

# Manos Application

DEADLINE FOR RECEIPT OF APPLICATION: FEBRUARY 2, 2004.

PLEASE RETURN ALL ENCLOSED FORMS WITH THIS APPLICATION TO THE STUDENTS MANOS REPRESENTATIVE.  
6<sup>th</sup> Graders Will Be Required to Choose Between "Fun with Math and Money" and "Computers", please indicate your preference: \_\_\_\_\_ Math and Money \_\_\_\_\_ Computers  
7<sup>th</sup> and 8<sup>th</sup> Graders please number in order of preference (from 1 to 5) the class you wish to attend. If your first preference is filled, you will be assigned to your next available preference.

\_\_\_\_\_ Electronics \_\_\_\_\_ Chemistry \_\_\_\_\_ Physics \_\_\_\_\_ Fun with Math and Money \_\_\_\_\_ Computers  
Student's Full Name: \_\_\_\_\_ Date of Birth MM/DD/YY: \_\_\_\_\_

Parent/Guardian Name: \_\_\_\_\_

Student's Mailing address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Phone: \_\_\_\_\_

School: \_\_\_\_\_ Grade Level: \_\_\_\_\_

Past Participant? (check one) Yes \_\_\_\_\_ No \_\_\_\_\_ Which Class? \_\_\_\_\_

The following optional information does not affect participation in the program:

Check One: Male \_\_\_\_\_ Female \_\_\_\_\_

Check One: Hispanic \_\_\_\_\_ American Indian \_\_\_\_\_ Asian \_\_\_\_\_ Black \_\_\_\_\_ Other \_\_\_\_\_

## Where is the program held?

Participating Schools: John Adams MS,  
Truman MS, Jimmy Carter MS

Location: West Mesa High School-Science Bldg.  
6701 Fortuna NW

Dates: Monday/Wednesday  
February 23-March 17, 2004

MANDATORY PARENT ORIENTATION  
SCHEDULED FOR FEBRUARY 23, 2004

TIME: 6:00 P.M.

LOCATION: WEST MESA HS AUDITORIUM

Participating Schools: Ernie Pyle MS,  
Pajarito Academy, Polk MS, Harrison MS,  
Barcelona Academy

Location: Rio Grande High School-Science Bldg.  
2300 Arenal Rd SW

Dates: Tuesday/Thursday  
February 24-March 18, 2004

MANDATORY PARENT ORIENTATION  
SCHEDULED FOR FEBRUARY 24, 2004

TIME: 6:00 P.M.

LOCATION: RIO GRANDE HS AUDITORIUM

Times:

4 PM to 5 PM

5 PM to 5:10 PM - SNACK BREAK IN CAFETERIA

5:10 PM to 6PM

## Transportation:

Students are transported via bus from their respective Middle School free of charge, and MUST be picked up by class dismissal promptly At 6:00 p.m.

## Manos Contact

Brenda Barajas-Romero - Manos Coordinator  
MS-0132 - PO Box 5800  
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Manos Science & Engineering Program Sponsored by  
Sandia National Laboratories  
Diversity, EEO & AA Department

Sandia is a Multiprogram Laboratory operated by Sandia Corporation, a Lockheed Martin Company, for the United States Department of Energy under contract DE-AC04-94AL85000.



Sandia National Laboratories

# MANOS

## Manos Science & Engineering Program

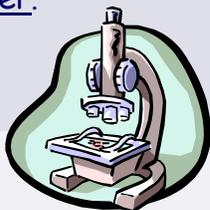
February 23 -  
March 18  
2004



Learning Hands On For The Future

## What is Manos?

Manos Hands-on Science and Engineering Program is an educational supplement targeting Hispanic middle school students. The Program is sponsored by Sandia National Laboratories' Hispanic Leadership Outreach Committee, Diversity, EEO & AA Department, Albuquerque Public Schools, the University of New Mexico and the New Mexico Medical Association. This program is designed to introduce science, engineering, and medical concepts to middle school students and spark their interest in pursuing careers in science and engineering. This program is offered each Spring for students in grades 6th - 8th. Students and parents are encouraged to participate and volunteer.



## Workshops:

Manos provides students the opportunity for early high-tech business involvement with local communities. We inspire young minds through engineering and scientific experiences. Our focus is to increase and promote student academic excellence at the precollege level. Manos nurtures "hands-on" science and engineering experiences primarily for Hispanic students. We work to improve students' academic rate of success and personal self-esteem. The Manos Program continues to foster and expand awareness of self-respect for the contributions and achievements of Hispanic inventors and scientists. Through interdisciplinary activities, "Great Minds" and "Creative Thinkers" are excited about their future.

## What is the purpose of the Manos Program?



- Develop awareness and pride in accomplishments of Hispanic professionals and inventors.
- Increase the pool of Hispanic students who pursue engineering and science university degrees.
- Support the development of a scientific and technically trained student-base with hands-on technology experiences.

## What must a student do to participate in the program?

Students must currently be enrolled in grades 6th through 8th. ***Parents must complete, sign, and return all enclosed documents (Student Code of Conduct and Release & Indemnity Agreement) with application. Students may not begin the program without completed forms.*** There is no cost to the student for attending the program. Students who need special assistance should call the Program Coordinator at 845-9589 prior to the commencement of the program.

## What kinds of classes will students take?



- **Physics** - How does a rocket work and fly? Do you think you can build and fly a rocket? Learn the principles of physics by conducting experiments in: force, mass, energy, friction, momentum, fluids, heat, magnetism and optics.
- **Chemistry** - How do they make fireworks different colors? What makes bread rise? Is shampoo really "pH balanced" like the commercials say and are all sunscreens the same? How does chemistry help to investigate a crime scene?
- **Electronics** - What is a component? What is integrated circuitry and how does it work? What makes a computer work? Who is *Ohm* and what is it? How is the flow of electricity controlled?
- **Fun with Math & Money** - Can you guess how many Red M&Ms are in a jar? Do you know what PI is? Do you know how to make your money "grow"? How can you visit 50 cities in as little time as possible? This class uses fun games to help you answer these questions and more.
- **Computer Design** - Students will learn the basics of HTML, the history of the Internet, and how to use internet services while "Surfing the Net." Robotics will also be explored.

Great Minds On The Move!

[http://www.sandia.gov/Human\\_Resources/manos.html](http://www.sandia.gov/Human_Resources/manos.html)