



Dr. Seok-Hyun Yun, Harvard University

Talk Title: A Living Laser: Laser Particles in Cells

Abstract: Laser particles are a new class of optical reagents capable of generating coherent light with 100-1000 times narrower spectra than conventional fluorescence. Being injectable, implantable and biocompatible, laser particles provide new tools for life sciences and medicine, particularly by enabling us to track individual single cells.

Bio: S. H. Andy Yun was born in S. Korea and received his Ph.D. degree in Physics from KAIST. After having worked in a startup he co-founded in Silicon Valley, he moved to Boston to join the Wellman Center for Photomedicine at MGH and Harvard Medical School, where he is currently a full Professor. Dr. Yun's research contributed to the development of swept-source optical coherence tomography and led to the inventions of Brillouin microscopy and biological lasers. He has published over 210 papers and holds over 70 patents, many of which have been licensed to industry. He is the scientific founder of Intelon Optics, Inc. and LASE Innovation, Inc. He serves as the Director of the Harvard-MIT Summer Institute for Biomedical Optics. He is a recipient of the 2016 NIH Director's Pioneer Award.