

Dr hab. Piotr Frankiewicz

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Education

- Professor titular 2008
- University Professor 2002
- D.Sc. 2000
- Ph.D. 1989

Main research areas

Fish ecology in rivers and reservoirs, ecohydrology, biomanipulation, hydroacoustic, trophic interactions in freshwater ecosystems

Professional experience

- 1988 - One month's stay at University of Galway, Ireland
- 1990 - Two months' stay in Pitlochry Freshwater Fisheries Laboratory, Scotland
- 1991 - Two months' stay at University of Vienna, Austria
- 1992 - One month's stay at University of Vienna, Austria
- 1993 - One month's stay at University of Vienna, Austria
- 1996 - Six week stay at Columbus University (USA)

Research projects

In years 1981-2009 participation in 16 national and international research grants.

- Head of two projects granted by State Committee for Scientific Research
- Researches on structure and dynamics of fish communities in the Sulejow Reservoir from the point of view of their pressure on filtrating zooplankton (1996-1999).
- The influence of diurnal and seasonal fish migrations on the efficiency of biomanipulation in the lowland reservoir (2002 – 2004).

International cooperation

- Polish-Austrian program "*Integrating hydroacoustics into strategies for quantification of underyearling fish*" 2003-2004
- Polish-Austrian program "*Distributions patterns within and among fish populations studied on widely differing spatial scales*" 2005-2006
- Co-ordination of the scientific and technological international cooperation joint project POLONIUM: „*Sampling lake fish populations: intercalibration for the Water Framework Directive*” 2006-2007

Main publications

Author of 62 publications and 46 conference's presentations (including 32 at international level)
Major publications from the last 10 years :

- **Frankiewicz P.**, Dabrowski K., Martyniak A., Zalewski M. 1999: Cannibalism as a regulatory force of pikeperch, *Stizostedion lucioperca* (L.), population dynamics in the lowland Sulejow reservoir (Central Poland). *Hydrobiologia* 408/409: 47-55.
- Wojtal A., **Frankiewicz P.**, Zalewski M. 1999: The role of the invertebrate predator *Leptodora kindti* in the trophic cascade of a lowland reservoir. *Hydrobiologia* 416: 215-223.
- **Frankiewicz P.**, Dąbrowski K., Ruciński W., Zalewski M. 2001: The role of shoreline ecotonal zone in spawning success and early life history of dominant fish species in the lowland Sulejow reservoir. *Ecohydrology & Hydrobiology* 1: 177-184.
- Zalewski M., Bis B., **Frankiewicz P.**, Łapińska M., Puchalski W. 2001: Riparian ecotone as a key

factor for stream restoration. *Ecohydrology & Hydrobiology* 1: 245-252.

- Czesny K., Dabrowski K., **Frankiewicz P.** 2001: Foraging patterns of juvenile walleye (*Stizostedion vitreum*) in a system consisting of a single predator and two prey species: testing model predictions. *Canadian Journal of Zoology* 79: 1-7
- Łapińska M., **Frankiewicz P.**, Dabrowski K., Zalewski M. 2001. The influence of littoral zone type and presence of YOY pike (*Esox lucius* L.) on growth and behaviour of YOY pikeperch, *Stizostedion lucioperca* (L.) – consequences for water quality in lowland reservoirs. *Ecohydrology & Hydrobiology* 3: 355-372.
- Zalewski M., **Frankiewicz P.** 2002. The potential to control fish community structure using preference for different spawning substrates in a temperate reservoir. In: Cowx I.G. (ed.) *Management and Ecology of Lake and Reservoir Fisheries*. Fishery News Books. Blackwell Science 2002:217-222.
- **Frankiewicz P.**, Zalewski M., Góralczyk A. 2002. Fish community succession in the Sulejow Reservoir with the special emphasis on recruitment. (Long-Term Ecological Research in Poland).
- Tarczyńska M., **Frankiewicz P.**, Zalewski M. 2002. The regulation and control of hydrologic and biotic processes within reservoirs for water quality improvement. In: Guidelines for the Integrated Management of the Watershed- Phytotechnology and Ecohydrology. (Ed. M. Zalewski). UNEPIETC, Freshwater Management Series 5: 137-156.
- Wojtal A., **Frankiewicz P.**, Izydorczyk K., Zalewski M. 2003. Horizontal migrations of zooplankton in a littoral zone of the lowland Sulejow Reservoir (Central Poland). *Hydrobiologia* 506/509: 339-346.
- **Frankiewicz P.**, Świerzowski A. 2004. Pattern of spatial fish distribution in the Sulejow Reservoir monitored by horizontally beaming echosounder and by gill netting. *Hydroacoustic* 7: 37-46.
- **Frankiewicz P.** 2004 a. Assessment of fish communities. In: Zalewski M. & Wagner-Łotkowska I. (eds.) *Integrated Watershed Management - Ecohydrology & Phytotechnology – Manual*. UNESCO: 121-123
- **Frankiewicz P.** 2004 b. How to manage biotic structure in a reservoir. In: Zalewski M. & Wagner-Łotkowska I. (eds.) *Integrated Watershed Management - Ecohydrology & Phytotechnology – Manual*. UNESCO: 194-196.
- Wojtal A., **Frankiewicz P.** 2004. Basic concepts & definitions. In: Zalewski M. & Wagner-Łotkowska I. (eds.) *Integrated Watershed Management - Ecohydrology & Phytotechnology – Manual*. UNESCO: 37-39
- Wojtal A., **Frankiewicz P.**, Wagner I., Zalewski M. 2004. The evaluation of the role of pelagic invertebrate versus vertebrate predators on the seasonal dynamics of filtering Cladocera in a shallow, eutrophic reservoir. *Hydrobiologia* 515: 123-135.
- Wojtalik J., Godlewska M. **Frankiewicz P.**, Zalewski M. 2006. Diurnal and seasonal fish horizontal migrations in the Sulejów Reservoir, Poland. *Hydroacoustics* 9: 217-226.
- Wojtal A., **Frankiewicz P.**, Andziak M., Zalewski M. 2007. The influence of invertebrate predators on *Daphnia* spatial distribution and survival in laboratory experiments: support for *Daphnia* horizontal migration in shallow lakes. *Internat. Rev. Hydrobiol.* 92: 23-32.
- Wojtal A., Bogusz D., Menshutkin V., Izydorczyk K., **Frankiewicz P.**, Wagner-Łotkowska I., Zalewski M. 2008. A study of *Daphnia-Leptodora*-juvenile Percids interactions using a mathematical model in the biomanipulated Sulejow Reservoir. *Ann. Limnol. - Int. J. Lim.* 44 (1): 7-23
- McCarthy T.K., **Frankiewicz P.**, Cullen P., Blaszkowski M., O'Connor W., Doherty D. 2008. Long-term effects of hydropower installations and associated river regulation on River Shannon eel populations: mitigation and management. *Hydrobiologia* 609: 109–124.
- **Frankiewicz P.** 2009. Analysis of juvenile fish behavior in different hydrological conditions. In: Chicharo L., Wagner I., Chicharo M., Łapińska M, Zalewski M. (eds) *Practical Experiments Guide for Ecohydrology*. UNESCO: Chapter 15: 75-78.
- Wagner I, Izydorczyk K., Kiedrzyńska E, Mankiewicz-Boczek J., Jurczak T., Bednarek A., Wojtal-Frankiewicz A., **Frankiewicz P.**, Ratajski S, Kaczkowski Z., Zalewski M. 2009 Ecohydrological system solutions to enhance ecosystem services: the Pilica River Demonstration Project. *Ecohydrolog.* 9 (1): 13-39.
- Wojtal-Frankiewicz A., **Frankiewicz P.**, Jurczak T., Grennan J., McCarthy T. K. 2010. Comparison of fish and phantom midge influence on cladocerans diel vertical migration in a dual basin lake. *Aquat. Ecol.* 44: 243–254.

Organisational memberships

- Polish Hydrobiological Society
- Polish National Council for Ecology

Main honours and awards

- Scientific Awards of the Rector of Lodz University: 1986, 1991, 2002
- Didactic Award of the Rector of Lodz University: 1989, 2005, 2006
- Scientific Award of the Minister of National Education: 1998