

# Publications and Biography

## Sune Axelsson

Sune R. J. Axelsson was born on June 24, 1940 at Torbjörnshult, Härlunda. He received the M.S. degree in electrical engineering from Chalmers University of Technology, Göteborg, Sweden, in 1965, and the LicEng and PhD degrees from the Royal Institute of Technology, Stockholm, Sweden, in 1970 and 1975.

In 1965, he joined Saab-Scania, Linköping, where he has been engaged in radar sensor development, signal analysis, and remote sensing. He was responsible for planning and evaluation of two experiments on the Baltic Sea (1972 and 1974), studying how different airborne sensors map oil spills. He also made preliminary studies of airborne surveillance systems for patrolling the coastline, which later came into use and are still operating.

In 1976, he was appointed Docent at the Royal Institute of Technology, Stockholm, Sweden. During the period 1983–1995, he was an Adjunct Professor of Remote Sensing at Linköping University with financial support from the Swedish National Space Board.

He was appointed Technical Fellow in Sensor Theory at Saab Dynamics in 1995, and was an Adjunct Research Director at the Swedish Defence Research Agency in Linköping from 1990 to 2006. He was elected (1983) into The Swedish National Committee for Radio Science (RVK) and later also for a period in the international IEEE Prize Committee, which awards the best articles of the year.

His research interests have included frequency modulated continuous-wave radar (FMCW), radar altimetry and height profiling, modeling of thermal emission and ground surface temperature, remote sensing of oil spills, microwave backscattering of terrain backgrounds, synthetic aperture radar including 3D-SAR and curved paths. More recently, he did pioneering work on the theory of random noise radar, analyzing the effects of low-bit ADC, phase/frequency modulation by noise and random step frequency radar including sodar experiments. He holds five patents and is the author of over one hundred scientific articles; eleven of them published in IEEE journals.

Sune Axelsson has also written a great number of poems, essays, short stories and is represented in some lyric anthologies. His first poetry book was published in 2009, *Skärvor ur då (Fragments from the past)*, and reflects early memories from his childhood. The second one came in 2010, *Kajorna i Toulouse (The jackdaws in Toulouse)*, and includes 48 sonnets. His book from 2011, *Vår resa i tiden (Our travel in time)*, is a collection of short essays and humoresques. His third poetry collection: *Fågelskrift (Bird scripts)* and *Bokens väg till läsaren och biblioteken (The book's path to the reader and libraries)* were both published in 2012, and in 2014 came *Lust och lidande (Passion and Suffering)* a collection of Short Stories, and his fourth poetry book: *Tankebubblor (Bubbling thoughts)*. He is elected member of The Swedish Writers' Union (SFF).

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