

## **BIOGRAPHICAL NOTE**

### **Chun Loo**

He received a Bachelor of Engineering degree in electrical engineering from McGill University, Montreal, P. Q. in 1962, a Masters of Science degree in electrical engineering from University of Ottawa, Ontario in 1966, and is a senior member of IEEE.

From 1962 to 1965, he was employed by Computing Devices of Canada, Ottawa, where he participated in the development of avionic equipment.

He was with Northern Electric R&D Labs ( Bell Northern Research, now Nortel) from 1966 to 1970, where he was engaged in the theoretical studies of FM distortion, FM threshold characteristics and in computer simulation of communications systems.

Since 1970, he has been with the Communications Research Centre, Industry Canada (formally Department of Communications), as a research scientist. He has done systems analysis under the CTS (Hermes) project, a fore-runner of direct broadcast satellite, and the ANIK B Pilot. He is the author of several papers relating to FM and digital transmission through a nonlinear satellite channel and on modelling of the land mobile satellite link. He developed a statistical model for the land mobile satellite channel which is widely in use by the research community world wide. He has done systems studies on various modulation schemes for land mobile satellite communications applicable to the MSAT Program.

He is currently a senior research scientist, conducting advanced system studies for future satellite communications, particularly, on satellite "on board" processing and on characterization of the Ka Band satellite communication channel. He is a principal investigator on the Project of "on board" processing techniques and technologies under a Major Project on Broadband Satellite Communications of the Canadian Institute for Telecommunications Research.

Mr. Loo is a member of the Professional Engineers of Ontario, Canada.