Willem Hundsdorfer's role and research in the Multiscale Dynamics group at CWI

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This talk gives a brief overview of Willem Hundsdorfer's role and research in the Multiscale Dynamics group at CWI (Centrum Wiskunde & Informatica), Amsterdam. Having joined CWI in 1984, he was part of the Multiscale Dynamics group since 2002. Teamed up with Ute Ebert, Willem brought in the numerical expertise to develop numerical models of electric discharges. An important contribution was for example the use of adaptive mesh refinement for solving advection-diffusion-reaction as well as elliptic equations. With his students, Willem also worked on multirate time-stepping techniques for stiff ODEs and PDEs and on monotonicity preserving schemes.