

## **5.12 STATE SCIENCE FAIR**

### **PART A - HISTORY AND ORGANIZATION**

#### **Paragraph 1**

The Science Fair movement in New Mexico was launched by New Mexico Institute of Mining and Technology in 1953 at Socorro, New Mexico. This was just three years after the first National Science Fair was organized by Science Service and held in Philadelphia, Pennsylvania.

#### **Paragraph 2**

Science Service is a nonprofit organization founded in 1921 under an endowment established by Scripps, a newspaper editor and publisher. The trustees of Science Service are nominated by the National Academy of Science, the National Research Council, the American Association for the Advancement of Science, the Scripps Estate and representatives of journalism profession.

#### **Paragraph 3**

Upon organization the New Mexico Science Fair affiliated with the International Science and Engineering Fair (as it is now designated) as operated by Science Service and has maintained such affiliation each year.

#### **Paragraph 4**

In 1960 a Regional Science Fair plan was developed by cooperation between the New Mexico Institute of Mining and Technology and the Albuquerque Journal Publishing Company (original sponsors of the statewide science fair) and the University of New Mexico, New Mexico State University, Highlands University, and the New Mexico Military Institute. Each of the four institutions of higher education agreed to sponsor, in conjunction with local newspapers, service clubs, and other organizations four regional fairs which would affiliate with the International Science Fair and which would send a quota of their highest ranked exhibits to the New Mexico Science and Engineering Fair in Socorro, New Mexico.

#### **Paragraph 5**

Growth and development of the New Mexico Science and Engineering Fair brought about the addition of two regions in the 1980's. This has resulted in a total of sixteen (16) students that travel to the International Science and Engineering Fair each year to compete against their peers from all over the world.

### **PART B - ADMINISTRATION**

#### **Paragraph 1**

Science and Engineering Fairs in New Mexico shall be administered in three classifications.

#### **Section A**

Local fairs, which are the responsibility of the teachers and administrator of the individual school involved. The regional and state fair organizations will furnish guidance judging standards and any other help requested by the local group.

#### **Section B**

Regional fairs, (six (6) in number) administered by a director appointed by the sponsoring institution of higher education and manpower provided by the sponsoring institution.

### **Section C**

A State fair administered by a director appointed by the New Mexico Institute of Mining and Technology which provides services for the State Fair and coordinates the entire Science Fair Program.

### **Paragraph 2**

The New Mexico Science and Engineering Fair committee shall be the executive body for the Science and engineering fair program. The New Mexico Science and Engineering Fair director is the chairman of the state science fair committee and the directors of the six regional fairs (or their authorized representatives) are members.

Additional members are appointed by the New Mexico Institute of Mining and Technology and these members are available for consultation or assistance to any regional or local fair director.

### **Paragraph 3**

Boundaries of the six regions are defined as follows:

#### **Section A**

Region I (Northwest Region); all schools of Bernalillo, Valencia, and Torrance Counties. School districts lying on or near the boundaries but included in Region I are Bernalillo and Cochiti.

#### **Section B**

Region II, (Northeast Region); all schools lying north of US Highways 54, 60 and 66, east of US Highways 285, 66 and State Road 44.

#### **Section C**

Region III, (Southwest Region); all schools lying south of US Highway 60 and west of US Highway 54. School districts lying on or near the boundaries but included in Region III are Tularosa, Quemado, Alamogordo, Cloudcroft.

#### **Section D**

Region IV, (Southeast Region); all schools lying south of US Highway 54 and 66, and east of Highway 54. School districts lying on or near the boundaries but included in Region IV are Carrisozo and Corona.

#### **Section E**

Region V, (Four Corners Region); all schools of McKinley and Cibola Counties. School districts lying on or near the boundaries but included in Region V are Cuba and Magdalena.

#### **Section F**

Region VI, (San Juan Region); all schools of San Juan County School district(s) lying on or near the boundaries but included in Region VI is Dulce.

## **PART C - ELIGIBILITY**

### **Paragraph 1**

Any properly enrolled student in grades K-12 is eligible to compete in a local fair. Local fairs may establish their own requirements for exhibitors.

### **Paragraph 2**

Local fairs certify those exhibits from 7th -12th grades to their regional fair which they feel are justified in continuing the competition. These are certified in two groups; a Junior division comprising the 7th-9th grades and a Senior division comprising the 9th-12th grades. Only individual exhibits are accepted in the senior division.

### **Paragraph 3**

The regional fair certify the outstanding exhibits at each regional fair to the state fair, including two exhibits (one in physical science and one in biological science) and two alternates considered the grand prize winners at the regional fair. The two grand prize winners from each region are eligible to compete at the International Science and Engineering Fair.

### **Paragraph 4**

At the state fair an additional two winners and two alternates are selected to compete at the International Science and Engineering Fair. If a previous winner at a regional fair is selected as a winner at the state fair, the alternate from that region is advanced to the winner position from the region.

## **PART D - OPERATION**

### **Paragraph 1**

The New Mexico Science and Engineering Fair committee provides judges briefings, scoring procedures and acts as referee in my questions of compliance with rules or regulations.

### **Paragraph 2**

The New Mexico Science and Engineering Fair committee assumes the responsibility of organizing and arranging the trip for all New Mexico winners to the International Science and Engineering Fair. Expenses for the trip are provided by the sponsoring groups of the vairious regional and state fair.

### **Paragraph 3**

Exhibits are limited to 122 cm maximum width, 76 cm maximum depth, and a maximum height of 274 cm. These dimensions must include all supports, charts and supplementary materials. Exhibits may be set on the floor as well as on tables.

### **Paragraph 4**

Local, regional and the state fair will follow ISEF rules which may be obtained from any regional or state director.

### **Paragraph 5**

The criteria for judging exhibits are based upon five areas:

1. Creative Ability 4. Skill
2. Scientific Thought 5. Clarity
3. Thoroughness

At least half of the score is based on the first two criteria.

## **PART E - AWARDS**

### **Paragraph 1**

The awards made at any local, regional or state fair are selected by the local group responsible for the fair.

## **5.13 SCIENCE OLYMPIAD**

### **PART A - HISTORY AND ORGANIZATION**

#### **Paragraph 1**

The New Mexico Science Olympiad was initiated by New Mexico Institute of Mining and Technology in 1986 at Socorro, New Mexico. This was two years after the first National Science Olympiad was held.

#### **Paragraph 2**

The National Science Olympiad is an international non-profit organization devoted to improving the quality of science education, increasing student interest in science and providing recognition for outstanding achievement in science education by both teachers and students.

#### **Paragraph 3**

Upon organization, the New Mexico Science Olympiad affiliated with the National Science Olympiad (as it is so designated) and has maintained affiliation each year.

#### **Paragraph 4**

State winners from Division C (grades 9-12) and Division B (grades 7-9) have represented New Mexico since the Olympiad has occurred (Division C only in 1986).

### **PART B - ADMINISTRATION**

#### **Paragraph 1**

The New Mexico Science Olympiad is the state Olympiad competition, hosted by New Mexico Institute of Mining and Technology. Local competitions are, at the discretion of each school district.

#### **Paragraph 2**

Six regional competitions are defined as follows:

**Section A**

**Region I** Northwest Region; all schools of San Juan County and Tohatchi, Navajo, Mexican Springs, Crownpoint.

**Section B**

**Region II** Northcentral Region; all schools east of San Juan County and west of Sangre de Cristo Mountains, north of 1-25 and James Pueblo, including Dulce, Chama, Taos, Los Alamos, Santa Fe, Espanola, Cuba, Jemez.

**Section C**

**Region III** Northeast Region; all schools east of Sangre de Cristo Mountains and north of 1-40, including Santa Rosa, Tatum, Las Vegas, Wagon Mound, Springer, Raton, Clayton, Des Moines, Roy, Mosquero, Logan.

**Section D**

**Region IV** Central Region; all schools of Socorro, Bernalillo, Valencia, Cibola and Torrance Counties and Gallup, Zuni, Ramah, Bernalillo, Cochiti.

**Section E**

**Region V** Southwest Region; all schools of Catron, Sierra, Grant, Hidalgo, Luna, and Dona Ana Counties.

**Section F**

**Region VI** Southeast Region; all schools of Otero, Chavez, Lea, Eddy, Roosevelt, DeFlate, and Lincoln Counties and the city of Vaughn.

**Paragraph 3**

The State Science Olympiad is administered by a Director appointed by New Mexico Institute of Mining and Technology which provides, services for the Olympiad and coordinates the entire Science Olympiad program.

The State Science Olympiad Director is the chairman of the State Science Olympiad committee. Members shall be appointed by the New Mexico Institute of Mining and Technology and these members are available for consultation or assistance to Olympiad coaches and supervisors.

**PART C - ELIGIBILITY**

**Paragraph 1**

Any properly enrolled student in grades 7- 12 is eligible to compete in the Science Olympiad. Local Olympiads may establish their own requirements for participants and determine the team to compete in the state competition.

**Paragraph 2**

Regional Competitions may allow up to two (2) teams per school to compete. Requirements for participants and events to be held are determined by that region.

### **Paragraph 3**

A school may send only one team to the State Science Olympiad. This team consists of no more than fifteen (15) students. A maximum of five (5) ninth grade students (for Division B team) and seven (7) twelfth (12) grade students (for Division C teams) on a team is permitted.

### **Paragraph 4**

The winning teams from each Division we selected to compete at the National Science Olympiad. In the event that a team is unable to attend, the second plus team is given the opportunity to attend.

## **PART D - OPERATION**

### **Paragraph 1**

The New Mexico Science Olympiad committee provides and oversees supervisors, judges, coaches briefings, scoring procedures and acts as referee in any questions of compliance with rules or regulations.

### **Paragraph 2**

The New Mexico Science Olympiad provides approximately twenty-five (25) events in which teams may participate. These events we from the three broad goal areas of science education: science concepts and knowledge, science processes and thinking skills and science application and technology, and more specifically are derived from the science disciplines of biology, earth science, chemistry, physics, computers and technology concepts.

### **Paragraph 3**

A team may participate in one or all of the events within its division.

## **PART E - AWARDS**

### **Paragraph 1**

The awards made at any Local, Regional or State Science Olympiad we selected by the local group responsible for the Olympiad.

### **Paragraph 2**

The New Mexico Science Olympiad will award first through tenth (10) place athletic-style medals and eleventh (11) through fifteen (15) place ribbons for each event at the state finals. In addition, championship trophies will be awarded to the Division B and C school team compiling the most total points during the Olympiad. A Spirit Award is presented to the school in each division that best exemplifies the Spirit of Science Olympiad (i.e., good sportsmanship, enthusiasm for learning and promoting excellence in science).