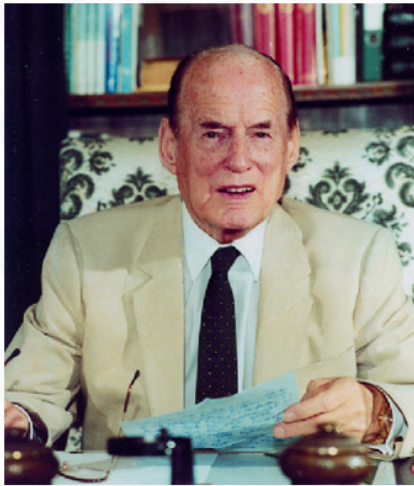


**Tradition in Science,
Engineering and
Medicine**



Prof. Manfred von Ardenne
*1907 - † 1997

- 1931 World premiere of fully electronic television
- 1934 Electronic spectral photometer
- 1934 Invention of night vision device (image converter)
- 1937 Invention of scanning electron microscope of high resolution
- 1939 Universal electron microscope of high resolution
- 1957 Swallow-able intestinal transmitter, signaling pressure and pH
- 1962 Operating room with electronic patient supervision
- 1965 Two-chamber bathtub for extreme whole-body hyperthermia
- 1966 Heat exchanger for extracorporeal hyperthermia for regional perfusion
- 1967 Sensibilization of tumor cells against hyperthermia via over-acidification
- 1970 systemic Cancer Multistep Therapy (sCMT)
- 1972 Oxygen Multistep Therapy (O₂MT)
27 MHz high-frequency hyperthermia
- 1978 with systemic and added local application
- 1987 Whole-body hyperthermia with water-filtered infrared-A radiation (IRATHERM[®]-principle)
- 1992 IRATHERM[®]2000 for extreme whole-body hyperthermia (until 42.5 °C)
- 1994 IRATHERM[®]1000 for mild and moderate whole-body hyperthermia (up to 40.5 °C)
- 2003 IRAcom[®] monitoring for mild and moderate whole-body hyperthermia
- 2011 IRABoard for the multivariant use of IRATHERM[®]1000 as a patient couch
- 2017 IRAsoft software for mild and moderate whole-body hyperthermia

