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## In Memoriam of Prof. Dr.-Ing. Erich Hahne (02.02.1932 – 28.05.2022)

On 28 May 2022, Professor Dr.- Ing. Erich Hahne passed away at the age of 90 years. He was editor of the International Journal of Heat and Mass Transfer for nearly 50 years. He was a well-known and very active member of the international heat transfer research community.

Erich Wilhelm Perikles Hahne was born on 2 February 1932 in Athens, Greece. Subsequently he grew up and studied in Munich. In 1958 he received the degree Dipl.-Ing. in Mechanical Engineering from the Technical University of Munich. In 1964 he was awarded the degree Dr.-Ing. in mechanical engineering under the guidance of the heat transfer pioneers Profs. Ernst Schmidt and Ulrich Grigull. The title of his thesis was “Heat Transfer by Natural Convection in Fluids Close to Their Thermodynamic Critical Point”. He subsequently accepted a position in the Technical University of Munich, rising to the position of “academic director”. During a NASA-funded research fellowship in 1964/1965 at CalTech in Pasadena, USA, Dr. Erich Hahne investigated the natural convection heat transfer through an enclosed horizontal layer of supercritical carbon dioxide.

He was appointed as a full professor and director of the Institute for Thermodynamics and Thermal Engineering (ITW) at the University of Stuttgart in 1973.

In April 2000 he retired from his chair in the University of Stuttgart. He maintained his office at ITW and continued many of his activities including the supervision of doctoral students, the editorship of journals and the organisation of conferences such as the Eurotherm Conference in Heidelberg, Germany, 2000, and Terrastock Conference in Stuttgart, Germany, 2000.

For the University of Stuttgart, this appointment was a stroke of luck as ITW flourished under his leadership to develop into an internationally highly respect research centre for phase change heat transfer, heat storage and solar engineering. Pioneering investigations on central solar heating plants with seasonal storage and the foundation of the Research and Testing Centre for Solar Systems have firmly established the institute in the forefront of solar research.

Being one of the founding members of the International Centre for Heat and Mass Transfer (since 1968 as German representative, later as a member of the Scientific Council, and between 1978 and 1981 as chairman of the Executive Committee), he was the recipient of the 20<sup>th</sup> Anniversary ICHMT Award in 1988. He was one of the German delegates in the Assembly for the International Heat

Transfer Conferences which he served in many responsible positions.



He was an editor or co-editor of important international journals, including the International Journal of Heat and Mass Transfer, the International Communications in Heat and Mass Transfer, the Previews in Heat and Mass Transfer, the Numerical Heat Transfer, the International Journal of Transport Phenomena and the Journal of Solar Energy. He hosted many visiting scientists from all over the world. As the University of Stuttgart liaison officer for Chinese universities, he visited China several times and became an Honorary Professor at the Shanghai Institute of Mechanical Engineering in 1983.

Over the years, he made outstanding contributions to a wide range of topics in the thermal sciences, ranging from thermophysical properties, boiling and condensation heat transfer, thermal energy storage to solar engineering. Professor Hahne authored and co-authored close to 400 papers published in international journals and on conferences.

Erich Hahne also was a co-author together with U. Grigull of the books "Progress in Heat and Mass Transfer, vol. 1, 1969, and Heat Transfer in Boiling, 1977. He was also one of the authors of the Proceedings of the 4<sup>th</sup> and 7<sup>th</sup> International Heat Transfer Conference in Paris Versailles, France, 1970 and Munich, Germany, 1982, respectively.

Prof. Hahne was a dedicated teacher and taught a wide range of undergraduate and postgraduate courses such as: technical thermodynamics, heat and mass transfer, heat exchanger design, optimised energy conversion, and solar energy technology. His textbook "Technische Thermodynamik", published in the 5<sup>th</sup> edition, is

still highly accepted and well used by today's students. He was the doctor father of about 50 Ph.D. researchers during his 40 years of scientific activity at the University of Stuttgart.

We all will remember Professor Erich Hahne and his comprehensive work in best memory.

Klaus Spindler, University of Stuttgart, Germany

Ulrich Gross, Technical University Bergakademie Freiberg, Germany

Bernhard Weigand, University of Stuttgart, Germany

Tianshou Zhao (editor-in-chief), Hong Kong University of Science and Technology