Minimum Safety Guidelines for Chemical Demonstrations

ACS Division of Chemical Education

Chemical Demonstrators Must:

- 1. Know the properties of the chemicals and the chemical reactions involved in all demonstrations presented.
- 2. Comply with all local rules and regulations.
- 3. Wear appropriate eye protection for all chemical demonstrations.
- 4. Warn 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 wherever 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 for fire exists.
- 8. Not taste or 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. Arrange for appropriate waste containers for and subsequent disposal of materials harmful to the environment.

Revised 4/1/95

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Print name:	 	
Signature:	 	
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This form must be submitted to Dianne Clark (<u>dclark@radford.edu</u>, fax: 540-831-6615, Box 6949, Department of Chemistry and Physics, Radford University, Radford, VA, 24142) for anyone that will be using chemicals in a talk or a hands-on workshop. Failure to submit this form will result in the presenter being dropped from the program.