



The professional experience of Håkan Källgren (HK), a short summary

After a short employment period at the ERICSON company in 1968, HK changed to the field of Metrology and has since then gathered **40 years of experience in Metrology.**

On 2 May 1969 HK started his Metrology career by working with **calibration**, specifically length tapes and weights and with verification of weighing instruments, petrol pumps and measurements of storage tanks.

During the following years, HK broadened his experience within several other Metrology fields.

HK was appointed "Head of mass" (**Manager**) at the Swedish Technical Institute, SP, from 1981. From a small group of 4 persons the work force increased to 15 people.

In 2000 HK went back to technical work, mainly **consulting, training and conformity assessment** activities.

HK has been involved in the **Euromet** (started in 1988 and now named EURAMET) in the mass field from the start, representing Sweden in cooperation with Professor Leslie Pendrill, who is now the Chairperson of the Board of Directors in **EURAMET**.

In 1993, HK was involved in **Conformity assessment activities** since the implementation of the Non-automatic Weighing Instruments (Directive 90/384/EEC) Directive and the starting of **WELMEC** (WELMEC is a cooperation among mainly Notified Bodies in close cooperation with the Commission in EU).

Recently HK has been involved in the establishment of and the implementation of the Measurement Instruments Directive, **MID**. HK also has some experience in old approach Directives.

HK has established the **Certification scheme for prepackages** in Sweden that implements the related EU-directives.

HK has been involved in Swedish **accreditation** matters together with the Swedish Board for Accreditation and Conformity Assessment (SWEDAC) since the start of the accreditation of laboratories in Sweden in 1983. HK has been using the previous standards EN 45001 and 45004 that have now been transferred to the **ISO/IEC 17025** and **ISO/IEC 17020**

HK has been involved in **Intercomparisons and Proficiency Testing** in the mass field within Euramet and locally in Sweden for SWEDAC. The company Swedish Metrology and Quality, **SMQ**, operates at the moment a program for fast bilateral comparisons.

International Training has been organized by HK in the framework of SP or in cooperation with different sponsors for trainees from more than 60 countries. Many of these trainings have been addressing the role of Metrology in Technical Barriers for trade, **TBT** and the relation between NMI: s and industrial Metrology.

HK **has acquired knowledge and experience of different cultures** from business visits to 38 countries and especially to Tanzania and Zambia where different cultures and religions exist together. Amman in Jordan has been one of the places for short training visits where HK has been lecturing about Metrology in the National Institute.

HK has been involved in **Public Relation activities** such as Conferences and awareness activities of different kinds. He has for example been interviewed in Swedish TV and radio, especially concerning metrology in general and Mass Metrology in particular. HK has for example been seen in ZAMBIAN television together with the former President Kenneth Kaunda, telling about a Metrology project.

HK established his company Swedish Metrology and Quality AB (SMQ) on March 1, 2009 focusing on international projects using his 40 years of experience.