



The Engineering Institute of Canada

Fellow Citation - 2003

Dr. Frederick N. Trofimenkoff – A Member of IEEE Canada

Dr. Trofimenkoff graduated in engineering physics from the University of Saskatchewan and obtained a Masters degree in Physics from the same university. Subsequently he was granted a PhD in electrical engineering from the University of London and a Diploma of Membership from Imperial College. He is currently Professor Emeritus of Electrical and Computer Engineering at the University of Calgary.

Dr. Trofimenkoff joined the faculty of electrical engineering at the University of Saskatchewan for a number of years, and then moved to Calgary to found a similar department there. Subsequently he was head of this department for 10 years, while teaching at the undergraduate and graduate level. He also participated in numerous committees, and in professional organizations at the local, provincial and national levels for many years.

He has carried out pioneering research in the area of semiconductor physics, and in high temperature instrumentation and electromagnetic wave propagation for geophysical prospecting. He has published extensively and his work has had a significant impact on industry, where he holds eight patents with two others in progress. Much of this technology has been licensed to industry, which has generated significant royalty income to the University of Calgary, and to the researchers involved. The patents have been wide ranging with a number for use in the oil industry for down-hole instrumentation and telemetry applications, for voltage frequency conversion and other innovative uses. One very practical invention, especially for Canadian purposes, is a skate-sharpening device currently in production.

It is abundantly clear that Dr. Trofimenkoff's talents cover a broad base, as a researcher and scientist, a teacher and administrator, a consultant to industry, and in the support of the University of Calgary by the conversion of his ideas to practical, patented devices for industrial purposes.

Mr. President – I present now, a Fellow of the EIC - Dr. Frederick N. Trofimenkoff