

Association of Professional Engineers

of the
Province of Manitoba

Merit Award

to

ANDREW BARACOS

B.Sc., M.Sc. C.E., P.Eng.

Professor Andrew Baracos graduated from the University of Alberta in 1949 and joined the University of Manitoba as a Sessional Lecturer. During his career at the University spanning thirty-nine years Andrew served as Lecturer, Professor, Acting Head of Civil Engineering and Head of Geological Engineering.

During his career Andrew has been extremely committed to the pioneering of Soil Mechanics in Manitoba. He has accomplished many pioneering achievements and is recognized as the father of Soil Mechanics. Andrew was the first geotechnical engineer at the University of Manitoba (1949) to set up the Post-Graduate Courses at the University of Manitoba: to apply Soil Mechanics principles to the construction of embankments in Manitoba; to promote the use of effective stress analyses for bearing capacity and slope stability in Manitoba. He is a pioneer in the research of the feasibility of flat slab construction for housing in Winnipeg; first to quantify shape factors for the determination of bearing capacities in Manitoba; first to relate vertical heave of clay in Winnipeg with climatic conditions and one of the first to investigate the effects of clays on cast iron pipe in Manitoba. His 1957 paper "The Foundation Failure of the Transcona Elevator" is a textbook example, and is used internationally as well as in some text books on soil mechanics. He initiated the preparation of the "Geological Engineering Maps and Reports for Urban Development of Winnipeg".

Andrew has been active in a number of professional and community activities over the years including being the founding member and president of the Winnipeg Geotechnical Society, the Manitoba contact for the National Research Council, president of a group instrumental in establishing a Greek Orthodox Church in Winnipeg, and chairperson of a Greek service organization.

Andrew and his wife Mary have three children, Paul, Vickie, and Theodore.

In awarding Andrew Baracos the A.P.E.M. Merit Award the Association acknowledges his significant contributions as an engineer and an outstanding member of the community.

October 28, 1988