



ICFO Colloquium STEVEN CHU 'Optical Microscopy in a New Light'

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March 21, 2014

Friday, March 21st, 10:30, ICFO's Auditorium

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Professor of Physics and Molecular and Cellular Physiology of Stanford University \$\$ Steven Chu is the William R. Kenan, Jr. Professor of Physics and Professor of Molecular and Cellular Physiology at Stanford University. From January 2009 until April, 2013, Dr. Chu served as the 12th U.S. Secretary of Energy under President Barack Obama. We was the longest serving Energy Secretary and the first scientist to head the DOE.

Within Dr. Chu's distinguished research career, he was co-awarded the Nobel Prize in Physics in 1997 for "development of methods to cool and trap atoms with laser light".

There have been dramatic improvements in the effective resolution of optical microscopy. I

will describe further developments we are undertaking in my laboratory and the application of these technologies in neuronal cell signaling, how mutations in the Ras-Raf MEK ERK signaling pathway lead to cancer, and the study of live bio-films, all at ~10 nm optical resolution.

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