



Contents lists available at ScienceDirect

International Journal of Mass Spectrometry

journal homepage: www.elsevier.com/locate/ijms

Editorial

In honour of Hans-Joachim Dietze on his 75th birthday

This special issue "Bioinorganic Mass Spectrometry, Elemental Imaging and Metallomics" is dedicated to Dr. habil. Hans-Joachim Dietze who has decisively influenced the development of solid state and fundamental mass spectrometry during four decades.

Hans Joachim Dietze studied physics at University of Leipzig; Diplom in 1960, Ph.D. on mass spectrometry in 1967 at University in Halle, Habilitation on ultrasensitive mass spectrometry in 1988 at University in Leipzig. He designed, and constructed spark and laser ionization source mass spectrometers with Mattauch–Herzog geometry (SSMS and LIMS) in the sixties and seventies and applied these spark and laser induced mass spectrometric techniques in materials research, geology and for fundamental studies. Extensive studies were performed also on the clarification of ionization mechanisms in laser plasmas, the formation of multiply charged atomic and molecular ions, and on the influence of electric fields on ion formation.

Hans-Joachim Dietze's outstanding work received special recognition by his appointment as head of the Central Department of Analytical Chemistry (ZCH) at Forschungszentrum Jülich (FZJ) in 1991. Until his retirement in 2000 he encouraged especially the development of mass spectrometric techniques for elemental, isotopic and surface analysis, (SIMS, SNMS, GDMS, LA-ICP-MS and ICP-MS) for future research work in materials research and life sciences. In addition to a monograph – an important textbook in solid-state mass spectrometry entitled "Mass Spectroscopic Trace Analysis" – Hans-Joachim Dietze authored more than 200 publications, which is an expression of his enthusiastic and pioneering research work of inorganic mass spectrometry spanning four decades. He has, furthermore, passed on his well-grounded and profound knowledge to numerous undergraduates, PhD students, and young foreign scientists.

His scientific work was honoured by election to fellow membership of the IUPAC Commission on Atomic Weights and Isotopic Abundances in 1988. In 1990 Hans-Joachim Dietze was elected to the Scientific Advisory Council of the Mass Spectrometry Working Group (AGMS) and in 1995 he became a member of its Executive Committee. In this function, he was involved in founding the German Society for Mass Spectrometry (DGMS) as the successor to the AGMS and in 1998 he was elected to the Executive Council. He is an elected member of the Mattauch–Herzog Award (DGMS – German Society for Mass Spectrometry) jury.

Hans-Joachim Dietze's significant contributions to fundamental and applied science and to the fusion of mass spectrometry societies during the German reunion resulted in the Medal of Honour of the DGMS during the 43rd annual meeting in 2010.

With this special issue "Bioinorganic Mass Spectrometry, Elemental Imaging and Metallomics" of the International Journal of Mass Spectrometry the international community congratulates Hans-Joachim Dietze on his 75th birthday and wishes him all the very best, primarily continuing good health for many scientific and private activities.

J. Sabine Becker*

BrainMet Laboratory, Central Division of Analytical Chemistry, Forschungszentrum Jülich, D-52425 Jülich, Germany

*Tel.: +49 2461 612698; fax: +49 2461 612560.

E-mail address: s.becker@fz-juelich.de

URL: <http://www.brainmet.com>

8 July 2011

Available online 23 July 2011