



Using ESP to Talk with Molecules

Dr. Josh Kurutz

Department of Chemistry

If you knew your favorite molecule had a voice, wouldn't you want to know what it had to say? In analytical chemistry, we engage in conversations with chemicals to figure out what they are, the architecture of their structures, the choreography of their motions, and other aspects of their existence. In this cafe, we'll use all of our senses to experience some molecules, and discuss how we use technology to give us extrasensory perception. We'll discuss one technique in detail, nuclear magnetic resonance spectroscopy (the parent of MRI), and see how the resonant frequencies of individual atoms in a molecule add up to unique chords for individual compounds that we can actually hear. We'll also explore philosophical relationships between technology, knowledge, and limits on humans' capacity to know.

JUNIOR SCIENCE CAFÉ 2

Friday, November 20, 4—5:15 PM in The Loft, 3rd floor
Evanston Public Library 1703 Orrington Ave., Evanston 60201

For more information on the Science Café programs
visit : www.sciencecafe.northwestern.edu

