

## Speaker Profile



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### **Prof. Luke P. Lee**

Lloyd Distinguished Professor

Director, *Biomolecular Nanotechnology Center*  
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**Prof. Luke P. Lee** is Lloyd Distinguished Professor of Bioengineering at UC Berkeley. He was Chair Professor in Systems Nanobiology at the Swiss Federal Institute of Technology (ETH, Zurich) and initiated Institute of Nanobiology and Systems Nanomedicine at the ETH.

His vision is to establish quantitative biomedicine and personalized medicine. His current research interests are bionanophotonics, systems nanomedicine, molecular nanospectroscopic imaging, single cell biophysics, quantitative cell biology, molecular diagnostics, nanoplasmonics, *n*SERS (nanofluidic Surface Enhanced Raman Spectroscopy), soft-state biological devices, Biofluidic Application Specific Integrated Circuits (BioASIC), and Biologically-inspired Photonics-Optofluidics-Electronics Technology and Science (BioPOETS).

Prof. Lee has authored and co-authored over 190 papers on bionanophotonics, integrated optofluidics, single cell biology, dynamic cell culture systems, BioMEMS, biosensors, SERS, nanogap biosensor for label-free biomolecule detection, integrated optoelectronics, and Superconducting Quantum Interference Devices (SQUIDs). He holds also more than 20 patents, mostly concerning microfluidic cellular analysis devices, biomedical probes, diagnostic systems, devices and fabrication.

He received both his B.A. in Biophysics and Ph.D. in Applied Physics/Bioengineering from UC Berkeley. His thesis topic was "Biomedical Polymer Optoelectronic Mechanical Systems (BioPOEMS)."

Prior to his academic appointment at UC Berkeley, Prof. Lee had more than ten years of industrial experience in integrated optoelectronics, SQUIDs, and magnetic bioassays at TRW and Conductus.