

Solid State Seminar Series

Speaker: Marya Lieberman (Chemistry and Biochemistry Department)

Top-Down Meets Bottom-Up

Abstract: Top-down lithography can create patterns down to about 10 nm in size. bottom-up synthesis and self-assembly can control the placement of individual atoms in structures up to about 10 nm in size. What happens when we try to juxtapose the two methods? I will start with some background on the structures of proteins and nucleic acids, and then describe what happens when "soft" biological structures encounter "hard" silicon.