Association of Professional Engineers

of the

Province of Manitoba

Merit Award

to

ROBERT WILLIAM MENZIES

B.Eng. (Elec.), Ph.D., P.Eng.

Robert William Menzies was born in Ontario and took his B.Eng. degree (Magna cum laude) at McMaster University in Hamilton in 1964. He received an Athlone Fellowship and NRC Special Scholarship to further his studies at the University of St. Andrews in Scotland where he completed his Ph.D. in 1967. At that time he joined the Department of Electrical Engineering at The University of Manitoba where he was successively Assistant, Associate and full Professor (in 1980). He was twice Acting Head of the Department in 1977 and 1979-80. He was an NRC Senior Industrial Fellow located in the Motor Division of Westinghouse Canada in 1972-73 and a Design Engineer with Brown Boveri in Switzerland in 1977. He has held consultancies with Dickenson Mines, Bristol Aerospace Limited and on AECL projects.

Dr. Menzies' research and teaching interests lie in the field of electrical machine design, in particular reluctance motors, and theory and operation of power systems and components. He is the author of over thirty journal and conference papers and numerous industrial reports on such topics as induction motor optimization, permanent magnet alternators, thyristor-controlled locomotives and variable speed pump and fan drives. He holds four Canadian and U.S. patents and shares patent applications in Switzerland, Germany and Sweden. He has received grants from NSERC, Manitoba Hydro and Manitoba Economic Development totalling almost half a million dollars over the past fifteen years and shared substantial additional contracts from Bristol Aerospace, the Canadian Electrical Association and the HVDC Research Centre.

He has been a member and held office in the IEE (U.K.), the IEEE (with recent service as Chairman of the Winnipeg Chapter of the Power Engineering Society). He has served the Association on the Membership Committee and the Board of Examiners. He is an Associate Member of the CEA. Latterly, he has participated in organizing major conferences in Winnipeg, notably the International Conference on Integrated AC-DC Systems and MICONEX '82 and '83.

For his outstanding contributions to research and scholarly activities and for his pioneering achievements in the fields of motor design and control and systems applications, the Association's Merit Award is conferred on Robert William Menzies.

October 28, 1983