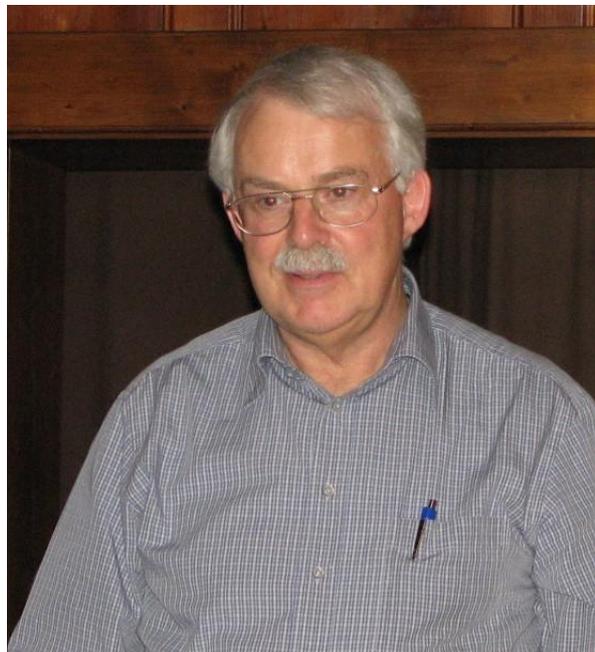




Obituary for Mr Rainer Höschen



31 March 2021

Mr Rainer Höschen passed away in Sindelfingen on 17 March 2021 at the age of 77.

Mr Höschen was born in Neisse in Upper Silesia in 1944. He completed an apprenticeship as a metal aircraft builder in Einswarden/Nordenham. He then worked at the Fritz Haber Institute in Berlin-Dahlem under Professor Ernst Ruska and in 1986 moved to the Max Planck Institute for Metals Research in Stuttgart. At these two places, he laid important and innovative foundations for the further technical development of electron microscopy. He also contributed his knowledge to the development of commercial equipment, and thus made a decisive contribution to improving the resolving power of modern electron microscopes.

After moving to Stuttgart, he was responsible for setting up the JEOL ARM1250 high-voltage microscope. With the help of a sophisticated high-voltage stabilisation system, it was possible to penetrate the sub-Angstrom range for the first time. In order to achieve this resolution at high and low temperatures, he developed a very effective drift compensation system. He was also involved in the development of a level control system for air-suspended foundations. During the construction, Mr Höschen was always on site and lent a hand in many places himself. It remains unforgotten, how he prepared and measured the foundation for the 6 foot plates of the supporting pillars and almost ruined his knees. This is just one of many examples of Mr Höschen's extraordinary commitment.

Mr Höschen was also significantly involved in the development of the SESAM instrument by the Zeiss company. For example, he advised Zeiss on the development of the supply for the Mandoline filter, which was integrated into the SESAM. After his retirement, Mr Höschen worked regularly for many years in Heidelberg at CEOS as a consultant, discussion partner and provider of ideas in the development of highly stable current and voltage supplies. Through his collaboration with CEOS, it was possible to realise a highly stable power supply for the C/C_s

corrector for the TEAM project. This power supply was then also used as an improved supply for the Mandoline filter at the Max Planck Institute. With his continuous contributions, a steady improvement of the current and voltage supplies and thus an improvement of the resolution was achieved. His advisory work contributed to the fact that his enormous knowledge in analogue circuit technology can now be passed on to future generations. Even after his retirement in 2009, Mr Höschen accompanied the further development of the Stuttgart Center for Electron Microscopy with his valuable advice.

Mr Höschen's expertise is expressed in the authorship of 13 scientific publications. In 2009, he was awarded the Technology Prize by the German Society for Electron Microscopy (DGE).

After all, Mr Höschen would never have put all these honours in the spotlight. He was a thoroughly modest person, who always gave his help unselfishly. His Christian faith was always a great support to him, certainly also in the difficult weeks and months before his death. Rainer Höschen liked to be surrounded by a multitude of measuring instruments, but we know that the environment of his family, with his wife, children and grandchildren, as well as his circle of friends were decisive supports in his life.

With Mr Rainer Höschen, we are losing a valued colleague, on whom we could always rely. We will miss him very much, but he will always remain a role model for us in his way.

Our deepest sympathy goes above all to his wife and family.

Wilfried Sigle, Max Haider, Peter van Aken