



2010 CALGARY YOUTH SCIENCE FAIR

## SAFETY REGULATIONS

**MUST BE READ AND UNDERSTOOD BY STUDENTS, PARENTS AND COORDINATORS.**

**ALL PROJECTS WILL BE INSPECTED PRIOR TO, AND DURING, THE FAIR. ANY PROJECT THAT VIOLATES ANY OF THE FOLLOWING REGULATIONS WILL BE DISQUALIFIED FROM THE FAIR.**

### GENERAL SAFETY

1. All sharp edges or corners on prisms, mirrors, enclosures, glass and metal plates etc. must be made safe to public viewers by appropriate covering.
2. The exhibit itself must be stable and not easily tipped over.
3. Dangerous moving parts (belts, pulleys, gears etc.) must be guarded.
4. Hoses, extension cords etc. must be kept out of the aisles.
5. Compressed gas cylinders (including aerosol cans, empty or full) are not allowed.

### FIRE SAFETY

1. Highly inflammable materials shall not be exhibited (i.e. gasoline, matches, candles, sulphur etc.).
2. No Flames Of Any Sort Are Allowed At Any Time.

### CHEMICAL SAFETY

1. No toxic, flammable, or corrosive chemicals shall be exhibited. For the purposes of demonstration or display, use look-a-like substitutes that are not dangerous (i.e. salt, water etc.).

### ELECTRICAL SAFETY

1. Use the lowest voltage possible. No exposed parts over 36 volts are allowed.
2. Use only CSA approved appliances and extension cords, with a grounded 3 prong plug. The cords must be in good condition.
3. Electrical portions of display must be enclosed so not to endanger the public and the enclosure must not be considered a fire hazard. All non-current carrying metal parts must be grounded.
4. Where practical, a pilot light should be installed to indicate on/off.
5. Lasers may be displayed, but shall not be operated or connected to a power source.

### BIOLOGICAL SAFETY

1. Displays of live animals or microbiological cultures in any form are not allowed.
2. Any project that involves observation of or experimentation on an animal (or animal tissue samples) or humans must meet the "GUIDELINES FOR THE USE OF HUMAN SUBJECTS AND ANIMALS".
3. The use of human tissues, blood, urine, feces, mucus, semen, hair, teeth etc. is absolutely forbidden (see possible exception for grade 10-12 students under guidelines for use of human subjects and animals).
4. Projects using human beings as subjects in their studies must use the "INFORMED CONSENT FORM" with their subjects. Completed forms should be stored in the project's log book.

### RADIATION SAFETY

1. Radioactive materials and radiation producing equipment shall not be displayed.
2. Experiments working with radioactive materials or radiation producing equipment must follow the regulations established by the RADIATION HEALTH BRANCH (Occupational Health and Safety, Government of Alberta, Edmonton).

### PROJECT SIZE

Front to back 76 cm (2.5 ft); side to side 122 cm (4 ft); floor to top 366 cm (12 feet). Your project size will be assessed during check-in. If it exceeds the limits in any direction and can't be adjusted, it will be disqualified.