

2009 New Mexico Science and Engineering Fair Winners

Kendrick, Alexander K

Exhibit Title: The Underground Radio II

Division: SR **Category:** Engineering

School: Los Alamos High School

Awards:

First Place SR Engineering

New Mexico Science and Engineering Fair

Senior Division Grand Award: Highest award given by New Mexico Science and Engineering Fair to an exhibitor in the Senior Division in the field of Physical Sciences. All-expense paid trip to the International Science and Engineering Fair in Reno, Nevada, where Alex is eligible to compete as an exhibitor

Certificate: ASM Materials Education Foundation

To recognize the winner of the best materials engineering project at the fair

Senior Division - \$100 savings bond

Klipsch School of Electrical and Computer Engineering (NMSU)

Erickson, Holly C

Exhibit Title: A Case in Pointe

Division: JR **Category:** Engineering

School: Los Alamos Middle School

Awards:

First Place JR Engineering New Mexico Science and Engineering Fair

Junior Division Grand Awards

Highest award given by New Mexico Science and Engineering Fair to an exhibitor in the Junior Division in the field of Physical Sciences -- a T1 84 Graphic Calculator; a \$100 cash award; and subscription to Science News

Junior Division, First Place

Research Paper Competition, sponsored by the New Mexico Academy of Science, INTEL, Sandia National Labs/Lockheed Martin

Certificate and pin

National Society of Professional Engineers

Given to a project that demonstrates awareness of the importance of controlling and preventing corrosion

Tote Bag and \$50 award

New Mexico Network for Women in Science and Engineering

For young women

Hehlen, Alexandra B

Exhibit Title: Clear As Mud?

Division: JR **Category:** Earth & Planetary Sciences

School: Los Alamos Middle School

Awards

First Place JR Earth & Planetary Sciences New Mexico Science and Engineering Fair

Ahrens, Daniel J

Exhibit Title: Does Noise Pollution Bug Insects?

Division: JR **Category:** Environmental Sciences

School: Los Alamos Middle School

Awards

First Place JR Environmental Sciences

New Mexico Science and Engineering Fair

Junior Division Grand Awards

Highest award given by New Mexico Science and Engineering Fair to an exhibitor in the Junior Division in the field of Life Sciences, a T1 84 Graphing Calculator; a \$100 cash award; and a subscription to Science News.

Junior Division - First Place - \$100 cash award

New Mexico Environmental Health Association

For an outstanding project demonstrating a clear environmental health application

Wang, Alexandr Y

Exhibit Title: The Heart of the Fractal

Division: JR **Category:** Mathematical Sciences

School: Piñon Elementary School

Awards

First Place JR Mathematical Sciences

New Mexico Science and Engineering Fair

Wurden, Caroline J

Exhibit Title: Determining the Orbital Elements of Minor Planet 23265

Division: SR **Category:** Physics & Astronomy

School: Los Alamos High School

Awards

Second Place SR Physics & Astronomy

New Mexico Science and Engineering Fair

\$200 award

Intel Excellence in Computer Science Award

Tote Bag and \$50 award

New Mexico Network for Women in Science and Engineering

For young women

\$100 cash award and certificate

New Mexico Optics Industry Association

Book award for use at New Mexico Tech

New Mexico Tech

Awarded to all graduating seniors entered in State Science Fair

Silver medallion, \$100 savings bond, and certificate
United States Army

Certificate

United States Metric Association

This award is given to the project that involves a significant amount of quantitative measurement using SI methods and systems.

Senior Division -- \$75 award and medallion

United States Navy and United States Marine Corps - Naval Science Awards

Erickson, Ryan C

Exhibit Title: Shake, Rattle and Roll: A Three-Axis Sensor Based on Diamagnetics

Division: SR **Category:** Engineering

School: Los Alamos High School

Awards

Third Place SR Engineering

New Mexico Science and Engineering Fair

Senior Division, First Place

Research Paper Competition, sponsored by the New Mexico Academy of Science, INTEL, Sandia National Labs/Lockheed Martin

Senior Division -- \$130 cash award, subscription to New Mexico Geology, and publication of the student's abstract in New Mexico Geology

New Mexico Bureau of Geology

For a project that demonstrates excellence in geosciences

Majewska, Paulina V

Exhibit Title: Evaporation of Liquids

Division: JR **Category:** Chemistry

School: Los Alamos Middle School

Awards

Second Place JR Chemistry

New Mexico Science and Engineering Fair

\$150 cash award

American Chemical Society, Central New Mexico Section

Awarded to the project that best demonstrates a thorough and logical approach to the investigation and observation of a chemical phenomena or property

Enciso, Andrea

Exhibit Title: On the Number of Unique Latin and Sudoku Squares

Division: JR **Category:** Mathematical Sciences

School: Los Alamos Middle School

Awards

Second Place JR Mathematical Sciences

New Mexico Science and Engineering Fair

Clements, Ethan R

Exhibit Title: How Does Cell Phone Radiation Affect Planaria Growth?

Division: JR **Category:** Zoology

School: Los Alamos Middle School

Awards

Third Place JR Zoology

New Mexico Science and Engineering Fair

Ben-Naim, Daniel S

Exhibit Title: A Lotta Ricotta

Division: JR **Category:** Microbiology

School: Piñon Elementary School

Awards

Third Place JR Microbiology

New Mexico Science and Engineering Fair

Poston, Jake I

Exhibit Title: Get With the Flow Man

Division: SR **Category:** Computer Science

School: Los Alamos High School

Awards

Third Place SR Computer Science

New Mexico Science and Engineering Fair

Certificate and letter to the student's teacher

Mu Alpha Theta, for the most challenging, thorough, and creative investigation of a problem involving modern mathematics

Clements, Nathan R

Exhibit Title: Fishing Pressure on Trout Populations in Northern New Mexico Streams

Division: SR **Category:** Environmental Sciences

School: Los Alamos High School

Awards

Honorable Mention SR Environmental Sciences

New Mexico Science and Engineering Fair

Honorable Mention

New Mexico Water Resources Research Institute

Grindstaff, Sally B and Kober, Erin

Exhibit Title: Memory Check

Division: JR **Category:** Team Projects

School: Barranca Mesa Elementary School

Awards

Honorable Mention JR Team Projects

New Mexico Science and Engineering Fair

Andrews, Nasim S

Exhibit Title: Optimization of Windmill Performance

Division: JR **Category:** Engineering

School: Los Alamos Middle School

Awards

Honorable Mention JR Engineering

New Mexico Science and Engineering Fair

Keilers, Chloe M

Exhibit Title: Moon Project

Division: JR **Category:** Earth & Planetary Sciences

School: Mountain Elementary School

Awards

Honorable Mention JR Earth & Planetary Sciences

New Mexico Science and Engineering Fair

Abeyta, Joe P

Exhibit Title: Watershed Watch

Division: SR **Category:** Environmental Sciences

School: Los Alamos High School

Awards

Certificate

American Meteorological Society

For the best meteorological exhibit