## MAE Baetjer Colloquium

## Stimulated Raman Scattering Microscopy: Seeing the Invisible in Biology and Medicine



Sunney Xie Professor of Chemistry Harvard University

Friday, April 6<sup>th</sup> 4:00 PM, Maeder Hall

Stimulated Raman scattering (SRS) microscopy is a label-free and noninvasive imaging technique using vibration spectroscopy as the contrast mechanism. Highly sensitive, SRS has opened a wide range of biomedical applications, allowing for imaging of small molecules, such as metabolites, drug molecules, or neurotransmitters.

Xie received his B.S. from Peking University (1984), Ph.D. from UCSD (1990) and became a tenured Professor of Chemistry at Harvard University in 1999. Currently he is the Mallinckrodt Professor of Chemistry and Chemical Biology at Harvard, the Director of Beijing Advanced Innovation Center for Genomics (ICG), and the Director of Biodynamics Optical Imaging Center (BIOPIC), both at Peking University.

Xie is a founder of single-molecule biophysical chemistry and its applications to biology and medicine. He also pioneered coherent Raman scattering microscopy and single cell genomics. Among his many honors was the Albany Prize in Medicine and Biomedical Research. He is a fellow of American Academy of Arts and Sciences, a member of the National Academy of Sciences, and a member of National Academy of Medicine.

Social following the talk outside of Maeder Hall All are welcome

