

**Selected recent VAW publications on hydropower-related issues,  
as of December 11, 2017**

**Conference Papers**

- Albayrak, I.; Müller-Hagmann, M.; Boes, R.M. (2017). Calibration of Swiss Plate Geophone System for bedload monitoring in a sediment bypass tunnel. In Proc. 2nd Intl. Workshop on Sediment Bypass Tunnels (Sumi, T., ed.), paper FP16, Kyoto University, Kyoto, Japan.
- Auel, C.; Thene, J.R.; Müller-Hagmann, M.; Albayrak, I.; Boes, R.M. (2017). Abrasion prediction at Mud Mountain sediment bypass tunnel. In Proc. 2nd Intl. Workshop on Sediment Bypass Tunnels (Sumi, T., ed.), paper FP12, Kyoto University, Kyoto, Japan.
- Beck C., Lutz N., Lais A., Vetsch D., Boes R. M. (2016). Patind Hydropower Project, Pakistan – Physical model investigation on the optimization of the sediment management concept. HYDRO 2016 Conference, Montreux, Switzerland. E-proceedings, paper no. 26.08
- Boes, R. M., Albayrak, I. (2017). Fish guidance structures: new head loss formula and fish guidance efficiencies. Proceedings of the 37th IAHR World Congress, Kuala Lumpur, Malaysia, 2495-2501.
- Boes, R.; Frank, P.-J.; Hager, W.H. (2017). Spatial breach development of homogeneous non-cohesive levees and embankment dams due to overtopping. Proc. 85th ICOLD Annual Meeting, Prague, Czech Republic, Paper 344, 10 pages.
- Boes, R.M.; Beck, C.; Lutz, N.; Lais, A.; Albayrak, I. (2017). Hydraulics of water, air-water and sediment flow in downstream-controlled sediment bypass tunnels. In Proc. 2nd Intl. Workshop on Sediment Bypass Tunnels (Sumi, T., ed.), paper FP11, Kyoto University, Kyoto, Japan.
- Facchini, M.; Siviglia, A.; Boes, R.M. (2017). Downstream morphological effects of SBT releases: 1D numerical study and preliminary LiDAR data analysis. In Proc. 2nd Intl. Workshop on Sediment Bypass Tunnels (Sumi, T., ed.), paper FP22, Kyoto University, Kyoto, Japan.
- Hohermuth, B. (2017). Air demand of high-head bottom outlets. Proceedings of the 37th IAHR World Congress, Kuala Lumpur, Malaysia, 2956-2965.
- Müller-Hagmann, M.; Albayrak, I.; Boes, R.M. (2017). Field calibration of abrasion prediction models for concrete and granite invert linings. In Proc. 2nd Intl. Workshop on Sediment Bypass Tunnels (Sumi, T., ed.), paper FP13, Kyoto University, Kyoto, Japan.

Müller-Hagmann, M., Albayrak, I., Boes, R. M. (2017). Field calibration of bedload monitoring system in a sediment bypass tunnel: Swiss plate geophone. Proceedings of the 37th IAHR World Congress, Kuala Lumpur, Malaysia, 995-1004.

Schmocker, L. (2017). Floating debris retention racks at dam spillways. Proceedings of the 37th IAHR World Congress, Kuala Lumpur, Malaysia, 2116-2123.

### **Journal Papers**

Delaney, I., A. Bauder, M. Huss, Y. Weidmann (2017). Proglacial erosion rates and processes in a glacierized catchment in the Swiss Alps. *Earth Surface Processes and Landforms*. doi:10.1002/esp.4239.

Ehrbar, D., Doering, M., Schmocker, L., Vetsch, D.F., Boes, R.M. (2017). Measuring suspended sediments in periglacial reservoirs using water samples, laser in-situ scattering and transmissometry and acoustic Doppler current profiler. *Intl. Jl. of River Basin Management*, 15:4, 413-431, DOI: 10.1080/15715124.2017.1327866.

Felix, D., Albayrak, I., Boes, R. (2017). Weiterleitung von Feinsedimenten via Triebwasser als Massnahme gegen die Stauraumverlandung. *Wasser, Energie, Luft* 109(2): 85-90.

Paschmann, C.; Fernandes, J.N.; Vetsch, D.F.; Boes, R.M. (2017). Experimental setup for flow and sediment flux characterization at desanding facilities. *Flow Measurements and Instrumentation* 54: 197-204, <http://dx.doi.org/10.1016/j.flowmeasinst.2017.02.010>