

THE UNIVERSITY OF MICHIGAN

Regents Communication

ACTION REQUEST

Subject: Report of Faculty Retirement

Action Requested: Adoption of Retirement Memoir

Pallab K. Bhattacharya, Ph.D., D.Eng.(Hon.), Charles M. Vest Distinguished University Professor of Electrical Engineering and Computer Science, James R. Mellor Professor of Engineering, and professor of electrical engineering and computer science in the College of Engineering, retired from active faculty status on December 31, 2023.

Professor Bhattacharya received his B.Sc. (1968), B. Tech. (1970), and M. Tech. (1971) degrees from the University of Calcutta, India, and his M. Eng. (1976), Ph.D. (1978) and D. Eng.(Hon.) (2015) degrees from the University of Sheffield, UK. He joined Oregon State University as an assistant professor in 1978, and was promoted to associate professor in 1982. He joined the University of Michigan faculty as an associate professor in 1984, and was promoted to professor in 1987. He was appointed the James R. Mellor Professor of Engineering in 1999 and was named the Charles M. Vest Distinguished University Professor in 2004.

Professor Bhattacharya has been a renowned leader in the development and commercialization of quantum dot lasers and devices following his group's discovery of the self-organized formation of quantum dots in 1988. He has also pioneered technological advances in synthetically modulated semiconductor structures, nanophotonic and spintronic devices, and other optoelectronic device and integrated circuit developments. He published 637 articles in archival refereed journals and graduated 81 Ph.D. students. He introduced four courses in the area of semiconductor devices, lasers and light emitting diodes, and authored four textbooks, including *Semiconductor Optoelectronic Devices*. He was director of the Solid State Electronics Laboratory (1991-98) and the Center for Nanoscale Photonics and Spintronics (2010-16), and director of three Multidisciplinary University Research Initiative (MURI) Centers. His numerous honors include the IEEE Jun-ichi Nishizawa Medal (2019), the Heinrich Welker Medal (2010), the IEEE David Sarnoff Award (2015), the IEEE Nanotechnology Pioneer Award (2007), the TMS John Bardeen Award (2008), the OSA Nick Holonyak, Jr. Award (2002), and a Guggenheim fellowship (1998). He is a fellow of IEEE, the American Physical Society, Optica, the Institute of Physics (UK), and the National Academy of Inventors. He is a member of the National Academy of Engineering.

The Regents now salute this distinguished faculty member by naming **Pallab K. Bhattacharya, Charles M. Vest Distinguished University Professor Emeritus of Electrical Engineering and Computer Science, James R. Mellor Professor Emeritus of Engineering, and professor emeritus of electrical engineering and computer science.**

Requested by:



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

December 2023