Adopted by the Regents
February 16, 2023

THE UNIVERSITY OF MICHIGAN

Regents Communication

ACTION REQUEST

Subject: **Report of Faculty Retirement**

Action Requested: **Adoption of Retirement Memoir**

Gregory Tarlé, Ph.D., professor of physics in the College of Literature, Science, and the Arts, retired from active faculty status on December 31, 2022.

Professor Tarlé received his B.S. degree from the California Institute of Technology in 1972 and his Ph.D. degree from the University of California at Berkeley in 1978. He joined the University of Michigan faculty as an assistant professor in 1984, and was promoted to associate professor in 1988, and professor in 1994.

His university service has ranged broadly from several terms on the Department of Physics' Executive Committee, seven years as associate chair of the Undergraduate Physics Program as well as many assignments to help improve both the research and teaching environments within LS&A. He has supervised 13 doctoral students and delivered more than 100 colloquia and talks in recent years on his work to better understand the structure of our Universe. Further, he has mentored more than ten postdoctoral research fellows, many of whom have become current leaders exploring this developing field.

Professor Tarlé has enjoyed a long and very successful career that spanned the fields of experimental astrophysics and cosmology. Early in his career, he created experiments that flew on balloons or resided in deep underground laboratories to study the antimatter content of cosmic rays and search for magnetic monopoles predicted by some extensions of the standard model of particle physics. These efforts established Professor Tarlé as a leader in experimental high-energy astrophysics and consequently named a fellow of the American Physical Society in 1997.

More recently, Professor Tarlé has become a major contributor to two of the world's most impactful cosmological experiments. For the Dark Energy Survey (DES), his team helped build the optical system of the DES camera at Cerro Tololo in Chile, which is mapping the behavior of dark energy in unprecedented detail. This has been followed by his contributions to the Dark Energy Spectroscopic Instrument (DESI), another cosmological survey that is taking spectra of tens of millions of galaxies to better understand Dark Energy. Professor Tarlé's team built all the DESI fiber positioners — a set of 5,000 small robotic arms which each take a spectrum of one galaxy at a time. The 1,100-member DESI collaboration, whose Institutional Board Professor Tarlé currently chairs, is well on their way to revolutionizing our understanding of the universe.

The Regents now salute this distinguished scientist by naming **Gregory Tarlé, professor emeritus of physics.**

Requested by:

Sally J. Churchill

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

February 2023