

Dr. C. P. J. Barty is currently the Program Director of the Photon Science and Applications Program at Lawrence Livermore National Laboratory. His academic background includes Ph.D and M.S. degrees in applied physics from Stanford University and bachelor degrees with honors in chemistry, physics and chemical engineering from North Carolina State University. During his career he has founded both the biennial international meeting on Ultrafast Optics and the International Conference on Ultrahigh Intensity Lasers. Currently, he is the Co-chair of the International Committee on Ultrahigh Intensity Lasers. He has published approximately 150 manuscripts, spanning topics in lasers, optics, materials science, medicine, chemistry, engineering and physics. He was elected a Fellow of the Optical Society of America for his pioneering work on intense short-pulse lasers and x-ray applications.

Before his arrival at LLNL in 2000, Dr. Barty had been Director of Laser Science for a privately funded research organization at the University of California at San Diego, Director of Advanced Technology for a Silicon Valley laser company, and had served as a member of the Applied Physics and Electrical Engineering Faculty at Stanford University. At LLNL, Dr. Barty has been Chief Scientist for the Laser Science and Technology Program and played a pivotal role in the establishment of the Photon Science and Applications Program which he now directs.

His technical interests include development of new optical capabilities for fusion energy drivers, fast ignition, directed energy systems, high-energy-density science, nuclear photo-science and laser-based x-ray applications of relevance to national security-related missions, programs and projects.