

Nomination Form of Candidate for the International Qian Ning Prize

Name	Silke Wieprecht		Sex	F	(photo)
Nationality	Germany	Date of birth	23 August 1965		
Affiliation	University of Stuttgart, Germany				
Professional Position	Head, Dept. Engineering and Water Resources Management				
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1. RESUME

- (1) Education: 1984 Abitur (High School Degree), 1989 Diplom (Master Eng.), 1998 Promotion (Ph.D.)**
- (2) Professional Positions: Leiterin (Director), IWS Institut für Wasser- und Umweltsystemmodellierung; Lehrstuhl (Chair) für Wasserbau und Wassermengenwirtschaft.**
- (3) Involvement in International and National Scientific Activities: Member of various German and International Professional and Scientific Associations (DWA, DTK, BAU, IAHR, WASER etc)**
- (4) Research interests: Sediment Transport; Hydro-, Morpho-, Bio-Dynamics of Rivers; River Engineering; Reservoir Sedimentation**
- (5) Selected Publications: S.Gerberdorf and S.Wieprecht, "Biostabilization of cohesive sediments..." , Geobiology 13 (1), 2014; J.R.Ni and S.Wieprecht, "Modeling of hyperconcentrated..." , J. Hydr. Eng. 130 (10), 2004; and many others**
- (6) Academic Achievements and Awards:**

2. Three most outstanding achievements with supporting materials. ONE: In the scientific field, the introduction, development and application of the notion of “ cascade of scales ” in rivers; namely, hydraulic, morphological and biological processes interact in complex but controlled ways at different scales in terms of time and space. Ref. Keynote speech at 37th IAHR World Congress, Kuala Lumpur (Malesia), 2017. TWO: In the professional field, the contribution to solving sediment management problems in rivers, with special regard to Upper Rhine . Ref. Reports of BMVI (German Federal Ministry of Transportation and Digital Infrastructure). THREE: In the organizational field, chairing the LOC of the 13th International Symposium of River Sedimentation, co-organized by WASER and IRTCES. Ref. Proceedings of ISRS, Stuttgart, 2016.

3. Recommendation reasons

Remarkable contributions to basic an applied research in the area of erosion and sedimentation

Signature: Giampaolo Di Silvio

Date: April 24, 2019

4. Preliminary screening (to be filled by the Office)