

# *The Inaugural Richard B. Bernstein Lectureship*

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University of Wisconsin-Madison, Department of Chemistry

**Tuesday, April 21, 2009**

**11:00 a.m.**      ***Attochemistry***      **Room 1315**

Richard Bernstein studied what happens during a chemical reaction. A reaction requires reorganization of atoms in the molecule(s) and Bernstein (or Dick to his friends) sought to understand this rearrangement in both space and time. We ask what happens when the atoms are not moving. This requires that we view the system with a very fine time resolution. Can such a fast time scale still be pertinent for chemistry? We discuss and demonstrate by computer simulations that it should be possible to induce interesting dynamics and that it is feasible to pump in a stereoselective fashion, a theme pioneered by Dick. We further show the photochemical implications of such novel processes.



**Professor Raphael David Levine**

Max Born Professor of Natural Philosophy,  
Hebrew University of Jerusalem

Professor of Chemistry,  
University of California, Los Angeles

***Reminiscences of Richard B. Bernstein  
and Reception***      **Room 9341**

**3:30 p.m.**

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