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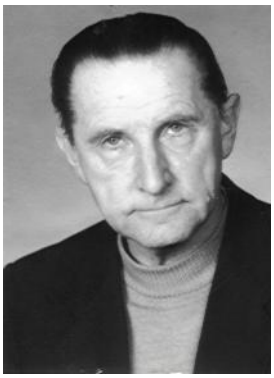
CURRICULUM VITAE



KARL SCHÜGERL, Prof. em. Dr.Dr.h.c.

Birthdate: June 22, 1927

Education:

Habilitation	University Hannover, 1964
Ph.D.	University Hannover, 1959
M.S. in Chem. Eng.	Technical University Budapest, 1949

Professional experience:

1982-1986	Head of Department of Biochemical Engineering of the GBF (Central Research Institute of Biotechnology of Germany), Braunschweig
1974	Full Professor, Chairman and Head of Institute for Technical Chemistry of Technical University of Berlin, West-Berlin
1969-1995	University Hannover, Professor, Chairman and Head, Institute for Technical Chemistry
1969	Full Professor of Chemical Engineering at the University of Liège, Belgium
1966-1969	Technical University of Braunschweig, Associate Professor
1966	Associate Professor of Chemical Engineering at the New York University, USA
1964-1966	Dozent at the Technical University Hannover
1962-1964	Technical University of Hannover, Research Associate
1960-1962	Princeton University, Chemical and Mechanical Engineering Department, Research Associate
1959-1960	New York University, Chemical Engineering Department, Research Associate
1956-1957	Riedel de Haen, Seelze, Research Engineer
1955-1956	Construction Company for the Chemical Industry, Budapest Engineer for chemical reactor construction
1952-1956	Research Institute for Organic Chemical Industry, Budapest Engineer for research and development
1949-1952	Technical University of Budapest, Institute for Organic Chemistry, Research Associate

Special Honors:

Member of the:

Hungarian Academy of Sciences, 1995
New York Academy of Sciences 1993
Brunswick Scientific Society, 1990
Advisory Board of the Fraunhofer Institute of Interfacial and Bioprocess Engineering, Stuttgart (1980-1995)
Organizing Committee of several national and international scientific congresses in the field of biotechnology and chemical process analytics.

Doctor honoris causa (Dr.h.c.) of Technical University Budapest, 1991

Computing and Control Division Premium of the Institution of Electrical Engineers, England, 1985/86

Chairman of the:

European Federation of Biotechnology Working Party "Measuring and Control in Biotechnology" (1985-1995)
DECHEMA-Working Party "Measuring Modelling and Control in Biotechnology" (1983-1995)
Sherman Fairchild Distinguished Scholar at the California Institute of Technology, Pasadena, 1993

Editorial Board of:

Chemie-Ingenieur Technik (1985-1995)
Chemical Engineering and Technology (1985-1995)
Advances in Biochemical Engineering/Biotechnology
Biotechnology Monographs (1985-1990)

Editorial Advisory Board:

Appl. Microbiology and Biotechnology
Journal of Biotechnology (1985-1995)
Analytical Chemical Acta
BioEngineering (1980-1990)

Editor: Technical Membranes in Biotechnology, VCH, (German), 1986
Physico-chemical Fundamentals of Downstream Processing, VCH (German) 1984
Microbial Protein Production, VCH (German), 1980
Measuring Modelling and Control in the Biotechnolgy in "Biotechnology, a Comprehensive Treatment in several volumes" 2nd Edition. Vol. 4 (1991)
Analytical Methods in the Biotechnology, Viehweg (German) 1989
Relation between Morphology and Process Performance. Springer Verlag. 1998
Influence of Stress on Cell Growth and Product formation, Springer Verlag, 2000
Bioreaction Engineering. Modeling and Control, Springer Verlag, 2000

Co-Editor of Journal of Biochemical Engineering

Books: Transport Processes in Packed Columns (Hungarian) 1954
Bioreaktionstechnik, Band 1 Salle & Sauerländer, 1985
Bioreaction Engineering, Vol. 1 John Wiley & Sons, 1987
Bioreaktionstechnik, Band 2, Salle & Sauerländer, 1991
Bioreaction Engineering, Vol. 2, John Wiley & Sons, 1991
Solvent Extraction in Biotechnology, Springer Verlag, 1994
Bioreaction Engineering, Vol. 3, John Wiley & Sons, 1997
Bioreaktionstechnik, Prozeßüberwachung, Birkhäuser Verlag , 1997

Publications: 928 scientific publications and three patents
Major Lectureships in several national and international congresses

Research Interests:

Chemical reaction engineering (high temperature processes in fluidized beds and rotary kilns)
Biochemical reaction engineering (bioreactor and bioprocess engineering)
Separation processes (hydrometallurgy, environmental engineering, downstream processes)
Measuring and control in biotechnology (by means of on-line and off-line monitoring of medium components with HPLC, FIA, MS, GC and biosensors)