

Resolution on the retirement of
Linfield C. Brown
Adopted by the Faculty of Arts, Sciences, and Engineering

Linfield Cutter Brown's association with Tufts began in 1960 when he began his studies towards a BS in Civil Engineering, received in 1964, followed by a MS in Environmental Health Engineering, received in 1966. At the end of his master's degree; and at the urging of his faculty mentor, Professor Bruce Hanes, Lin attended the University of Wisconsin-Madison and received a PhD in Sanitary Engineering. He then returned to Tufts to become a member of the CEE faculty in 1970 as an Assistant Professor. He achieved tenure and promotion to Associate Professor in 1975 and was promoted to Professor in 1981. From 1981 to 1992, he served as Chair of the department. He has also served as a member of the university's Tenure and Promotion committee from 1994 to 1997 and as a member of the university's Graduate School of Arts and Sciences Executive Committee from 1993 to 2000.

As a member of the CEE department, Professor Brown has been instrumental in the development of curriculum and research programs at both the graduate and undergraduate levels. He was founder and academic director of an innovative multi-disciplinary Masters program in Hazardous Materials Management (HMM). He also played a key role in the development of the Environmental Science and Management Fellows program, a graduate program in environmental engineering and science aimed at recruiting and retaining under-represented groups in these fields. He was the force behind the development and implementation of the Bachelor of Science in Environmental Engineering degree in 1996, a degree program that has had 75 graduates to-date.

He has taught a variety of graduate and undergraduate courses in environmental engineering, including environmental process design and modeling, water chemistry, engineering probability and statistics, hydrology, and industrial waste treatment. He has been the instructor for his primary course, Probability and Statistics for Engineers, for almost 35 years. Lin is also co-author of *Statistics for Environmental Engineers*, a book to help environmental engineers and scientists better understand and design systems for environmental protection through the use of statistics.

Lin's research contributions have led to significant innovations in a number of areas. For example, in the early 1980's Lin was instrumental in developing the Enhanced Stream Water Quality Model computer program (QUAL2E), which simulates the major reactions of nutrient cycles, algal production, benthic and carbonaceous demand, atmospheric re-aeration and their effects on the dissolved oxygen balance. In addition, he is the author of over 50 technical papers and reports, and has worked internationally on water quality modeling and control. Lin has advised the research of numerous graduate students in the department. He had a long running relationship with the National Council for Air and Stream Improvement (NCASI), initially as a NCASI-supported research assistant, and continuing as a research advisor on numerous NCASI-supported projects.

His consulting experience is focused in the areas of environmental statistics and water quality modeling, and includes evaluation of regulatory control strategies. He has conducted a number of workshops on topics such as experimental data measurement and interpretation, water quality modeling, and environmental statistics. While many of these workshops were conducted nationally, he has also worked internationally in locations such as Spain, Poland, England, and Hungary. He is also a member of a number of professional societies including the American Society of Civil Engineers; Boston Society of Civil Engineers Section, ASCE; Water Environment Federation; American Water Works Association; Association of Environmental Engineering and Science Professors; and the International Water Association.

However, Lin's greatest impact and influence has been on student's lives. This is evident throughout his career; from his receipt of Tufts' Liebner Award for excellence in teaching and advising to his current role as academic adviser to Tufts chapter of Tau Beta Pi, the engineering honor society. He has advised student groups in senior capstone design projects as well as student teams participating in international environmental design competitions sponsored by the Waste-management and Environmental Research Consortium in New Mexico.

It has been an honor to have had Professor Brown as a member of the Civil and Environmental Engineering faculty. His exemplary and remarkable career in teaching, research, advising, and service to the department, School, and University clearly show his dedication to Tufts. However, no description of Lin's contribution to the Tufts community can ignore his immediate family; wife Roberta, son Chris, and daughter Sara. Both Chris and Sara obtained their undergraduate degrees from Tufts, continuing the Brown legacy of Tufts alum. Roberta, a teacher in the Medford school system, will be retiring at the end of this school year as well. Thus, both Lin and Roberta will be able to enjoy pursuit of their many areas of interest at their leisure.

On behalf of the committee, I move that this resolution on the retirement of Linfield Cutter Brown be spread on the permanent record of this faculty and that copies of it be sent to him, his family.