

# EKRSF SAFETY REGULATIONS

MUST BE READ BY PARTICIPANTS, PARENTS, AND TEACHERS PRIOR TO REGISTRATION

## GENERAL SAFETY

1. The exhibit itself must be sturdy, self-supported and not easily tipped over.
2. All sharp edges or corners on mirrors, enclosures, glass and metal plates etc. must be removed or covered. Projects should be constructed in such a way that there are no protruding sharp wires, screws, nails, etc.
3. Dangerous moving parts (belts, pulleys, gears, etc.) must be covered by a safety guard.
4. Aisles must not be obstructed and must be kept clear of hoses, extension cords, ropes, personal belongings, etc.
5. Moving exhibits should be restricted to the display space unless permission is granted for demonstrations.
6. Compressed gas cylinders (including aerosol cans, empty or full) must not be displayed.

## FIRE SAFETY

1. Highly flammable materials must not be exhibited (i.e. gasoline, matches, butane lighters, sulphur, etc.).
2. Flames of any sort (covered or exposed) are not allowed in the exhibit area at any time!
3. Combustible material must not be used near a heat source. Hot plates/heating elements must not be operated.

## CHEMICAL SAFETY

1. Toxic, flammable, or corrosive chemicals shall not be exhibited. Strong dyes and stains should not be exhibited.
2. Potentially dangerous chemicals must not be displayed (this includes prescription and non-prescription drugs)
3. For the purposes of demonstration or display, safe look-a-like substitutes should be used (i.e. salt, water etc.).

## ELECTRICAL SAFETY

1. Use the lowest voltage possible.
2. Switches and cell or battery fed circuits must be safe in design and operation.
3. Use only CSA approved appliances and undamaged extension cords with grounded 3-prong plugs.
3. AC (120 volt, 60 cycle), from a GFCI-protected outlet will be the only power source supplied by the EKRSF.
4. Exposed live wires and circuit boards must be enclosed so as not to endanger the public and the enclosure must not present a fire hazard. All metal parts which are not intended to conduct current must be grounded.
5. Where practical, a light should be installed to indicate on/off.
6. Lasers may be displayed, but shall not be operated or connected to a power source.

## BIOLOGICAL SAFETY

1. Live animals, animal parts or tissues (except prepared slides) and microbiological cultures must not be displayed.
2. Any project that involves the observation of, or experimentation on, animals (or animal tissue samples or cells), humans, animal viruses, potential pathogens, recombinant DNA or human DNA must be properly supervised.
3. The use of biological agents, human tissues, blood, urine, feces, mucus, semen, hair, teeth etc. is forbidden, except in the case of Senior (Gr 11 and 12) students working under the supervision of a qualified person.
4. "Informed Consent" forms must be signed by all human volunteers participating in surveys, studies, and experiments. Completed forms should be stored in the project's log book and must be available upon request.

## RADIATION SAFETY

1. Radioactive materials and radiation producing equipment must not be displayed.
2. Experiments involving work with radioactive materials or radiation producing equipment must be performed in accordance with all provincial and federal guidelines and under the supervision of a qualified person.

## FIREARMS, HAZARDOUS EQUIPMENT AND VOLATILE MATERIAL SAFETY

1. Participants are permitted to conduct research involving hazardous equipment, hazardous materials, and firearms only if they adhere to federal and provincial regulations and guidelines. Firearms (including air rifles and replicas) and other weapons (crossbows, slingshots, etc.) must not be exhibited or brought to the fair.
2. The use of hazardous equipment, explosives, firearms and dangerous goods requires proper supervision by a qualified professionally trained person and must be approved by the EKRSF Safety and Ethics Committee. The supervisor will be asked to present their credentials.
3. Hazardous equipment or materials (explosive, flammable, toxic or volatile) must not be exhibited.