



Bajkowski Sławomir

Degree PhD. MSc

Current position Senior Lecturer

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Research Areas

Hydraulic structures in low land rivers: Interaction between flow and structures, principles of design and operation. Flow through hydraulic structures. Measurement of water level and discharge on weirs and rivers.

Reservoirs structures auxiliary to engineering works: Spillways, bottom outlets, energy dissipators, pipes and hydraulics of pressurized flow. Exercises on the hydraulic analysis and design of selected hydraulic structures.

Bridge crossings and culverts: Interaction between flow and bridge structures. Overview of the boundary conditions for design. Animals passing through road water structures.

Alluvial river intakes: Functions and types of settling basins and flushing devices, principles of operation and maintenance of hydro mechanical equipment. Analysis of layouts of intakes and of main design parameters and procedures.

Hydraulics Laboratory: Various types of measuring equipment, choice of various flow types: over a broad crested weir, through a contraction, underneath a gate, energy dissipation in a flume. Measurements in the flumes at the hydraulic laboratory.

Courses Taught

Field: Environmental Engineering. Engineer degree (first level): Hydro Engineering.

Master studies (second level): Alternative Sources of Energy, Water Reservoirs, Measuring-control Devices in Water Engineering, Environmental Water Structures.

Field: Building Constructions. Engineer degree (first level): Hydraulic Engineering, Water Structures Constructions. **Master studies (second level):** Surface Water Intake Works, Low-head Hydroelectric Power, Small Hydroelectric Power, Small Bridges and Culverts, Draining Pump Stations, Reconstruction of Water Management Objects.

Education

Full-time Master's Degree: Wydział Melioracji Wodnych. Field of study: melioracje wodne. Year 1981.

Doctorate Degree: Wydział Melioracji i Inżynierii Środowiska. Discipline of sciences: nauki rolnicze. Scientific speciality: melioracje wodne. Year 1991.

Professional Experience

Grants: Projekt badawczy nr 6 P06S 026 21. Badanie natleniania wody na małych budowach hydrotechnicznych. Okres realizacji 2001 - 2004.

Patents: Reduktor prędkości wody. UP RP 371698. Kolumna wodna. WUP 11/04.

Laboratory activities:

Badania przepływomierzy dla kanałów grawitacyjnych ISCO 2150. 2007.

Badania modelowe oraz wykonanie prototypu aeratora falowego. WZMiUW Oddział w Płocku. 2007.

Honors and Awards

Nagroda Rektora SGGW w Warszawie. Zespołowa II stopnia. 2008.

Srebrna Odznaka Honorowa NOT. 2006.

Odznaka Honorowa za Zasługi dla Ochrony Środowiska. 2006.