Mateusz Stelmaszczyk

PhD Eng.

Contact

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Education:

- 2011: PhD in Agricultural Sciences in the field of Environmental Protection and Engineering awarded by the Warsaw University of Life Sciences - SGGW, Faculty of Civil and Environmental Engineering
- 2001: M.Sc. Eng. in the field of Environmental Protection awarded by the Warsaw University of Life Sciences - SGGW, Interfaculty Study of Environmental Protection, Specialization: Protection and Restoration of Water Ecosystems

Didactics:

Winter term:

- Information technology (1st year, Civil Engineering, bachelor stationary studies)
- Decision support systems (1st year, Environmental Protection, master stationary studies)
- Introduction to systems theory (1st year, Environmental Protection, master non-stationary studies)
- Water management and water resources protection (2nd year, Technologies of Renewable Energy, bachelor stationary studies)

Summer term:

- Water management and water resources protection (3rd year, Environmental Engineering, bachelor stationary studies)
- Integrated water resources management (2nd year, Environmental Engineering, master stationary studies)
- Water management and water resources protection (3rd year, Environmental Engineering, bachelor non-stationary studies)
- Integrated Water Management (3rd year, Environmental Protection, bachelor stationary studies)
- Integrated water resources management (2nd year, Environmental Protection, master non-stationary studies)

Fields of Research:

- Hydrology and water management – quantitative and qualitative hydrological characteristics determining occurrence of selected wetland plant communities
- Surface waters monitoring – field and laboratory analysis of physicochemical water quality of wetlands
- Determining nutrients concentrations and nutrients availability for plants in top layer of peat
- Determining nitrogen and phosphorus concentrations in wetland vegetation
- Usage of GIS in hydrology

List of Publications:

- Okruszko T., Giełczewski M., Stelmaszczyk M., Piniewski M., Utratna M., 2012: The Narew River Basin Management Problems - Integrated Approach. In Tomasz Nałęcz (ed.), Transboundary Aquifers in the Eastern Borders of The European Union, NATO Science for Peace and Security Series C: Environmental Security, Springer Netherlands. s. 163-180.
- Giełczewski, M., Stelmaszczyk, M., Piniewski, M., Okruszko, T., 2011: How can we involve stakeholders in the development of water scenarios? Narew River Basin case study. Journal of Water and Climate Change. 2 (2-3), s. 166 – 179.
- Stelmaszczyk M., Chormański J., Grygoruk M., Kardel I., Okruszko T., 2010: Groundwater chemical characteristic of wetland vegetation habitats based on the monitoring results from the “Red Bog Strict Protected Area” in the Biebrza Valley. w: International Water Association. 12th International Conference on Wetland Systems for Water Pollution Control. Volume II. s. 1525 – 1533.
- Stelmaszczyk M., Chormański J., Grygoruk M., Kardel I., Okruszko T., Bartoszuk H., 2009: Groundwater chemistry variation in wetland vegetation habitats of the “Red Bog Strict Protected Area”. w: Wetlands – Their Functions And Protection. (ed. Łachacz A.). Wyd. University of Warmia and Mazury in Olsztyn. s. 157 – 172.
- Szoszkiewicz K., Zgoła T., Giełczewski M., Stelmaszczyk M., 2009: Zastosowanie metody River Habitat Survey do waloryzacji hydromorfologicznej i oceny skutków planowanych działań renaturyzacyjnych. Nauka Przyroda Technologie. t. 3 z. 3, #103, s. 1 – 10.
- Frąk M., Kardel I., Stelmaszczyk M., 2008: Potamophytoplankton biodiversity of the Biebrza River against the background of selected water quality parameters – pilot study. w: The functioning and protection of water ecosystems. (ed. Goldyn R.), wyd. AMU Poznań, s. 27 – 38.
- Frąk M., Stelmaszczyk M., 2007: Organizmy fitoplanktonowe a jakość wód rzeki Narwi. w: Zeszyty Problemowe Postępów Nauk Rolniczych, z. 519, s. 77 – 86.
- Frąk M., Stelmaszczyk M., 2007: Variation of phytoplankton community in the Biebrza River. w: Wetlands: Modelling, Monitoring and Management (ed. Okruszko T. i in.). Wyd. Taylor&Francis Group, London, s. 15 – 20.
- Stelmaszczyk M., El Kahloun M., Okruszko T., Meire P., Szewczyk M., 2005: Habitats, their anthropogenic changes and their influence on wetland ecosystems conditions. w: Anthropogenic influence on wetlands biodiversity and sustainable management of wetlands. Wyd. SGGW, Seria WETHYDRO, s. 49 – 63.
- Stelmaszczyk M., Okruszko T., 2005: Wetlands monitoring - which hydrological indicators can describe their ecological status? w: Integrated Land and Water Resources Management: Towards Sustainable Rural Development. ICID 21st European Regional Conference. Conference Proceedings. p. 9.
- Verhoeven R., Banasiak R., Okruszko T., Świątek D., Chormański J., Nowakowski P., Kardel I., Stelmaszczyk M., 2003: Hydraulic modelling of river flow – data collection and problem solving. In: Measurement techniques and data assessement in wetlands hydrology. Wyd. SGGW, Seria WETHYDRO, s. 9 – 23.

Participation in research projects:

- REFORM Restoring rivers for effective catchment management, (REFORM Renaturyzacja rzek dla efektywniejszego zarządzania zlewnią) - nr kontraktu 282656, temat prowadzony w ramach 7 PR UE, 01.11.2011 – 01.10.2015
- Ochrona bioróżnorodności Czerwonego Bagna reliktu wielkich torfowisk wysokich Europy środkowej, projekt w ramach Norweskiego Mechanizmu Finansowego – w 85% finansowany ze środków NMF i 15% z Mnisi, PL 0082. E005/P01/2007/01/85, 01.01.2007 - 31.12.2010
- SCENES Water Scenarios for Europe and for Neighbouring States. temat prowadzony w ramach 6 PR UE, GOCE 036822, 01.11.2006 – 31.10.2010
- WETHYDRO – Centrum doskonałości w zakresie hydrologii mokradeł (decyzja nr SPUB-M-117/E-385/5PRUE/DWM539/2003-2005) 1.01.2003/31.12.2005
- WETHYDRO Center of Excellence in wetland hydrology 1.01.2003/31.12.2005
- ECOFLOOD – Naturalne sposoby ochrony przeciwpowodziowej – możliwości i ograniczenia (decyzja SPUB-M-117/E – 385 / SPUB / 5PRUE /DWM707/2003-2005) 01.02.2003 - 30.06.2005
- ECOFLOOD, Towards natural flood reduction strategies, temat prowadzony w ramach 5 PR UE, wspólnie z GRONTMIJ, Holandia, 01.01.2003 - 30.04.2005
- Ecological responses to changing hydrological conditions in floodplains, polsko-flandryjska umowa o współpracy naukowo-badawczej, 01.01.2001 - 30.12.2002