Subject: **Report of Faculty Retirement**

Action Requested: **Adoption of Retirement Memoir**

John Stembridge, Professor of Mathematics in the College of Literature, Science, and the Arts, retires from active faculty status on June 1, 2020.

Professor Stembridge received his PhD in 1985 from the Massachusetts Institute of Technology, receiving a Sloan Predoctoral Fellowship his final year. He was a Hedrick Assistant Professor at the University of California, Los Angeles prior to joining the Michigan Mathematics faculty in 1988 as an assistant professor. He was named a professor in 1995. Professor Stembridge held numerous visiting appointments at prestigious institutions both nationally and internationally. His honors include a Presidential Young Investigator Award, a Guggenheim Fellowship, and a Sloan Research Fellowship.

Recognized as a leader in the field of algebraic combinatorics, Professor Stembridge has a special interest in representation theory, Coxeter groups, root systems, symmetric functions, and enumeration, as well as in computational problems that arise in these areas. In 2007, he was a member of an international team of 18 mathematicians and computer scientists who successfully mapped the Lie group E_8, one of the largest and most complicated structures in mathematics. The mapping of E_8 was a ground breaking achievement, significant both as an advance in basic knowledge, and as a major advance in the use of large scale computing to solve complicated mathematical problems. Professor Stembridge is part of the Atlas of Lie Groups and Representations project, whose goals are to understand, classify, and catalogue the representations of semisimple real and p-adic Lie groups, which involves challenging combinatorial and computational problems.

Within the Mathematics Department, Professor Stembridge is active in mentoring young mathematicians. He supervised eight PhD students, and served on the thesis committees of several other students. He has been a mentor to more than 16 postodctoral faculty. Professor Stembridge served many years on the Doctoral Committee, including a term as Doctoral Chair. He was Associate Chair for Regular Faculty from 2015-2017, and was a long serving member of the computer committee. He has held editorial board positions on numerous prestigious mathematics journals over his career, and has published over 66 research papers. Professor Stembridge is the author of several Maple software packages for the study of symmetric functions, posets (partially ordered sets), root systems, and finite Coxeter groups.

The Regents salute this distinguished scholar by naming **John Stembridge Professor Emeritus of Mathematics.**

Requested by:

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Vice President and Secretary of the University