

Elżbieta Kubrak

Dr. Eng.



Contact:

Warsaw University of Life Sciences - SGGW
Faculty of Civil and Environmental Engineering
Water Center – Laboratory
ul. Ciszewskiego 6
02-776 Warsaw

Tel: 48 22 59 35 278
e-mail: elzbieta_kubrak@sggw.pl

Education

Master of Engineering – 1980, Agricultural University in Warsaw, Faculty of Land Reclamation

Doctor of Engineering – 2007, Warsaw University of Life Sciences, Faculty of Environmental Engineering

Didactics

Hydraulics, Fluid mechanics

Fields of Research

Steady flow in open channels

List of Publications

1. KUBRAK. E, 1983: Selected aspects of the design and construction of hydraulic structures (in Polish). Gospodarka Wodna 8, 1983.
2. KUBRAK. E, 1987: Edited by PROCHALA P., Rules of land reclamation (in Polish). Co-author of part 10 „Water reservoir in agriculture”, PWRiL, Warszawa, t. 2.m, pp. 107-206.
3. KOZIOŁ A., KUBRAK E., KUBRAK J., KUŚMIERCZUK K., 1996: The discharge calculation in compound channels with high vegetation on the floodplains (in Polish). Gospodarka Wodna 12, pp. 363-368.
4. KUBRAK J., KUBRAK E., TUAN ANH PHAN, 1996: Modelling of the Vistula river bed deformation downstream of the Włocławek dam. Annals of Warsaw Agricultural University, Land Reclamation, 28, pp. 77-83.

5. KOZIOŁ A., KUBRAK E., KUŚMIERCZUK K., 1997: Remarks concerning the state of investigations into condition of the flow in channels with compound cross-section overgrown by trees (in Polish). *Przegląd Naukowy SGGW*, z. 13, pp. 229 – 243.
6. KUBRAK J., KUBRAK E., 1998: Power plant Freudenu on Danube (in Polish). *Gospodarka Wodna* 5, 1998, pp. 183-184.
7. KUBRAK J., KUBRAK E., KOZIOŁ A., KUŚMIERCZUK K., 1998: The Saint Venant coefficients in channels with compound cross-sections (in Polish). *Zeszyty Problemowe Postępu Nauk Rolniczych*, 458, pp. 89-102.
8. BYCZKOWSKI A., KUBRAK J., KUBRAK E., 1998: Changes in the hydrological regime due to the restoration of the hydrographic network in the Central Basin of the Biebrza Valley (in Polish). *Zeszyty Problemowe Postępu Nauk Rolniczych*, 458, pp. 171-184.
9. KUBRAK J., KUBRAK E., 2000: The results of investigation on hydraulic roughness coefficient in a compound channel (in Polish). *Warszawa, Gospodarka Wodna* 8, pp. 296-299.
10. KUBRAK J., KRUKOWSKI M., KUBRAK E., KOZIOŁ A., PRZEDWOJSKI B., 2001: The discharge calculation in channel with compound cross-sections (in Polish). *Wiadomości Instytutu Meteorologii i Gospodarki Wodnej*, t. XXIV, z. 3, pp. 19 – 27.
11. KUBRAK J., KUBRAK E., KRUKOWSKI M., PRZEDWOJSKI B., 2002: The discharge calculation in channel with compound cross-sections (in Polish). *Gospodarka Wodna* 5, pp. 190-193.
12. KUBRAK E., 2003: Edited by KUBRAK J., NACHLIK E.: Hydraulic rules of capacity calculation in rivers (in Polish). *Wydawnictwo SGGW*, s.317. Co-author of parts 2.2 „The flow in the channel of a compact cross-section” and 2.3 – 2.3.1 „The flow in the channel with a compound cross-section” , pp. 15-50.
13. KUBRAK E., KUBRAK J., 2004: Hydraulics. Examples of calculations (in Polish). *Wydawnictwo SGGW*, pp. 441.
14. KUBRAK E., 2005: Evaluation of channels discharge capacity (in Polish). *Przegląd Naukowy, Inżynieria i Kształtowanie Środowiska*, z. 1 (31), pp. 29 -38.
15. KUBRAK E., MARCISZEWSKA K., DOHOJDA M., 2005: The infinitesimal deflection of the flexible stems loaded due to dynamic water pressure (in Polish). *Acta Scientiarum Polonorum, Architectura, Budownictwo*, z. 4(2), pp. 27-35.
16. KUBRAK E., 2006: Description of water velocity profiles in open channel flow through submerged flexible stems (in Polish). *Przegląd Naukowy, Inżynieria i Kształtowanie Środowiska*, z. 2 (34), pp. 90 - 98.
17. ROWIŃSKI P., KUBRAK E., KUBRAK J., 2007: Vertical velocity distribution in flows through stiff emergent and flexible submerged vegetation in open channels. *Proceedings Fifth International Symposium on Environmental Hydraulics*, 4-7 December, Arizona State University.
18. KUBRAK E., KUBRAK J., ROWIŃSKI P., 2008: Vertical velocity distributions through and above submerged flexible vegetation. *Hydrological Sciences–Journal–des Sciences Hydrologiques*, 53(4) August 2008.

19. KUBRAK E., KUBRAK J., 2008: Distributions of water velocities in open-channels with vegetation (in German). *Wasser und Umwelt*, H.1 Jg.3.
20. KUBRAK E., WIELGOSZ P., 2008: Description of water velocity profiles in open channel flow through submerged flexible stems (in Polish). *Przegląd Naukowy, Inżynieria i Kształtowanie Środowiska*, z. 3 (41), pp. 3 -11.
21. KUBRAK E., 2008: Calculation of the velocity distribution in the channel flexible vegetation (in Polish). *Gospodarka Wodna* 11, pp. 448-456.
22. KUBRAK E., KUBRAK J., 2009: Distributions of water velocities in open-channels with vegetation (in German). *Wasser Wirtschaft* 4.
23. WÓJTOWICZ A., KUBRAK E., KRUKOWSKI M., 2009: Distributions of water velocities in open-channels with aquatic vegetation (in Polish). *Przegląd Naukowy, Inżynieria i Kształtowanie Środowiska*, z. 2 (44), pp. 11 -20.
24. KUBRAK E., KUBRAK J., 2010: Base of fluid mechanics calculation in engineering and environmental protection (in Polish). *Wydawnictwo SGGW*, pp. 513.
25. KUBRAK E., KUBRAK J., ROWIŃSKI P., 2012: Influence method of evaluation of the curvature of flexible vegetation elements on vertical distribution of flow velocities. *Acta Geophysica*, vol.60, vo.4, 2012, pp.1098-1119, DOI:10.2478/s11600-011-0077-2.
26. KUBRAK E., KUBRAK J., ROWIŃSKI P., 2013: Application of one-dimensional model to calculate water velocity distributions over elastic elements simulating Canadian Waterweed plants (*Elodea Canadensis*). *Acta Geophysica*, vol.61, vo.1, 2013, pp.194-210, DOI:10.2478/s11600-012-0051-7.
27. KUBRAK J., ŻELAZO J., KOZIOŁ A., KUBRAK E., WASILEWICZ M., 2013: Analysis of the vegetation impact on the capacity of the Vistula (in Polish). *Gospodarka Wodna* 5, pp. 188-194.