

THE UNIVERSITY OF MICHIGAN

*Regents Communication*

**ACTION REQUEST**

**Subject: Report of Faculty Retirement**

**Action Requested: Adoption of Retirement Memoir**

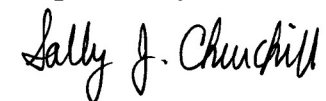
**Hugh L. Montgomery, Ph.D.**, professor of mathematics in the College of Literature, Science, and the Arts, retired from active faculty status on May 31, 2020.

Professor Montgomery received his B.S. degree from the University of Illinois in 1966. He received a Marshall Scholarship to study at the University of Cambridge in 1966, where he was elected a fellow of Trinity College in 1969 and earned his Ph.D. degree in pure mathematics in 1972. He joined the University of Michigan faculty as an assistant professor in 1972, and was promoted to associate professor in 1973, and professor in 1975.

Professor Montgomery's research was in number theory and harmonic analysis. He specialized in analytic number theory, with an emphasis on the distribution of prime numbers, the properties of the Riemann zeta function, and the distribution of its zeros. He was well known for his formulation of a pair correlation conjecture for Riemann zeta zeros and for developments of the large sieve method. His research outside number theory touched on Turán's power sums, irregularities of distribution, extremal properties of trigonometric polynomials, and analytic inequalities. Professor Montgomery has 98 scholarly publications, and authored or coauthored five books in the areas of number theory, harmonic analysis, multiplicative number theory, Fourier analysis, and the Riemann zeta function. His book *Ten Lectures on the Interface Between Analytic Number Theory and Harmonic Analysis* (1994) contains many beautiful examples of his work. He coauthored, with I. Niven and H.S. Zuckerman, *An Introduction to the Theory of Numbers* (5<sup>th</sup> edition, 1994), which has become a standard introductory text. Within the Department of Mathematics, Professor Montgomery was active in mentoring young mathematicians. He supervised 18 Ph.D. students, and provided academic and research assistance to many young postdoctoral faculty. Professor Montgomery served the department in many capacities over his career, most recently in the areas of academic advising, undergraduate scholarships, awards, and organizing undergraduate competitions and mathematical problem solving activities. He received a number of honors, including a research fellowship from the Alfred P. Sloan Foundation (1974-75, 1976-77), the Prix Salem from the French Mathematical Society (1974), and the Henry Russel Award from the University of Michigan in 1975.

The Regents now salute this distinguished scholar by naming **Hugh L. Montgomery, professor emeritus of mathematics**.

**Requested by:**



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

**May 2020**