

Association of Professional Engineers
of the
Province of Manitoba

Merit Award

to

DANIEL CHARLES HOLMES PROWSE

B.Sc.E.E., P.Eng.

Daniel Charles Holmes Prowse received his Bachelor of Science degree and the Gold Medal in Electrical Engineering at the University of Manitoba in 1971. He served a one-year apprenticeship at Ontario Hydro and an additional two years with AECL in Mississauga, Ontario before returning to Winnipeg in 1974, to embark on his career with Manitoba Hydro.

Dan served Manitoba Hydro for twelve years as a Project Engineer with the Engineering and Construction Division, before becoming a Senior Design Specialist (his current position) in 1986. During the first five years of his employment, he carried overall responsibility for the implementation of Manitoba Hydro's seven-million-dollar Dispatch Office computer control system. Intended for the daily operation of the entire Manitoba Hydro system, including energy transactions with other provinces and with the United States, it also comprised operator advisory programmes for the safe operation of the Nelson River HVDC transmission system and monitoring alarm software for the supporting telecommunications network.

From 1979 to 1987, Dan was responsible for changing and upgrading this system. During this period, the number of control consoles was doubled, remote control terminal units were added, and operator advisory programmes for energy conservation were implemented. During this period also, Dan developed two innovative, low-cost methods for reducing energy losses during generation and HVDC transmission. These innovations have resulted in a saving to Manitoba Hydro of \$1.4 to \$2.0 million annually. In 1989, Dan was selected to present a CIDA seminar on the economic operation of hydro generating stations in Beijing, China.

Dan has been active in a number of professional and community activities over the years. A Sunday School teacher and onetime assistant soccer coach, he has served as Chairman of a subsection of the Canadian Electrical Association, as President of Manitoba Hydro's Professional Engineers Association, as a member of APEM's Salary Research and Centennial Committees, and as Chairman of APEM's Public Relations Committee.

Dan and his wife, Viola, have five children: three boys and two girls, ranging in age from the junior high school level to the cradle. In awarding the Merit award to Dan Prowse, the Association acknowledges his significant contributions to both the engineering profession and the community.

October 26, 1990