

**IMPROVING REMOVABLE THIN FILMS USED FOR THE ABATEMENT  
AND MITIGATION OF HAZARDOUS PARTICULATES\***

M.E. Lumia and C.A. Gentile  
Princeton Plasma Physics Laboratory, PO Box 451, Princeton NJ 08543  
mlumia@pppl.gov

It has been determined that there are multiple uses of removable thin films for the abatement of hazardous particulates; research has now commenced on improving these thin films for increased deployment opportunities. Currently, removable thin films are designed to trap and fix particulates in the film's matrix by adhesion. Thin films can be applied to an existing contaminated area to fix and capture the particulates for removal. Research is underway to vary the viscosity of the removable thin films to better fit the different surfaces types. In addition, the formula of the removable thin films is being tailored to make them indicating, this will help determine the type of contaminant that is present and will be able to determine when contaminants have been removed. Finally, explorations into to improving the amount of time needed to apply the removable thin films to the contaminated surfaces are being conducted.

\*Work supported by U.S. DOE Contract No. DE-AC02-76CH03073.