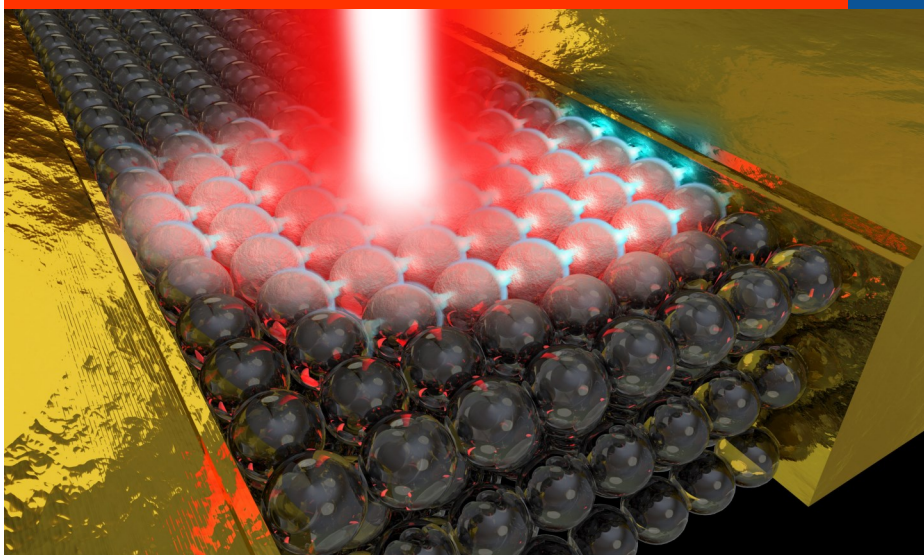


CHEMISTRY COLLOQUIUM

Guest Speakers:
Professor Ignacio Franco
University of Rochester
Department of Chemistry

Wednesday, November 14,
12:00pm

Hutchison Hall Room 140
Lander Auditorium
University of Rochester
Department of Chemistry



**Title: “Molecules under Torture:
Lasers, Forces, Voltages, and Beyond”**

Abstract: In this talk, I will summarize our efforts developing novel schemes to control matter through the application of external stimuli, a topic that we like to refer to as “Molecules under Stress”. Specifically, I will first discuss how non-resonant light can be used to create a novel class of laser-dressed materials with emerging electronic properties that can be very different from those observed near thermodynamic equilibrium. Then, I will summarize our progress understanding the decoherence processes that limit our ability to use quantum coherence to enhance molecular function. Last, I will exemplify our research efforts to advance molecular junctions as a platform for multidimensional electromechanical spectroscopies that operate at the single-molecule limit.



Host: Professor Michael Neidig, email: Michael.Neidig@rochester.edu