



Faculty of Engineering and Applied Science
CHEMICAL ENGINEERING



“Interfacial Engineering Using Siloxanes”

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Thursday, February 9, 9:30am

Dupuis Hall, Room 215

ABSTRACT

Silicones are well known for their ability to migrate to interfaces. When appropriately functionalized, this surface activity can be used to permanently structure interfaces. Three examples of this behavior, directed to different applications will be discussed: gold nanoleaves, high surface area surfaces with potential catalytic activity; permanently wettable silicone elastomers for improved biocompatibility; and, polymerized siliconebased microemulsions as possible contact lens materials (Scheme). The relationship between silicone structures, the resulting surface activities and the origins of the structuring will be discussed.

See Figure on page 2.

