

Outstanding Contributions Over the Last 50 Years

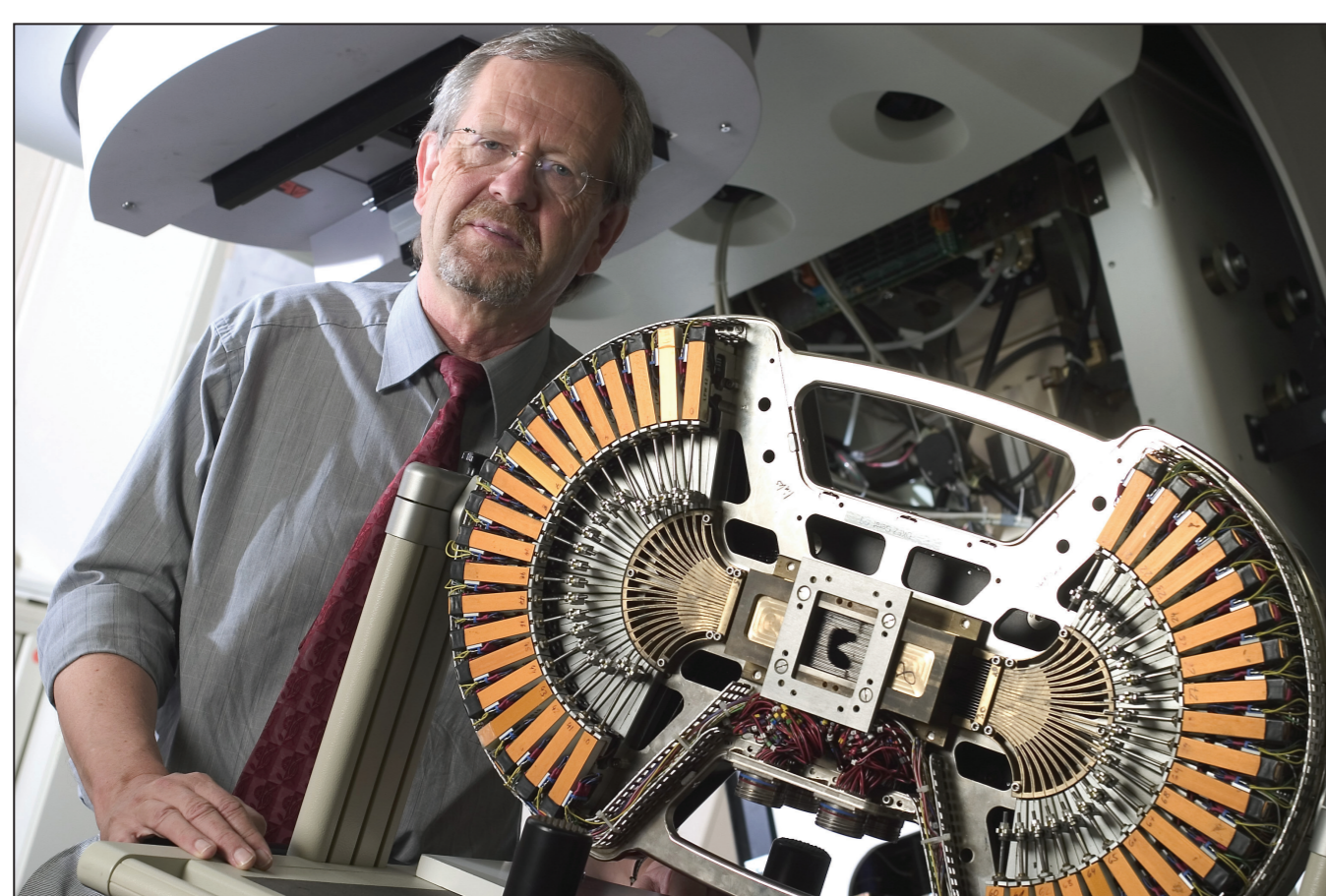
50 Years
of IOMP



1963-2013

Wolfgang Schlegel

Wolfgang Schlegel is known for his pioneering work in radiotherapy physics. Under his leadership new technologies for radiotherapy were developed, which significantly enhanced the precision and effectiveness of cancer treatment with ionizing radiation. Wolfgang Schlegel studied Physics in Berlin and Heidelberg and was a graduate student at the Max-Planck-Institute for Nuclear Physics in Heidelberg where he graduated in 1970 and received the Ph.D. (Dr. rer. nat.) in 1972.



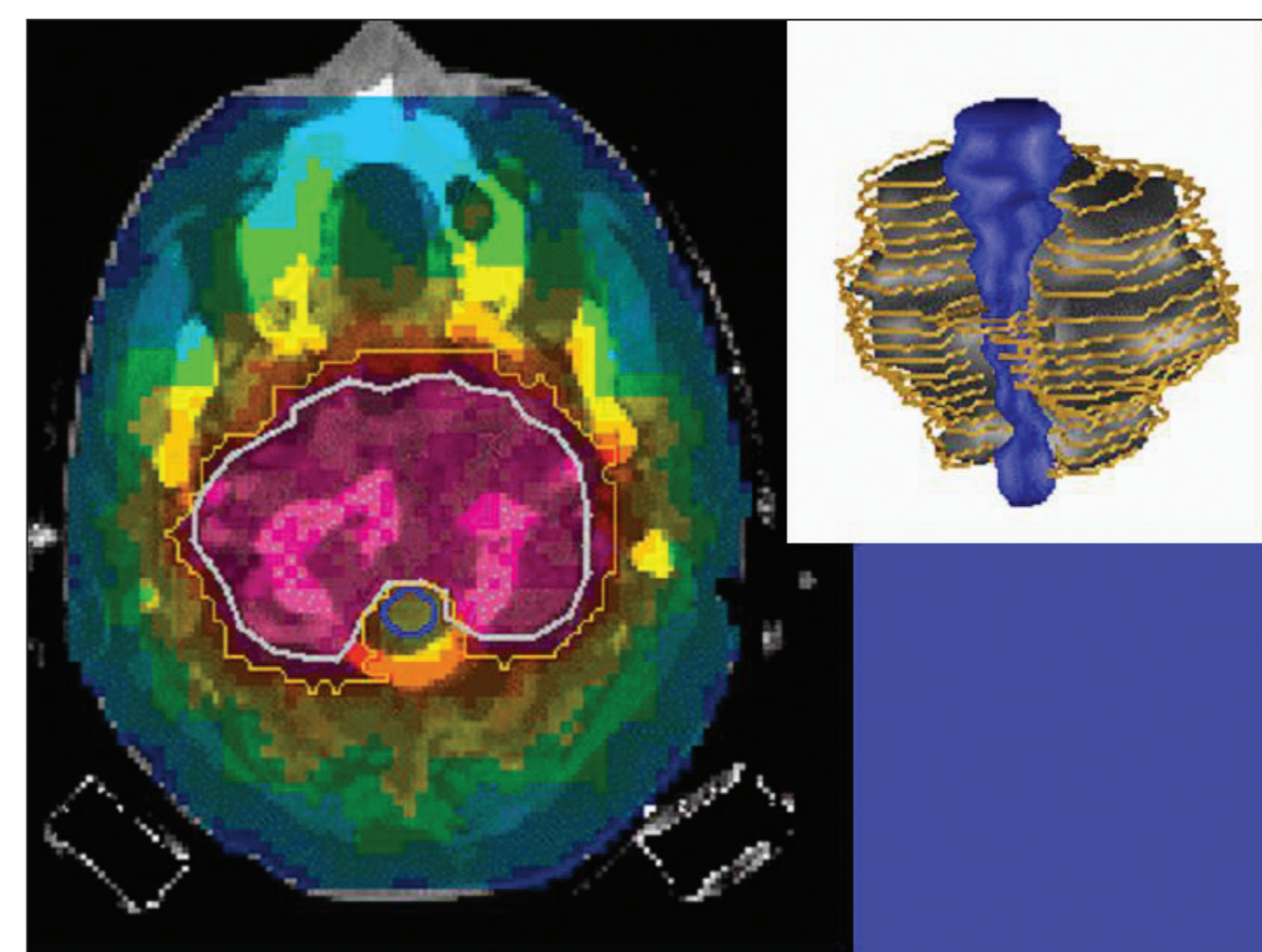
Wolfgang Schlegel with the „Micro-Multi-Leaf Collimator“, which was developed by his group for applications in conformal stereotactic radiotherapy and radiosurgery.

Wolfgang Schlegel's occupational career as a Medical Physicist started in 1973 when he became a Research Associate at the German Cancer Research Center (DKFZ) in Heidelberg. The University of Berlin appointed him to a professorship in Medical Physics in 1988. In 1993 he became a Professor of Medical Physics at the University of Heidelberg and the Head of the Department "Medical Physics in Radiotherapy" at the DKFZ.

His research covers important fields of radiotherapy physics and technology, such as 3D treatment planning, stereotactic radiosurgery, 3D conformal radiotherapy, intensity modulated radiotherapy (IMRT), image guided radiotherapy (IGRT) and ion therapy. The developments of his department initiated a breakthrough in radiotherapy concerning precision and conformality of dose delivery. By combining basic research and translation, the Heidelberg group belongs to those groups performing groundbreaking achievements in 3D treatment planning, radiosurgery of brain tumours, 3D conformal radiotherapy with Multi-Leaf-Collimators and IMRT. Recently his department was instrumental in establishing the "Heidelberg Ion Therapy facility" (HIT) as the first European Ion therapy unit.

Not only as a researcher, Wolfgang Schlegel also distinguished himself as an academic teacher and promoter of education in Medical Physics. He supervised more than 200 diploma-, masters- and PhD-theses in Medical Physics. He established the postgraduate further education programme "Medical Physics" at the University of Heidelberg, the on-line Masters programme "Advanced Physical Methods in Radiotherapy" (APMR) and the Masters programme "Clinical Medical Physics" which recently started as a collaboration between the Pontefica Universidad Catolica/Santiago de Chile (PUC) and the University of Heidelberg.

Wolfgang Schlegel is awardee of numerous scientific prizes: In 1996, he received the "Karl-Heinz Beckurts Award" of the German Ministry of Research and Education for successful technology transfer, he was nominated for the "Future-Award of the German President" in 2001, he received the "German Cancer Award 2003", the "Glocker Medal 2010" of the German Medical Physics Society (DGMP) for his lifelong achievements in Medical Physics and he became a honorary member of the German Society of Radiation Oncology (DEGRO) in 2013.



2D- and 3D-IMRT plan for a chordoma patient (one of the first patients to be treated with IMRT at DKFZ in 1998).