

THE UNIVERSITY OF MICHIGAN

Regents Communication

ACTION REQUEST

Subject: Report of Faculty Retirement

Action Requested: Adoption of Retirement Memoir

Stephen C. Rand, Ph.D., professor of electrical engineering and computer science in the College of Engineering and professor of applied physics in the Department of Physics in the College of Literature, Science, and the Arts, retired from active faculty status on December 31, 2020.

Professor Rand received his B.Sc. degree from McMaster University in 1972 and his M.Sc. and Ph.D. degrees from the University of Toronto in 1974 and 1978, respectively. Professor Rand held positions at the IBM Research Laboratory as a World Trade Postdoctoral Fellow (1978-80), as a research associate in the Department of Physics at Stanford University (1980-82), and as a member of the technical staff at Hughes Research Laboratory (1982-87). He joined the University of Michigan faculty as an associate professor in 1987, and was promoted to professor in 1996.

Professor Rand conducted research that was interdisciplinary in nature, exploring interactions between light and matter. He invented the diamond laser and reported ultrafast, laser-induced radiant magnetism. His group's recent work addressed two frontiers of optical science - optical magnetism and laser cooling of solids - and led to the establishment of the Center for Dynamic Magneto-Optics (DYNAMO) at the University of Michigan, of which Professor Rand served as founding director (2014-20). Professor Rand published over 135 papers, was granted 18 patents, and graduated eight M.Sc. students, 19 Ph.D. students, and supervised nine postdoctoral fellows. He taught undergraduate and graduate courses on electromagnetics, optics, nonlinear optics, photonics, and lasers, as well as quantum mechanics and quantum optics. Professor Rand authored the textbook *Lectures on Light: Nonlinear and Quantum Optics using the Density Matrix* published by Oxford University Press (2016). Professor Rand was an editor of the *Journal of the Optical Society of America* (1992-97). He was named a Senior Fulbright Scholar (1994-95), an Erskine Fellow (2014) and served as general chair of the 16th International Conference on Luminescence (ICL'11). He was a fellow of the American Physical Society, the Institute of Physics, and the Optical Society of America.

The Regents now salute this distinguished faculty member by naming **Stephen C. Rand, professor emeritus of electrical engineering and computer science and professor emeritus of applied physics, Department of Physics.**

Requested by:



Sally J. Churchill, J.D.
Vice President and Secretary of the University

December 2020