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Frans studied physics in Eindhoven, then joined Philips Medical Systems where he became systems engineer of the CT-development group (Tomoscan 300/350)[1974-1978]. Thereafter he became CT application specialist and later clinical scientist. [1978-2002]. In that function he worked part time in the Utrecht Academic Hospital where he started clinical research in the field of high-resolution CT in head- and neck radiology. This led to his PhD in 1987. In 1991 he was appointed professor of medical imaging technology at the Utrecht university. He retired in 2006 and joined the Historical Committee of the Dutch Radiological Society in 2011. Since 2015 he is active in building up the Centre for Radiological Heritage which is part of the Dutch Centre for Medical History.

Presents:

Early evolution of Computed Tomography; from neuro- to head & neck CT

Since the introduction of the EMI Mark I CT-scanner in 1972 which was primarily used for neuro investigations of the head, there was a rapid introduction of new scanner generations over the subsequent decade which resulted in a dramatic improvement of spatial resolution (both within the slice as well as perpendicular to it) and temporal resolution that led to many new applications such as detailed imaging of the temporal bone and orbit in head- and neck radiology. At the same time the application field widened from the head only to the entire body. This presentation will discuss the improvements that were realized within this short period of time in the evolution of Computed Tomography, a development that could not be predicted at the moment CT was introduced.