



Issac Koga (1899–1982)

A native of Saga Prefecture, Japan, Issac Koga graduated from the University of Tokyo and was employed as a professor at Tokyo Institute of Technology and the University of Tokyo. His education and research were in the area of electronics and communications. Dr. Koga is known as the inventor of temperature-insensitive quartz cutting (R1-cut). He applied the R1-cut plate to wireless communications and quartz clocks. His achievement drastically stabilized the frequency of oscillators used in communication and clocks for time standards. In 1963, Professor Koga was awarded the Order of Cultural Merit. He also contributed to the activities of URSI and was elected president in 1963. He became a member of the Japan Academy in 1971.