THE UNIVERSITY OF MICHIGAN

Regents Communication

ACTION REQUEST

Subject: **Report of Faculty Retirement**

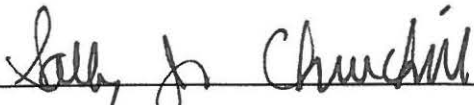**Action Requested:**   **Adoption of Retirement Memoir**

Jeffrey B. Rauch, Ph.D., professor of mathematics in the College of Literature, Science, and the Arts, retired from active faculty status on May 31, 2015.

Professor Rauch received his A.B. degree from Harvard University in 1967 and his Ph.D. degree from New York University in 1971. He joined the University of Michigan faculty as an assistant professor in 1971, and was promoted to associate professor in 1976, and professor in 1982. He served as chair of the Department of Mathematics from 1990-91 and 1997-98. Professor Rauch held visiting faculty appointments at the Università di Pisa; École Polytéchnique, Palaiseau; École Normale Supérieure, Paris; and Université de Paris Nord.

A renowned mathematician, Professor Rauch studied control for hyperbolic partial differential equations and nonlinear geometric optics. His work on hyperbolic partial differential equations, with Claude Bardos and Gilles Lebeau, generated new techniques and perspectives that have shifted the center of the subject and remain crucial central ideas. His co-created, with Jean-Luc Joly and Guy Métivier, rigorous theory in nonlinear geometric optics is now considered a "classical" tool. A prolific writer, Professor Rauch has published numerous research papers and five books. He served the University and mathematical community through numerous committees, administrative and editorial assignments, and chaired several external review committees for mathematics departments in European universities. A highly regarded teacher, Professor Rauch developed several applied mathematics courses, directed the studies of ten doctoral students, and was actively involved in the mentorship of students and postdoctoral mathematicians. He received the University's Excellence in Research Award in 1996 and was elected a fellow of the American Mathematical Society in 2012.

The Regents now salute this distinguished scholar by naming **Jeffrey B. Rauch, professor emeritus of mathematics.**

Requested by:

Sally J. Churchill

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

June 2015