

Standard Operating Procedure

1.0 Purpose:

The aim of this guideline is to inform all personnel who use the sputter coater about the proper procedures, safety concerns and to maximize the degree of efficiency.

2.0 Scope and Applicability:

The purpose of sputter coating is to apply a thin layer of a carbon to non-conducting specimen. This prevents charge build-up in sample while under the electron beam. This document applies to any personnel who will be using the carbon coater to coat samples.	
	Department, Lab or Center: Electron Microscopy Centre
	Research Group:
	Lab Bldg., Room(s): Science Building, Suite 001C
	Operation/Experiment:

3.0 Responsibilities:

Users shall perform the following procedure within the EM Lab (S001C) regarding the coating of samples. Only trained personnel should operate this equipment.

4.0 Health, Safety and Environmental Considerations:

4.1 Materials and Hazards

Principal Materials Used	Flammable	Corrosive	Sensitizer	Mutagen	Teratogen	Biological Toxin	Acutely Toxic	Pyrophoric	Water-Reactive	Shock Sensitive	Carcinogen	Unstable	Other Comments
Carbon Thread													

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	Permits:
	Mgmt. Approval:
	Training:

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10. Vent the chamber by turning off the unit.
11. Wait until the pressure in the chamber reaches atmosphere pressure. Open the cover and remove the specimens.