

THE UNIVERSITY OF MICHIGAN

Regents Communication

Adopted by the
Regents
May 15, 2014

ACTION REQUEST

Subject: Report of Faculty Retirement

Action Requested: Adoption of Retirement Memoir

John R. Barker, Ph.D., professor of atmospheric, oceanic, and space sciences in the College of Engineering, will retire from active faculty status on May 31, 2014.

Professor Barker received his B.S. degree from Hampden-Sydney College in 1965 and both his M.S. and Ph.D. degrees from Carnegie Mellon University in 1969. He served as a chemist (1974-78), senior chemist (1978-84), and program manager (1984-85) at the Stanford Research Institute. Professor Barker joined the University of Michigan faculty as a professor of atmospheric and oceanic science in 1985 and held an additional appointment of professor of chemistry from 1985-2007.

Professor Barker is an internationally recognized leader in the field of computational chemical kinetics and dynamics, with special expertise in atmospheric chemistry, chemical-dynamical modeling of elementary reactions, fundamental studies of molecular energy transfer, and master equation modeling. He played an instrumental role in the development of the MultiWell Program Suite software that utilizes statistical mechanics and reaction rate theory to calculate reaction rates and product yields in complex unimolecular reaction systems. He has a notable history of successfully securing research funding and has published numerous articles in the leading scholarly journals. Professor Barker, in collaboration with Louis J. Allamandola and A.G.G.M. Tielens, received the 1986 H. Julian Allen Award for his early contributions to the hypothesis that polycyclic aromatic hydrocarbon species are abundant in the interstellar medium and in the outflows from carbon-rich stars known as the PAH Hypothesis. He was the recipient of numerous honors including the Outstanding Achievement Award (2006) and two Excellence in Teaching Awards (1993, 1997) from the Department of Atmospheric, Oceanic and Space Sciences. Professor Barker is a member of the American Chemical Society, the American Geophysical Union, and the American Physical Society.

The Regents now salute this distinguished faculty member by naming **John R. Barker professor emeritus of atmospheric, oceanic and space sciences**.

Requested by:



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

May 2014