Daan Lenstra

Daan Lenstra (Amsterdam, 1947) received the M.Sc. degree (Cum Laude) in theoretical physics from the University of Groningen and the Ph.D. degree from Delft University of Technology. His thesis work was on polarization effects in gas lasers.

Since 1979 he researched topics in quantum electronics, quantum optics and condensed matter physics, i.e. photon statistics in resonance fluorescence (1982-1983), coherent electron transport (1980-1990), resonant tunneling (1986-1991), semiconductor diode lasers (1983-present), nonlinear dynamics in optical systems (1991-present), analogies between optics and microelectronics (1988-1992), optical phase conjugation (1988-2000), near-field optics and plasmonics (2000-2006), and all-optical ultrafast signal processing (2001-2006).

Daan Lenstra was associate professor at Delft University of Technology (1979-1984) and Eindhoven University of Technology (1984-1991). He was part-time professor at the University of Leiden (1989-1991) and took a chair professor position in theoretical quantum electronics at the Vrije Universiteit in Amsterdam from 1991 until 2006. During 2000-2002 Daan Lenstra has been a part-time guest professor at the COBRA Research Institute, Eindhoven University of Technology, and during 2002-2006 he was appointed part-time (0.5) Professor of Ultrafast Photonics at the same institute. He was Scientific Director of COBRA from 2004 to 2006. From November 1st, 2006 till November 1st, 2010 he was the Dean of the Faculty Electrical Engineering, Mathematics and Computer Science at Delft University of Technology.

With his group, Daan Lenstra, researched topics in nonlinear dynamics in optical systems, especially semiconductor lasers, quantum electrodynamical theory and modelling of semiconductor structures, generation of short pulses in semiconductor lasers, polarization effects in semiconductor lasers and amplifiers, near-field optics, plasmonics and all-optical ultrafast signal processing. He (co)authored more than 350 publications in international scientific journals and conference proceedings. He (co)edited 9 books.