

THE UNIVERSITY OF MICHIGAN

Regents Communication

ACTION REQUEST

Subject: Report of Faculty Retirement

Action Requested: Adoption of Retirement Memoir

John P. Hayes, Ph.D., Claude E. Shannon Professor of Engineering Science and professor of electrical engineering and computer science in the College of Engineering, retired from active faculty status on May 31, 2023.

Professor Hayes received his B.E. (1965) degree in electrical engineering from University College Dublin, Ireland, his M.S. (1967) degree in electrical engineering and Ph.D. (1970) degree in electrical engineering from the University of Illinois, Urbana-Champaign. He worked as a systems engineer at Shell Benelux Computing Center from 1970-1972. He joined the University of Southern California faculty in 1972 as an assistant professor. He was promoted to associate professor in 1977 and professor in 1982. Professor Hayes joined the University of Michigan faculty as a professor in 1982.

Professor Hayes' research focused on computer-aided design, verification and testing; VLSI circuits; reliable computer architecture; neural networks; and unconventional computing systems, and made significant contributions to digital testing techniques and to switching theory and logical design. He has authored over 340 technical papers, several patents, and seven books including *Computer Architecture and Organization* (McGraw-Hill, 3rd ed. 1998), *Quantum Circuit Simulation* (Springer, 2009), and *Design, Analysis and Test of Logic Circuits under Uncertainty* (Springer, 2012). He has advised 37 Ph.D. students.

Professor Hayes was the founding director (1985-1988) of the Advanced Computer Architecture Laboratory. He received the University of Michigan's Distinguished Faculty Achievement Award in 1999 and the Alexander von Humboldt Foundation's Research Prize in 2004. In 2013, he was awarded a Lifetime Contribution Medal from IEEE for outstanding contributions to test technology and was the recipient of the ACM SIGDA Pioneering Achievement Award for contributions to logic design, fault tolerant computing, and testing in 2014. Professor Hayes is a fellow of the Institute of Electrical and Electronics Engineers (IEEE) and the Association for Computing Machinery (ACM).

The Regents now salute this distinguished faculty member by naming **John P. Hayes, Claude E. Shannon Professor Emeritus of Engineering Science and professor emeritus of electrical engineering and computer science.**

Requested by:



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

May 2023