Prof. i.R. Dr.-Ing. habil. Dr. h.c. Rudolf H. Schilling

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Curriculum Vitae :

Date of birth:	January 01,	1944
Education:	1964 - 1970 1976 1979	Mechanical Engineering at Universität Karlsruhe(TH), Germany DrIng. in Mechanical Engineering at Universität Karlsruhe(TH): "Radial Cascades for Pumping highly viscous Fluids" Habilitation, DrIng. habil., at Universität Karlsruhe(TH): "Fluid Flow in the Impeller Side Spaces of Centrifugal Pumps"
Career:	1971 - 1980 1976 - 1980 1980 - 1988 1984 - 1988 Since 1988 1992 - 1996 1994 - 1998 1996 - 2000 2001 - 2003 2003 - 2009 2003 - 2010 2009 - 2017 2011	 Design Engineer with the Pump Manufacturer KSB, Frankenthal Research Assistant with the Institute of Fluid Mechanics and Fluid Machinery (IFM&FM) at Universität Karlsruhe(TH) Provisional Supervision of the Teaching Chair for Fluid Machinery at the IFM&FM at Universität Karlsruhe(TH) R & D Engineer in the field of Hydraulic Turbomachinery at the Turbine Manufacturer VOITH, Heidenheim, Germany Head of R & D at VOITH, Heidenheim, Germany Head of R & D at VOITH, Heidenheim, Germany Technische Universität München (TUM), Full Professor (C4), Lehrstuhl für Hydraulische Maschinen, since 2002 Fluid Mechanics Chairman of International Association of Hydraulic Research (IAHR), Section Hydraulic Machinery and Cavitation Chairman of "Deutscher Fakultätentag für Maschinenbau und Verfahrenstechnik" Vice-Dean and Dean of Faculty of Mechanical Engineering Member of the TUM - Senate Vice-President of Technische Universität München Managing Director of German Institute of Science & Technology, (GIST), later GIST-TUM Asia, Singapore Authorized Person of TUM – President Retirement from Technische Universität München Invited Professor at the International Hellenic University, Thessaloniki, Greece Foundation of the Hydro Consulting GmbH, CEO

Reseach Interests:

Development of Numerical Design Tools. Computational Fluid Dynamics (CFD), Structural Analysis (CAS), Hydro - Acoustics (CHA), Fluid – Structure Interaction. Development of CFD-, CAS- and CHA-Tools for the Numerical Analysis of Hydraulic Turbomachinery Optimum Design of Hydro Turbines, Centrifugal Pumps and Fans. CAD/CAM of Hydraulic Turbomachinery Components.

Teaching:	Fluid Mechanics, Control Theory, Numerical Simulation of Real Fluid Flows, CFD Aided Design of Fluid Machinery, CAD/CAM of Fluid Machinery Components, Hydraulic Machinery, Water and Wind Turbines, Power Engineering – Hydro and Wind Power		
Honors:	 1976 : DrIng. Thesis with "Summa cum laude" 1992 : Call to a Full Professorship (C4) at the University of Stuttgart 1998 : Best Paper Award, MTM III Conference on Hydro Power Plants, Ex-en Provence, France 2000 : ISROMAC-Award from the Pacific Center of Thermal-Fluid Engineering, Hawaii, USA 2001 : Appointment as Consultant Professor of Huazhong University of Science and Technology in Wuhan, China 2009 : Honorary Degree "Dr. h.c." from St. Petersburg Polytechnical University, St. Petersburg, Russian Federation 2010 : Award of Nanyang Technological University (NTU), Singapore, for the "Outstanding Contribution towards Fostering the NTU – TUM Partnership" 2010 : Award of GIST- TUMAsia "In Appreciation of the Unwavering Support and Contributions to GIST-TUMAsia in the Years 2004-2010" 2012 : Invited Lecture on the ISROMAC 14, Hawaii, USA, Febr./March 2012 : "Future Development of Waterpower – Possibility and Limits" 2013 "Goldene Ehrennadel" des VDMA Fachverbandes Pumpen+Systeme 2015 : Invited Lecture on the Sino-German Symposium in Zhenjiang, Jiangsu, China, October 2015 : "Development of Radial-Axial Pump Turbines for Decentralized Small Pumped Storage Power Plants" 		
Selected Memberships:			
	International Association of Hydraulic Research (IAHR), Representative of Germany, 1990 – 2004, Chairman 1992 – 1996		

TIME-Association (Top Industrial Managers for Europe), 2001 - 2009 Member of the Board, 2003 – 2009

Konsortium Deutscher Universitäten (KDU), Vice-President, 2004 – 2007

German Institute of Science and Technology, Singapore, Institute of Technische Universität München, 2004 – 2011