

## **CURRICULUM VITAE**

**Year of Birth:** 1951

**Family Status:** married; two children (1989 and 1993)

**Nationality:** Germany

**Profession:** Full Professor, Head of the Institute for Water and River Basin Management, Karlsruhe Institute of Technology (KIT)

**Specialization:** Planning and construction of hydraulic structures in the field of “hydraulic engineering, water resources management, fluid mechanics” with the following thrust areas: -channel flows and sediment transport, - river engineering, river development, flood water control and ecology-air/water- and sediment interaction-air entrainment, multiphase flows, storage systems (weirs, dams, flood control basins), - shipping engineering (inland waterways, design of sluices), -hydropower: design, operation, regulation and control, - experimental hydraulics and measurement techniques,- hydrology

## **HIGHER EDUCATION AND PROFESSIONAL CAREER**

- 1972/73 - 77/78: Civil Engineering at the University of Karlsruhe (TH), awarded the degree of “Dipl.-Ing”
- 1978 – 1986: Scientific assistant at the Institute for Hydromechanics, University of Karlsruhe (TH)
- 1984: Awarded PhD degree (Dr.-Ing) on ‘aeration induced through bubbles and development of a mechanism for the aeration process’
- 1986: Chairman of the Department of ‘river engineering and hydraulics of the river beds’ with specialization in ‘mathematical models in channel flow’ in the Federal Waterways Engineering and Research Institute, Karlsruhe.
- 1990: Group leader (group: hydraulic engineering/hydraulics) at the Federal Waterways Engineering and Research Institute, Karlsruhe and Berlin.
- 1991: Representative for the German Ministry for Transport at the international commission for protection of river Elbe (IKSE)
- 1992: Appointment as the Director of Construction Engineering
- 1993: Appointment as the Chairman of the special committee, ‘Experimental and Numerical Hydraulics’ at the German Association of Water, Wastewater and Waste
- Since 1994: Appointment as a Full Professor at the University of Karlsruhe (today KIT) Director of the Department for Water and River Basin Management - Chair of Water Resources Management and Rural Engineering –
- 1994: Chief investigator of the scientific board of ‘Elbe and its ecology’ at the Federal Ministry of Education and Research (BMBF), Germany
- 1995: Acceptance at the Russian Academy of Water Users
- 1995: Honorary PhD at the Lomonosow University and Russian Academy for Water Resources, Moscow

- 1996: Board member of the Association of Water Resources, Baden-Württemberg
- 1996 – 2000: Dean of student affairs at the Faculty of Civil Engineering, University of Karlsruhe
- 1996: Secretary, Section of Continuous Education and Training at IAHR
- 1997: Chairman of the DIN-standards for storage structures
- 1997: Leader of the graduate course on ‘Ecology and Water Resources’
- Since 1998: Member of the ‘board of trustees’ at the Building Insurance, Baden
- Since 1998: Vice President of the Association of Water Resources Baden-Württemberg
- 1999: Awarded Honorary Ph. D from the University of Nishny Novgorod
- 1999: Honorary Dean at the Sebelas Maret University, Surakarta, Indonesia
- 1999: Chairman of the academy of sustainable technologies, Karlsruhe
- 2000: Dean of the Faculty of Civil Engineering, University of Karlsruhe (today KIT)
- 2002 – 2010: Dean of the Faculty of Civil Engineering, Geology and Environmental Sciences, University of Karlsruhe (today KIT)
- 2003: Speaker at the Catholic high school association, Karlsruhe
- 2004 – 2010: Speaker of the deans of university Karlsruhe
- Since 2004: Call through the Bishops Conference to the ‘selection boards’ of the KAAD (Catholic Academic Exchange Service)
- 2006: Lead of earthquake disaster management Bantul/Gunung Kidul Indonesia together with Cap Anamur
- Since 2009: Speaker of the advisory board of the joint project program of the Federal Ministry of Transport, Building and Urban Affairs: KLIWAS – Climate and waterways
- Since 2009: Call to the scientific advisory board of the state of Baden-Württemberg
- 2009: Hector Fellow Professor Price 2009
- Since 2010: President of Water Resources Management Board Baden-Württemberg

### **INITIATOR AND LEADER OF THE FOLLOWING BMBF AND NATIONAL PROJECTS**

- 1996 – 2001: BMBF-Project Elbe-Morphology; 12 sub-projects, Grant 4,5 million €
- 1998 – today: BMBF-Project Wolga-Rhine; 5 sub-projects, Grant 5 million €
- 1997 – today: Baden Württemberg- State project for flood information for the river Neckar, Grant 3,5 million € (IKONE-Integrated Conception of the Neckar catchment area)

- 2005 – 2008: BMBF-RIMAX Project: Operational Management of flood under the extreme conditions within the Central Elbe, 5 sub projects, Grant 2 million €
- 2000 – 2008: BMBF-Karst Cave Project/Java-Indonesia (Survey, Construction and Operation of the first underground reservoir in a karst cave, with micro hydropower system; 9 sub-projects, Grant 5,5 million €; industrial input 2,5 million €
- March 2010: Official start of operation of cave water supply system
- 2008 – 2013: BMBF-IWRM-Integrated Water Resources Management in Middle Java/Gunung Kidul-Indonesia; 15 sub-projects, Grant 6 million €
- 2010: Feasibility study in a carst area in North Vietnam/Ha Giang – decentral water supply under extreme conditions

## **LECTURES**

Lectures in the Faculty of Civil Engineering and Survey Engineering, University of Karlsruhe in Hydraulics, Rock and Sediment transport in the areas of Hydraulic Engineering and Water Resources Management with the sub topics like Flood water control und River development, Hydropower and Storage systems, Erosion control mechanisms, Multiphase flows and Mass transport, Case studies, Rural Engineering

## **SUPERVISED DISSERTATION**

over 60

## **HABILITATION/ PROFESSORSHIPS**

Prof. Dr.-Ing. Bernhart / Karlsruhe  
 Prof. Dr.-Ing. Dittrich / Braunschweig  
 Prof. Dr.-Ing. Theobald / Kassel  
 Prof. Dr.-Ing. Maryono / Jogjakarta, Indonesien  
 Prof. Dr.-Ing. Minh Thu / Hanoi, Vietnam  
 Prof. Dr.-Ing. Malik / Abbotabad, Pakistan

## **ADDITIONAL ASSIGNMENTS**

Freelance and technical consultant in expert services in countries like Pakistan, China, Canada, Russia, Indonesia and Nepal

## **FOREIGN LANGUAGES**

English, Latin, French

**Department of Water and River Basin Management**

**Prof. Dr.-Ing. Dr. h.c. mult. Franz Nestmann**

**Chair of Water Resources Management and Rural Engineering**

**Secretary Karin Krix**

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