Association of Professional Engineers

of the

Province of Manitoba

Merit Award

to

LOTFOLLAH SHAFAI

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

Lotfollah Shafai was born in Iran and completed his B.Sc. degree at the University of Tehran in 1963. From 1964 to 1969 he was a graduate student in the Electrical Engineering Department at the University of Toronto, where he completed his M.Sc. degree in 1966 and his Ph.D. degree in 1969. Since then he has been with the Department of Electrical Engineering at the University of Manitoba, starting as a sessional lecturer and becoming a full professor in 1979. Between July 1976 and January 1977 he was a visiting scientist at the Communication Research Centre in Ottawa, where he designed the antenna system for the ground stations of the Hermes Satellite. From January to July 1977 he was a visiting professor in the Electromagnetics Institute of the Technical University of Denmark and worked toward computer modelling of corrugated feeds for the European Space Agency.

Dr. Shafai's research and teaching interests lie in the fields of applied electromagnetics, application of numerical techniques to field problems, computer-aided design techniques and antenna, in particular, satellite communication antennas. He is the author of seventy-seven journal papers, sixty-one conference proceedings and twenty-five research and industrial reports for the government and industry. He holds one Canadian patent and shares several patent applications with his colleagues. He has received grants from NSERC and from the University of Manitoba, totalling about one and a half million dollars, and research contracts from the government and industry, totalling over six hundred thousand dollars, over the past fifteen years. He also developed international cooperation through NATO grants and inter-university research cooperations with universities in Denmark, Norway, the United Kingdom, the United States and Japan.

He is a senior member of the IEEE, a member of the International Union of Radio and Science (URSI), and was recently elected as a Vice-Chairman of Commission B. For the period of 1979-1982, he was a member of the NSERC Grant Selection Committee and served as its Chairman from 1981-1982. In 1982 he served as a member of the NSERC Study Group for Engineering Research at Canadian Universities and in 1982-1983 as a member of the NSERC Advisory Panel on Communications. Currently, he is a member of the NSERC Advisory Panel on Communications and Computers.

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