

Born 19.11.1953 in Vienna, Austria

### **Professional formation, Experience:**

- 1976 Master diploma as *Civil Engineer* (Dipl. Bauing. ETH) at *Swiss Federal Institute of Technology* (ETH) Zurich; Master thesis on materials and mechanics: *Bending and impact behavior of spruce at different temperatures and moisture contents* (in German)
- 1976..79 Research assistant at *Swiss Federal Institute of Technology* ETH Zürich on both institute for *Building Materials, Materials Chemistry and Corrosion* (IBWK-ETH) as well as Institute of *Mechanics* (IfM-ETH) Research assistant (50% each)  
Research Projects: Viscoelastic Properties of different materials (wood, PMMA, concrete, asphalt), frost deicing-salt resistance of concrete
- 1979..83 Leader of ETH research project on triaxial viscoelastic behavior of Gussasphalt (theoretical and experimental work (including construction of a new servohydraulic triax-machine)
- 1983 Doctorate: Dr. Sc. techn.; thesis at IBWK-ETH Zurich (Title: "*Isothermal Creep of a Bituminous Mortar under Multi-Step Loading*") 1<sup>st</sup> supervisor: Prof. Dr. A. Rösli, 2<sup>nd</sup> supervisor: Prof. H. Grob, (former rector ETHZ)
- 1984..90 Head of department *Material Science and Application Technique* (ca. 15 co-workers) of private company Ametex AG (International research center of Eternit Group, fiber cement products)  
Work, projects: materials research for development of asbestos-free fiber cement products such as shingles, corrugated sheets, sewer and pressure pipes; research coordination with universities; papers and presentations; consulting work for factories in Europe, South America and South Africa; development of test methods and test protocols (member in CEN TC 128 "Pitched Roofing Products")
- 1990.. Head of department *Road Engineering/Sealing Components* at *Swiss Federal Laboratories for Materials Testing and Research* EMPA (ca. 17 co-workers)  
Work, projects: National and international research projects and consulting on physical and mechanical properties of bituminous binders, mixtures, pavements, waterproofing membranes, asphaltic plug joints for bridges and tunnels, general joints (in domo and in situ research) including non destructive testing (georadar, thermography); collaboration in national and international organizations (see list below); expertises for lawsuits etc; laboratory quality management; papers and presentations; teaching

### **Additional professional activities, teaching:**

- 1986..87 Lecturer at ETH on the subject *Mechanical and Technical Behavior of Building Materials I & II* (Dept. of Civ. Engrng.)
- 2000 Lecturer at Technical College Aarau Brugg-Windisch: *Road Construction, Pavement Design and Pavement Materials*
- 1990.. Lecturer at Technical College in Pfäffikon on the subject *Building Materials*

### **Sabbatical:**

- 1993..94 Oregon State University USA (G. Hicks and T. Vinson)  
Work, projects: Low temperature behavior, water sensitivity, aging of SMA and Swiss pavements, contributions to several OSU projects; seminars and lectures.
- 2001 Arizona State University USA (M. Witczak) (visiting research scholar)  
Work, projects: Assistance with the 2002 AASHTO Design Guide Project, Superpave Advanced Materials Characterization Project; Simple Performance Test for AC Mixture Design. Diverse Vorträge und Seminars.