



**Department of Chemistry**  
**2016-17 Seymour Rothchild Lecture**



*Presents*

**Professor Jacqueline K. Barton**

Division of Chemistry and Chemical Engineering  
California Institute of Technology

**“DNA Signaling”**

Friday, September 30<sup>th</sup>, 2016

12:00 p.m.

140 Lander Auditorium, Hutchison Hall

**Welcome Reception 5:15 pm,**

**Green Carpet Lounge**

**Dr. Jacqueline K. Barton** is the Arthur and Marian Hanisch Memorial Professor of Chemistry and Norman Davidson Leadership Chair of the Division of Chemistry and Chemical Engineering at the California Institute of Technology. Barton obtained her Ph.D. at Columbia University. After a postdoctoral fellowship at Bell Laboratories and Yale University, she first joined the faculty at Hunter College and then returned to Columbia University. In 1989, she joined Caltech. Barton has carried out studies to elucidate DNA-mediated electron transfer chemistry. This chemistry has been applied in the development of DNA-based electrochemical sensors and explored in the context of DNA repair and long range signaling within the cell. Through this research, Barton has trained more than 100 graduate students and postdoctoral students. Barton's awards include the NSF Waterman Award, a MacArthur Foundation Fellowship and, most recently the Priestley Medal, the highest award of the American Chemical Society. She has been elected to the American Academy of Arts and Sciences, the American Philosophical Society, the National Academy of Sciences, and the National Academy of Medicine. In 2011, Barton received the 2010 National Medal of Science.

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