

THE UNIVERSITY OF MICHIGAN

Regents Communication

ACTION REQUEST

Subject: Report of Faculty Retirement

Action Requested: Adoption of Retirement Memoir

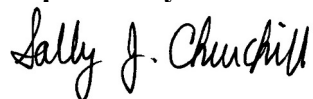
Duncan Steel, Ph.D., Robert J. Hiller Professor of Engineering and professor of electrical engineering and computer science in the College of Engineering, and professor of physics in the College of Literature, Science, and the Arts, retired from active faculty status on May 31, 2023.

Professor Steel received his A.B. (1972) degree in physics from the University of North Carolina at Chapel Hill. He received his M.S. (1973) degree in electrical science, his M.S. (1975) degree in nuclear science, and his Ph.D. (1976) degree in nuclear and electrical science from the University of Michigan. He was a member of the technical staff at Hughes Research Laboratories (1975-1985). He joined the University of Michigan faculty in 1985 as an associate professor in electrical engineering and computer science and in physics and as an associate research scientist in the Institute of Gerontology at the Medical School. He was promoted to professor of electrical engineering and physics in 1989 and to research scientist in gerontology in 1990. In 2005, he was appointed the Robert J. Hiller Professor of Engineering.

Professor Steel was a true pioneer in the field of coherent nonlinear laser spectroscopy and a leader in the quantum electronics community. Through his groundbreaking application of laser spectroscopy to quantum processes, he made significant contributions to the emerging field of quantum computing. In the EECS department, he served as area chair for optics (1988-2007) and as director for the Optical Science Laboratory (1988-2007). In the College of Literature, Science, and the Arts he served as director/chair of the Biophysics Enhanced Program (2007-2009). He authored more than 400 published papers and chapters, developed courses in applied quantum mechanics and quantum optics, and advised or co-advised 62 Ph.D. students. He authored the textbook *Quantum Nanotechnology* (Oxford University Press, 2021) and served as co-editor of the *Encyclopedia of Modern Optics* (Elsevier, 2004). He received the Isakson Prize from the American Physical Society (2010), the University of Michigan's Distinguished Graduate Mentor Award (2010), and a Sloan Foundation grant to advance minority students in STEM. He is a Guggenheim Scholar and a fellow of the Optical Society of America, the American Physical Society, and IEEE.

The Regents now salute this distinguished faculty member by naming **Duncan Steel, Robert J. Hiller Professor Emeritus of Engineering, professor emeritus of electrical engineering and computer science, and professor emeritus of physics.**

Requested by:



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

May 2023