



Controlling and Enhancing Fiber Surfaces

Prof. Juan Hinstroza, Fiber Science and Apparel Design

An interactive module for graduate students

This module will introduce students to the world of fibers and methods used to modify and enhance their surfaces. Fibers have been used by humans since the beginning of civilization in making ropes, clothing, weapons, bridges, parachutes, and more. Topics will include an introductory lecture on novel applications of fibers, characterization and processing methods for natural fibers, characterization and processing methods for synthetic fibers, and strategies for fiber surface functionalization. An SEM session is also part of the module and it will help the students to understand the unique properties of fibers and the main differences between natural and synthetic fibrous materials.

Lectures 3:00 – 4:30 pm in Clark 701

All interested students welcome

Monday, Nov. 14
Novel applications of fibers: From protective clothing to cotton transistors

Wednesday, Nov. 16
Characterization and processing of natural fibers

Monday, Nov. 28
Characterization and processing of synthetic fibers

Wednesday, Nov. 30
Strategies for fiber surface functionalization

SEM Laboratory 1:00 – 5:00 pm in SB56 Bard Hall

*Limited enrollment — Register with hunt@ccmr.cornell.edu, jh433@cornell.edu
Choose one: Nov 21, Nov 22, Nov 28, and Nov 29 (4 students max per day)*

For more information on the IGERT Fellowship program, see <http://www.ccmr.cornell.edu/igert/>



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