training & Development	1,752	6,908		8,660
Program/Event Services	7,726	2,248		9,973
Supplies	43,701	3,906		47,606
Occupancy	5,213	5,176		10,389
Meetings & Conferences	23,691	152		23,843
Equipment Expenses		2,202		2,202
Telephone	12,762	9,568		22,329
School Activities	24,147			24,147
Other	84,614	29,636	211	114,461
TOTAL EXPENSES	1,011,490	337,406	19,904	1,368,799

2014 BOARD

2013-2014 NM MESA Officers

Kurt Steinhaus, Ed.D.
NM MESA Board President
Los Alamos National Laboratory

Andrew Salazar
NM MESA Board Vice President
President Elect
Technology Ventures Corporation

Elena Garcia
NM MESA Board Treasurer
Wells Fargo Bank

Amy Tapia
NM MESA Board Secretary
Sandia National Laboratories

NM MESA Members

Elizabeth Ratzlaff
New Mexico Highlands University

John P. (Jack) Jekowski
Innovative Technology Partnerships

Mike Kloeppe
NM Institute of Mining and Technology

Rick Shumard
Electric Power Research Institute (EPRI)

Joseph Trimble
Wells Fargo Bank

Jon Hawkins
PNM

Frank Maestas
Applied Research Associates

Tracie O'Geary
Northrop Grumman Corporation

Alternate Members

Melissa Jaramillo-Fleming
NM Institute of Mining and Technology

MESA Emeritus Members

Dora Alcalá
Jim Tarro
Herb Fernandez
Ted Sahd

Advisory Representatives

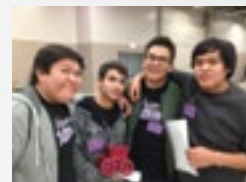
Martha Peña
Robertson High School Advisor

Debra Lett
Valley High School Advisor

Congressional Advisory Committee

Sara Cobb
Constituent Liaison
Office of Senator Tom Udall

Patrick Duran
Constituent Liaison
Office of Congressman Ben Ray Lujan







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