

NEW JERSEY SCIENCE CONVENTION SAFETY GUIDELINES FOR PRESENTERS

Presenters must:

1. Know properties of the chemicals and the chemical reactions involved in all demonstrations presented.
2. Comply with all local regulations.
3. Wear appropriate eye protections for all chemical demonstrations.
4. Warn the members of the audience to cover their ears whenever a loud noise is anticipated.
5. Plan the demonstration so that harmful quantities of noxious gases (e.g., NO₂, SO₂, H₂S) do not enter the local air supply.
6. Provide safety shield protection whenever there is the slightest possibility that a container, its fragments, or its contents could be propelled with sufficient force to cause personal injury.
7. Arrange to have a fire extinguisher at hand whenever the slightest possibility of fire exists.
8. Not taste nor encourage spectators to taste any nonfood substance.
9. Not use demonstrations in which parts of the human body are placed in danger (such as placing dry ice in the mouth or dipping hands into liquid nitrogen).
10. Not use "open" containers of volatile, toxic substances (e.g., benzene, CCl₄, CS₂ formaldehyde) without adequate ventilation as provided by fume hoods.
11. Provide written procedure, hazard, and disposal information for each demonstration whenever the audience is encouraged to repeat the demonstration.
12. Arranged for appropriate waste containers for and subsequent disposal of materials harmful to the environment.
13. Take back to school or place of employment hazardous waste material so that it may properly be disposed.
14. In planning demonstrations and/or workshops, keep to a minimum quantities of hazardous materials.
15. Follow correct handling procedures of biohazards.
16. Take proper precautions (e.g., eye protection against physical hazards, such as boiling, projectiles, electrical apparatus, hot materials and cryogenic materials).
17. Emphasize and demonstrate appropriate safety techniques.
18. Provide appropriate safety protection for audience participants when appropriate.
19. Note clearly at the beginning of the program the presence of allergenic materials such as live animals and certain chemicals.
20. Maintain clear egress during the demonstration or workshop.
21. Not use live vertebrate animals for an experimental purpose. They may use these animals for observational purposes provided the animals have been lawfully acquired, are housed in proper containers, and are handled in a humane way following the National Association of Biology Teachers' Guidelines. (11250 Roger Bacon Drive, Reston, VA 22090)

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