

Reminder

ILP Webcast with Karen Gleason

Polymeric Nanocoatings by
Hot Filament Chemical Vapor Deposition

May 5, 2004 11:00 a.m. EDT



Dear ILP Member -- Please join us for an ILP Webcast, May 5th, featuring MIT's Karen Gleason. Following are details including meeting ID and key.

Wednesday, May 5th, 11:00 a.m. ET

**Polymeric Nanocoatings by
Hot Filament Chemical Vapor Deposition (HFCVD)**

Karen Gleason, Professor of Chemical Engineering
Executive Officer, Department of Chemical Engineering

In this talk, MIT Professor Karen Gleason will discuss how the conformal nature of hot filament chemical vapor deposition (HFCVD) allows the "shrink wrapping" of carbon nanotubes. Using hot filaments to drive the gas phase chemistry has enabled the deposition of true linear polymers rather than the highly crosslinked organic networks typically associated with CVD. The hot filament CVD method is particularly valuable for creating ultrathin layers of insoluble polymers, such as polytetrafluoroethylene (PTFE, Teflon-TM) and polyoxymethylene (POM, Delrin-TM). HFCVD has been used to create biopassive coatings on implantable medical devices and to impart water resistance to fabric and paper. The HFCVD films also enables new processing schemes for microfabrication, including all-dry patterning and air gap formation.

Professor Gleason works in the areas of applied physical chemistry and the chemical reaction engineering of thin films. Her research group has developed and patented chemical vapor deposition (CVD) processes for microelectronics, biopassivation and lubricity applications that allow systematic control over the composition of organic thin films. Her group also specializes in solid-state nuclear magnetic resonance characterization of thin films and polymers.

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