

Prof. Dr. Dr. h. c. E. U. Franck

Institute for Physical Chemistry
Karlsruhe University
76128 Karlsruhe
Germany

Curriculum Vitae

1920	Born in Hamburg, Germany
1939	Finished Gymnasium in Hamburg. From 1939 army service and in between chemistry studies in Göttingen
1946	Chemistry Diploma
1950	Chemistry Dr. Promotion in Göttingen with A. Eucken : <i>Thermal Conductivity of Gases</i>
1952	Marriage with Dr. E. Sander
1956	Habilitation in Göttingen: <i>Dense Supercritical Steam as an Electrolytic Solvent</i>
1956 – 1961	Dozent in Göttingen
1960	Visiting Scientist, Oak Ridge Natl. Lab. USA
1961	Full professor for Physical Chemistry, University of Karlsruhe, Germany
1961 and 1974	Calls to Aachen and Göttingen Universities
1969 - 1970	Guest professor University of California at Berkeley
1975	Guest professor Universities of Tokyo and Kyoto, Japan
1979	Guest scientist Atomic Energy Institution, CNEA, Buenos Aires, Argentina
1989 – 1990	Upson Guest professor, Cornell University, Ithaca, New York
2004	Died in Karlsruhe, Germany

Awards

1958	DECHEMA Medal, Chem. Technology
1970	BUNSEN Medal of the Deutsche Bunsengesellschaft für Physikalische Chemie
1981	P.W. Bridgman Medal of the International Association For High Pressure Research
1988	Y.S. Touloukian Award of the Amer. Assoc. of Mechanical Engineers
1989	A.G. Werner medal of the Deutsche Mineralogische Gesellschaft
1999	W.G. Gibbs medal of IAPWS, International Association for the Properties of Water and Steam

Honours

1963	Board of DECHEMA
1970	Senate of the Deutsche Forschungsgemeinschaft
1973	Council of the Faraday Soc.
1977	Vice president of the IUPAC Division of Physical Chemistry
1979-1980	President of AIRAPT (International Association for High Pressure Research and Technology)

1992 President of the Bunsengesellschaft
1992 Dr. h. c. from Marburg University
1996 Honorary Member of the Bunsengesellschaft

Academics

1975 Heidelberg Academy of Sciences
1978 Leopoldina Academy, Halle
1991 Göttingen Academy of Sciences

Member of Scientific Societies

Deutsche Bunsengesellschaft für Physikalische Chemie
GDCH, Gesellschaft Deutscher Chemiker
DECHEMA
UK Royal Soc. of Chemistry
Deutsche Mineralogische Gesellschaft
Amer. Soc. for the Advancement of Science

Research Fields

Physical and chemical phenomena in fluids at high pressures and supercritical temperatures:
Phase equilibria, critical phenomena, electrolytic properties of hydrothermal fluids
Transport properties
Equations of state
Dielectric constants
FIR and Raman Spectroscopy in dense fluids
Fluid Metals
High pressure combustion and high pressure flames