THE UNIVERSITY OF MICHIGAN

Regents Communication

ACTION REQUEST

Subject: **Report of Faculty Retirement**

Action Requested: **Adoption of Retirement Memoir**

Heang-Ping Chan, Ph.D., Paul L. Carson, Ph.D., Collegiate Professor of Radiology and professor of radiology in the Medical School, retired from active faculty status on February 6, 2024.

Professor Chan received her Ph.D. degree in medical physics from the University of Chicago in 1981. She joined the University of Chicago as an instructor in 1982, and was promoted to assistant professor in 1984, and associate professor in 1987. She joined the University of Michigan as an associate professor of radiological sciences without tenure and associate research scientist in radiology in 1989, she was promoted to associate professor of radiological sciences with tenure in 1993, and professor of radiology with tenure in 1995. She was named the Paul L. Carson, Ph.D., Collegiate Professor of Radiology in 2013. She also served as the director of the Computer-Aided Detection-Artificial Intelligence (CAD-AI) research laboratory in the Department of Radiology.

Professor Chan's research focused on diagnostic imaging, medical image analysis, and the application of machine learning and artificial intelligence methods for clinical decision support. She published the first study demonstrating CAD could improve radiologists' detection of subtle breast cancer in mammography. She established the CAD-AI Research Laboratory in 1989 and conducted research on the optimization of image quality and imaging techniques, the development of quantitative image analysis methods and decision support systems for various types of cancer and diseases, the development of radiomic biomarkers and predictive models for treatment response assessment and cancer risk prediction, and the validation of the developed models through observer studies. She was dedicated to mentoring the next generation of researchers in the development of AI methods in medical imaging applications. As the founding chair and a current member of the American Association of Physicists in Medicine (AAPM) CAD subcommittee, she works to establish best practices and guidelines on training and validation methodologies, quality assurance, and user training for decision support and AI systems in clinical practice, ensuring the trustworthy, equitable, and fair use of AI. She was elected a fellow of the AAPM (2004), the Institute of Physics (2004), and the SPIE (2023).

The Regents now salute this distinguished scholar and teacher by naming **Heang-Ping Chan, professor emerita of radiology**.

Requested by:

Sally J. Churchill

Sally J. Churchill, J.D.
Vice President and Secretary of the University   **February 2024**