Invited Presentations: William Esco (W. E.) Moerner


   (i) The Research Center for Advanced Science and Technology, University of Tokyo, Tokyo, Japan, October 23, 1989;
   (ii) SONY Corporation Central Research Center, Yokohama, Japan, October 24, 1989;
   (iii) Nikon Corporation Research Laboratory, Tokyo, Japan, October 25, 1989;
   (iv) Mitsubishi Central Research Laboratory, Hyogo, Japan, October 26, 1989;
   (v) Toray Industries Electronic and Imaging Materials Research Laboratory, Otsu, Japan, October 27, 1989.


143. “Single-Molecule Nanophotonics: Gels and Molecular Motors,” Physical Chemistry Seminar, University of California San Diego, La Jolla, California, October 8, 1996.


“Optical Studies of Individual Molecules, One at a Time—What Can We Learn?”, Physical Chemistry Seminar, University of California Irvine, Irvine, California, February 17, 1998.


“Optical Detection of Single Molecules and Individual Proteins in Poly(Acrylamide)


230. “Single Molecules as Local Nanophotonic Probes and Sources”, a series of lectures presented in the Conference Universitaire de Suisse Occidentale du 3ème Cycle en
Chimie:

(a) “Single-Molecule Spectroscopy as a Local Nanoscopic Probe,” University of Basel, June 18, 2003

(b) “Optical Spectroscopy of Single Molecules in Condensed Phases,” University of Bern, June 19, 2003

(c) “Biophysical Studies Using Single-Molecule Local Probes,” EPFL Lausanne, June 20, 2003


(e) “Applications of Single Molecules as Nanophotonic Probes and Sources,” University of Geneva, June 24, 2003


239. “Single Molecules as Local Nanoscopic Probes,” Department of Chemistry and


268. “Probing, Imaging, and Trapping Single Biomolecules,” Imaging Focus Group Seminar Series, University of Texas Southwestern Medical School, Dallas, Texas, February 27, 2006.


275. “Visualizing Single Molecules with Lasers,” Yunker Lecture, Department of Physics, Oregon State University, Corvallis, Oregon, November 6, 2006.


315. “Lighting Up Single Molecules to Probe Complex Environments, From Crystals to Cells,” Evans Award Public Lecture, The Ohio State University, Columbus, Ohio, October 8, 2009.

316. “Single-Molecule Superresolution Imaging and Trapping,” The Evans Award Lecture, The Ohio State University, Columbus, Ohio, October 9, 2009.


338. “Examples, Molecules, and Methods for Super-Resolution Imaging in Cells with Single Molecules,” a series of lectures presented in the **Leica Scientific Forum** at:
   (a) Institute of Integrated Biology, University of Liverpool, June 27, 2011
   (b) Department of Pharmacology, University of Oxford, June 28, 2011
   (c) Department of Chemistry, University of Cambridge, June 29, 2011
   (d) Department of Physics, Imperial College London, June 30, 2011


345. “Single fluorescent molecules as nano-illuminators for biological structure and function in cells,” Single Molecules Meet Systems Biology Symposium, HHMI Janelia Farm Research Campus, Ashburn, Virginia, October 26, 2011.


348. “Photodynamics of Single Antenna Proteins and Redox Enzymes in Solution by
Suppression of Brownian Motion,” DOE-BES Photosynthetic Systems Research Meeting, Baltimore, Maryland, November 8, 2011.


Cells and Organisms, Suzhou Dushu Lake Conference Center, August 22, 2013.


386. “Single-Molecule Spectroscopy and Imaging: 3D Nanoscopy and Biomolecular Dynamics,” Biological Sciences Seminar, University of Southern California, Los Angeles, California, April 25, 2014.


444. “The Story of Single Molecules, from Early Spectroscopy in Solids, to Super-Resolution Nanoscopy in Cells and Beyond,” University Seminar, University of Bayreuth, Bayreuth,
Germany, October 9, 2015.


455. “Fun with Light and Single Molecules Opens Up an Amazing New View Inside Cells,” 50th Anniversary Celebration of Faculty of Science, University of Chile, Santiago, Chile, December 9, 2015.


Fluorophores for Biological Imaging (#280), Honolulu, Hawaii, December 17, 2015.


466. “The story of single molecules, from early spectroscopy in solids, to super-resolution nanoscopy in cells and beyond,” Director's Distinguished Lecture, Research School of Physics and Engineering, Australia National University, Canberra, Australia, February 9, 2016.

467. “My Route to the Nobel Prize: Fun with Light and Single Molecules Leads to an Amazing New View Inside Cells!,” University of New South Wales, Canberra, Australia, February 9, 2016.


“Fun With Single Molecules - Tiny Nanoscale Points of Light Help Us See Inside Cells!,” Fred J. Robbins Public Lecture to high school students from 17 schools, Department of Chemistry, Pomona College, Claremont, California, March 28, 2016.


“Single-molecule approaches to cell biology based on imaging and tracking,” Fred J. Robbins Lecture 3, Department of Chemistry, Pomona College, Claremont, California, March 30, 2016.

“Multivariate photodynamics of individual molecules in solution with the ABEL trap,” Fred J. Robbins Lecture 4, Department of Chemistry, Pomona College, Claremont, California, March 31, 2016.

“Fun with Light and Single Molecules Started 27 Years Ago Opens Up an Amazing New View Inside Cells (and beyond),” 75th Anniversary of The Institute of Chemistry, UNAM, Mexico City, Mexico, April 5, 2016.

“My Route to the Nobel Prize: Fun with Light and Single Molecules Leads to an Amazing New View Inside Cells!,” UNAM Preparatory School ENP 6, Mexico City, Mexico, April 6, 2016.


“The Story of Single Molecules, from Early Spectroscopy in Solids, to Super-Resolution Microscopy, Which Opens Up an Amazing New View Inside Cells,” Hightower Lecture, Department of Physics, Emory University, Atlanta, Georgia, April 12, 2016.


“The Story of Single Molecules: How Precise High-Resolution Spectroscopy at Low
Temperatures Led to Super-Resolution Microscopy and Beyond,” Hong Kong University of Science and Technology, 25th Anniversary Distinguished Speaker, Hong Kong, May 16, 2016.


Tracking in Cells,” University Lecture, University of Texas Southwestern School of Biomedical Science, Dallas, Texas, March 22, 2017.


518. “My Route to the Nobel Prize: Fun with Light and Single Molecules Leads to an Amazing New View Inside Cells,” Keynote Lecture, California State Science Fair 2017, California Science Center, Los Angeles, California, April 24, 2017.


