

Curriculum Vitae **Professor MACIEJ ZALEWSKI**

Date of Birth: 18th March 1950, Warsaw, Poland

Country of Residence: Poland

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MAIN AREA of EXPERTISE

ECOHYDROLOGY – a sub-discipline of hydrology that focuses on ecological processes occurring within the hydrological cycle and strives to utilize such processes for enhancing environmental sustainability

- 1) **Use of Ecosystem Processes in River and Lake Basins for Reduction of various forms of human impact and enhancement of water ecosystems services, biodiversity and resilience (Eutrophication, Toxic Algal Blooms, Sedimentation)**
- 2) **Restoration of Water and Ecosystem Resources in Urbanized Spaces for Economic Development, Human Health and Quality of Life Improvement**

CURRENT POSITIONS

Director of the International Institute of Polish Academy of Sciences - European Regional Centre for Ecohydrology under the auspices of UNESCO

Director of the Department of Applied Ecology University of Lodz

Director of the Center for Ecohydrological Studies University of Lodz

PROFESSIONAL EXPERIENCE - INTERNATIONAL ORGANIZATIONS

EC JPI (Joint Programming Initiative) “Water Challenges for a Changing World”

Member of the drafting task force

UNESCO-IHP (International Hydrological Programme)

- Member of the Task Force to formulate the Eighth Phase of International Hydrological Programme (IHP-VIII - 2013-2019)

- Chairman of the Steering Committee of Programme "Ecohydrology", Project 2.3/2.4, 1996-2006

ESFRI (European Strategy Forum on Research Infrastructures)

Representative of Poland of the Thematic Working Group in Environment (ESFRI ENV TWG)

NCBiR

Member of the Council of the National Centre for Research and Development Poland.

FAO EIFAC (European Inland Fisheries Advisory Commission)

Chairman of the Working Group “Physical Habitat Modification and Freshwater Fisheries”, FAO EIFAC, 1994-2006

UNESCO MAB (Man and Biosphere)

- Member of Scientific Advisory Committee "Role of Land/Inland Water Ecotones in Landscape Management and Restoration", 1999-2006

- Chairman of the Working Group "Fish and Land/Inland Water Ecotones"

UNESCO ROSTE (Regional Office for Science and Technology in Europe)

Member of Scientific Council of Regional Office for Science and Technology for Europe, 2001-2003

UNESCO for DANIDA (Danish Agency for Development Assistance)

- Evaluation of the (510/BDI/40) Project "Le Role des Ecotones Terre/eau dans la Diversite Biologique les Ressources du Lac Tanganyika", Burundi, 1993-1995

- Elaboration of the Proposal of Biosphere Reserve at Upper Parana River, Brazil, 1996

OECD

Head of Polish Delegation to OECD "Export Credits and Environment" treaty negotiations
ICHARM Public Works Research Institute, Tsukuba-shi, Japan (*International Centre for Water Hazard and Risk Management*)
 Advisory Board Member, 2006-2010
International Rivers and Heritage Institute Tours, France
 Member of Scientific Steering Committee, 2000-2011
ILEC (*International Lake Environment Committee*)
 "World Lake Vision", Document Drafting Committee Member
ILTER (*International Long Term Ecological Research*)
 Poland's Representative to International Long Term Ecological Research, 1993-2006
IIASA (*International Institute for Applied Systems Analysis*)
 Task Group Member of the International Institute for Applied System Analysis,
 Vienna "Global Water in the 21st Century", 2003-2005
IVIC (*Instituto Venezolano de Investigaciones Cientificas*)
 Coordinator of Scientific Expedition to Venezuela "Ecology of Tropical Rivers" , 1998

INTERNATIONAL CONFERENCES ATTENDED AS CHAIRMAN AND/OR KEYNOTE SPEAKER

European Bioeconomy Congress, 6-7 October 2016, Lodz, Poland
WWDR 2018 Developmental Workshop, 12-14 September 2016, Perugia, Italy
Aquaculture Summit 2016, 11-13 July 2016, Kuala Lumpur, Malaysia
Meeting of the Governing Board of the UNESCO Cat. II Centre in Germany, 21 June 2016, Berlin, Germany
22nd session of the IHP Intergovernmental Council, 13-17 June 2016, Paris, France
UNESCO Science Centres Coordination Meeting, 15-18 May 2016, Beijing, China
UNESCO Ecohydrology Scientific Advisory Committee, 25 February 2016, Paris, France
Environmental Risk - Assessing and Managing Multiple Risks in a Changing World, 16-18 November 2015, Roskilde, Denmark
3rd Symposium on health rivers and Sustainable Water Resource Management, 21-23 October 2015, Chongqing, China
Ecohydrology 2015, 21-23 September 2015, Lyon, France
World's Large Rivers Initiative UNESCO International Hydrological Programme (IHP), 25-26 June 2015, Vienna, Austria
7th World Water Forum, 12-17 April 2015, Daegu & Gyeongbuk, Rep. of Korea
International Scientific Conference OXYGENALIA "Water the molecule of life", 7-8 Nov. 2014, Poznan, Poland
21st session of the IHP Intergovernmental Council, Paris, 18 – 20 June 2014
Chinon River Sciences 2014 – an international workshop on "River Restoration: towards an agenda for research, action, and teaching" Chinon, 22. / 23. May 2014
UNESCO IHP VIII Ecohydrology Steering Committee and Workshop, Paris, 20-21 May 2014
Beijing International Workshop of Future of the Hydroinformatics for Ecohydrology, 6-9 stycznia 2014, Pekin, Chiny
UNESCO International Year of Water Cooperation – Closing Event
Working Group – Preparing Recipes for Water Cooperation
 Mexico City, Mexico, December 5th – 6th 2013
The Twenty-third IHP Training Course: Ecohydrology for River Basin Management under Climate Change,
Keynote Speaker "Ecohydrology: process oriented thinking towards sustainable enhancement, water resources, biodiversity, ecosystem services and resilience to climate change" Kyoto, Japan, December 2nd – 13th 2013
World Water Summit; Water and Sanitation in the Global Sustainable Development,
Panel Member: High level Panel Discussion: Green economy for blue water
 Budapest, Hungary October 8th – 11th 2013
UNESCO Strategic and High-Level Meeting on Water Security and Cooperation
 Nairobi, Kenya September 11th - 13th 2013
6th International Conference on Water Resources and Environment Research; Keynote Speaker: "Ecohydrology – challenges and opportunities for sustainable river basins management" Koblenz, Germany June 3rd – 7th 2013
International Seminar on Ecohydrology, Biotechnology and Engineering: Towards the Harmony between Biogeosphere and Society on basis of Long Term Ecosystem Research,
 Invited lecture; Brno, Olomuniec; Czech Republic; April 8-10th 2013
UN International Year of Water Cooperation 2013, Paris, February 11th 2013
1st Meeting of the Implementation Working Group UNESCO International Hydrological Programme (IHP),
 Koblenz, December 10th - 12th 2012
EcoSummit 2012
 Member of the Scientific Committee

Co-chairman of the Ecohydrology Symposium
 Columbus, Ohio, USA, 30 September – 5 October 2012

International Seminar on Ecohydrology and Global Water Issues
Invited Lecture, Faro, Portugal, September 2012

CIWEM Rivers & Coastal Group Conference on Flood Plain Management: Implementing International Experience in the UK
Keynote Speech, Birmingham, UK, May 2012

The 2nd Conference on Healthy Rivers and Sustainable Water Resource Management
Keynote Speaker, Chongqing, China, October 2011

International Conference on the Status and Future of the World's Large Rivers
Invited Speaker, Vienna, April 2011

Bio-Economy Africa-Forum 2010: a Knowledge Sharing Forum on a Novel Approach to Sustainable livelihood, Wealth Creation and Climate Change Adaptation
Keynote Lecture, Addis Ababa, Ethiopia, October 2010

XXXVIII World IAH Congress - Groundwater quality sustainability
Plenary Lecture at opening session, Kraków, Poland, September 2010

Presentation of the concept of IHP VIII at International Inter Governmental Council of UNESCO
 Paris, June 2010

International Symposium - Ecohydrology for water ecosystems and society in Ethiopia
Chairman, Addis Ababa, Ethiopia, November 2009

China-Europa Forum on Healthy Rivers and the Implementation of Sustainable Water Resources Management
Keynote Speaker, Chongqing, China, October 2009

Workshop The Scientific Scope to find Mutual Solutions in Large River Management and Restoration
Invited Speaker, Vienna, Austria, September 2009

International Workshop of Geo-Information Techniques & Eco-hydrology for Adapting Global Change
Keynote Speaker, Beijing, China, September 2009

International Conference on Implementing Environmental Water Allocations
Plenary Lecture, Port Elizabeth, South Africa, February 2009

12th Biennial Conference of Euromediterranean Network of Experimental and Representative Basins (ERB) Conference – Hydrological Extremes in Small Basins
Keynote Speaker, Kraków 2008

4th European Centre for River Restoration - International Conference on River Restoration
Keynote Speaker, Venice, June 2008

International Conference Ecohydrological Processes and Sustainable Floodplain Management: Opportunities and Concepts for water hazard mitigation, and ecological and socioeconomic sustainability in the Face of Global Changes
Chairman of the Steering Committee, Lodz, Poland, May 2008

1st German-Polish Conference on Research for Sustainability
Invited Speaker, Warsaw, Poland, May 2008

International Asia-Pacific Regional Workshop of Inter Academy Panel on Water Security and Groundwater Sustainability
Invited Speaker, Beijing, China, March 2008

Colloquium on Lake and Reservoir Management in Malaysia
Invited Speaker, Kuala Lumpur, 2007

“New Directions in Urban Water Management”
Chairman of the Session, UNESCO, Paris, France, 2007

4th World Water Forum
Member of the Panel on Ecohydrology, Mexico City, Mexico, 2006

3rd Training Workshop on Ecohydrology for Asia Pacific Region
Keynote Speaker, Bali, Indonesia, 2006

International Symposium on Ecohydrology
Co-Chairman, Vienna, Austria, 2005

Symposium for European Freshwater Sciences SEFS4
Opening Lecturer in the Ecohydrology Session, Krakow, Poland, 2005

International Workshop “Water and Ecosystems: Water Resources Management in Diverse Ecosystems and Providing for Human Needs”
Invited Lecturer, Hamilton, Canada, 2005

“The Future of Life and the Future of Our Civilization (predictions and modelling)”
Invited Lecturer, Frankfurt, Germany, 2005

“Use of Remote Sensing in Ecohydrology” Session, XII Brazilian Remote Sensing Symposium
Invited Speaker, Goiania, Brazil, 2005

2nd Ecohydrology Workshop of Drylands in the Arab Region
Keynote Speaker, Beirut, Lebanon, 2004

XXIX SIL Congress

Chairman of the Ecohydrology Session, Helsinki, Finland, 2004
Conference on “Water Observation and Information System for Decision Support”
Chairman of the “Ecohydrology” Session, Ohrid, Republic of Macedonia, 2004
“Ecohydrology of Drylands in the Arab Region” Workshop
Keynote Lecture, Sharm El-Sheikh, Egypt, 2003
International Symposium “Ecohydrology and Physical Fish Habitat Modifications in Lakes”
Keynote Speaker, Mondsee, Austria, 2003
Meeting on “Indicators and Indices to Assess the Dynamics of River Basins”, UNEP
Invited Speaker, Nairobi, Kenya, 2003
Asia Pacific Training Workshop on Ecohydrology “Integrating Ecohydrology and Phytotechnology into Workplans of Government, Private and Multinational Companies
Opening Lecture, Cibinong, Indonesia, 2003
Third World Water Forum
Chairman of the Special “Ecohydrology” Session, Osaka, Japan, 2003
Expert Meeting on Biodiversity and Water Resources
Invited Speaker, Cairo, Egypt, 2002
Final Conference of the First Phase (1996-2001) IHP-V Project 2.3,2.4 on Ecohydrology “The Application of Ecohydrology to Water Resources Development and Management”
Chairman, Venice Italy, 2001
EIFAC FAO International Workshop “Ecohydrology as a Tool for Restoration of Physically Degraded Fish Habitats”
Chairman, Warsaw, Poland, 2001
III International Workshop on Regional Approaches to Reservoir Development and Management in La Plata River Basin: Focus on Informal Decision Processes for Sustainable Development of Reservoir
Keynote Lecturer, Posadas, Argentina, 2001
International Workshop on Ecosystem Impacts of Large Dams
Invited Speaker, Nairobi, Kenya, 2000
European Community Seminar "European Research Area, Agriculture and Environment"
Delegate of The Republic of Poland, Rennes, France, 2000
First International Conference on Wood in World Rivers
Plenary Lecturer, Corvallis, Oregon USA, 2000
"Solving Tomorrow's Problems Today" Workshop - A holistic approach to the responsible care and Sustainable management of water
Keynote Lecturer, Cancun, Mexico, 2000
UNEP, UNESCO-IHP and European Commission High Level Expert Meeting Perspectives of Phytotechnologies and Ecohydrology as Tools for Sustainable Management of Water and Landscape Resources
Chairman, Walewice, Poland, 2000
UNEP Phytoremediation Expert Meeting
Invited Speaker, Elora, Ontario, Canada, 2000
International Symposium "Hydrological and Geochemical Processes in Large-Scale River Basins"
Invited Speaker, 15-19 Nov. 1999, Manaus, Brazil
“Shallow Tropical Lakes and Humans”
Keynote Lecturer, Naivasha, Kenya, 1999
SIL Congress
Chairman of the “Ecohydrology” Session, Dublin, 1998
UNESCO UNDP Workshop on Ecohydrology
Chairman, Lodz, Poland, 1998
“Ecohydrology and fisheries” Workshop, IX Congress of European Ichthyologists
Chairman of the Workshop on Ecohydrology and Fishery Sciences, Trieste, Italy, 1997
Workshop on Ecosystem Approach to Lake and Reservoir Management
Invited Speaker, Bali, Indonesia, 1997
Workshop on Current Advances in Environmental Decision-Making
Invited Speaker, IIASA, Laxenburg, Austria, 1997
UNESCO IHP-V Symposium "Ecohydrology"
Keynote Lecturer, Dienten, Austria, 1997
"Ecology of Floodplain" Workshop
Invited Speaker, Maringa, Brazil, 1997
"Ecology and Management of Reservoirs" Workshop
Invited Speaker, Maringa, Brazil, 1996
First Core Group Meeting of UNESCO IHP-V Programme "Ecohydrology"
Chairman, Jablonna, Poland, 1996
UNESCO MAB Synthesis Symposium "Fish and Land/inland Water Ecotones
Chairman, Zakopane, Poland, 1995
International Conference "Shallow Lakes-Trophic cascades"

Chairman of the Session, Mikolajki, Poland, 1995
International Workshop on "The Ecology and Management of Aquatic-Terrestrial Ecotones"
 University of Washington, Seattle, USA, 14-19 February 1994
"Ecological land use freshwater ecosystem conservation in rural regions during transformation times"
Chairman of the Polish- German Symposium, Spala, Poland, 1994
"Habitat Modification and Freshwater Fisheries", FAO EIFAC
Chairman of the Session, Lyon, France, 1993
"Ecotones at the river basin scale: global land/water interactions"
Keynote Speaker, UNESCO MAB Southern Hemisphere Workshop, Australia
"Fish and Land/inland Water Ecotones"
Co-Chairman, Co-Editor, UNESCO MAB Mid-term Symposium, Vienna/Luntz, Austria, 1992
World Fisheries Congress "Freshwater Habitat Management and Restoration in the Face of the Global Changes"
Keynote Lecturer, Athens, Greece, 1992
"Rehabilitation of Inland Fisheries" Conference
Chairman of the "Euthrophication and Biomanipulation" Session, University Hull, UK, 1992
International Ichthyological Congress
Chairman of the "Fish and Ecotones" Session The Hague, The Netherlands, 1991
"Wetland and riparian ecotones in landscape dynamics"
Invited Speaker, Oak Ridge National Laboratory USA, 1991
UNESCO MAB Seminar "Future Trends in MAB"
Invited Speaker, Tokyo, Japan, 1990
UNESCO MAB Symposium "Fish and Land /inland Water Ecotones"
Chairman, Krakow, Poland, 1990
FAO UN, Fisheries Society of British Isles and Institute of Fisheries Management
International Symposium "Fishing with Electricity"
Member of the Steering Committee and Chairman of the Session "Environmental Factors", Hull, UK, 1988
International Symposium on the Conservation of Inland Water "Aquarius"
Invited Speaker and Panel Member, Paris, France, 1987
International Symposium "Fish Production in Rivers", University of Lodz
Scientific Secretary, Lodz, Poland, 1985
Symposium Fisheries Society of British Isles "Scientific Basis of Fisheries Management"
Invited Speaker, Cardiff, UK, 1985
Symposium "Habitat Modification and Freshwater Fisheries" during the XIII Session of EIFAC FAO, UN
Opening Lecturer, Aarhus, Denmark, 1985

PROJECTS

Polish coordinator of international and national projects:

- MIKRAZO
- EXPEER
- ENVEUROPE (Life+, LIFE08 ENV/IT/000399)
- EKOROB (Life+, LIFE08 ENV/PL/000519)
- EH-REK (Life+, LIFE08 ENV/PL/000517)
- ALTER-Net (6 FP EU, GOCE-CT-2003-5052298)
- SWITCH (6 FP EU, GOCE 018530)
- COST Action FP0601 "Forest Management and the Water Cycle" (FORMAN) (2007-2010)
- COST Action 856 "Ecological Aspects of Denitrification, with emphasis on Agriculture"
- FAME (EC Project EVK1-CT-2001-00094)
- TOXIC (EC Project EC-EVK1-2001-00182)
- MIDI-CHIP-TOX (EC Project EC-EVK2-2002-00546)

INTERNATIONAL JOURNALS

Chief Editor

"Ecohydrology & Hydrobiology", Poland

Member of Editorial Board

"Fisheries Management and Ecology", UK

"Brazilian Journal of Biology", Brazil

"Journal of Environmental Accounting and Management", USA

SELECTED PUBLICATIONS

- Wagner I., Zalewski M. 2016. Temporal changes in the abiotic/biotic drivers of selfpurification in atemperate river. *Ecological Engineering* 94 (2016) 275–285.
- Zalewski, M. 2015, *Ecohydrology and Hydrologic Engineering: Regulation of Hydrology-Biota Interactions for Sustainability*, *Journal of Hydrologic Engineering*, volume 20, Issue 1.
- Zalewski, M. 2014, *Ecohydrology for Engineering Harmony in the Changing World*, *Handbook of Engineering Hydrology Fundamentals and Applications*, CRC Press, p. 79-96.
- Zalewski, M. 2014., *Ecohydrology, biotechnology and engineering for cost efficiency in reaching the sustainability of biogeosphere*. *Ecohydrology & Hydrobiology* 14(1):
- McClain, M.E., DuBowy, P.J., Zalewski, M. 2013. *Ecohydrology for harmonization of societal needs with the biosphere potential*. *Ecohydrology and Hydrobiology Journal* 13 (1) 2013 p. 3-5.
- Zalewski M., Izydorczyk K., Wagner I., Mankiewicz-Boczek J., Urbaniak M., Frątczak W. 2013. *Ecohydrology – transdisciplinary sustainability science for multicultural cooperation*. In: Griffiths J. and Lambert R. [Eds.] *Free Flow Reaching Water Security Through Cooperation*. UNESCO, Paris, France, pp 299-303.
- Zalewski M. 2013. *Ecohydrology: Process oriented thinking towards sustainable river basins*. *Ecohydrology and Hydrobiology Journal* 13(2) 2013, p. 97-103.
- Zalewski M., Wagner I., Frątczak W., Mankiewicz-Boczek J. and Parniewski P., 2012. *Blue-Green City for compensating Global Climate Change*. *The Parliament Magazine*, Issue 350.
- Zalewski M., 2012. *Ecohydrology – process oriented thinking for sustainability of river basins*. *Ecohydrol. Hydrol.* 12(2): 89-92.
- Zalewski M., Urbaniak M. (Eds.). 2012., *Adaptation of ecohydrological system solutions and biotechnologies for Africa*. II PAN ERCE, Łódź. ISBN: 978-83-928245-0-3, pp. 117.
- Zalewski M., 2011. *Ecohydrology for implementation of the EU water framework directive*. *Proceedings of the Institution of Civil Engineering Water Management* vol. 164 issue WM8, pp 375-385.
- Zalewski M., 2011. *Ecohydrology*. In *Encyclopedia of Agrophysics* Gliński, J., Horabik, J. and Lipiec, J. (Eds.) Springer, 1st Edition., 2011, 900 p., ISBN 9789048135868
- Zalewski M., 2010. *Ecohydrology for compensation of Global Change*. *Brazilian Journal of Biology* vol. 70 no. 3 (suppl.), 689-695.
- Zalewski M., Kiedrzyńska E., 2010. *System approach to sustainable management of inland floodplains – declaration on sustainable floodplain management*. *CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources*. doi: 10.1079/PAVSNR20105056.
- Zalewski M., 2009. *Regulation of biotic feedbacks by hydrology. Top-down effects*. 2009, (ISBN 978-989-20-1702-0), pp 69-73.
- Zalewski M., 2009, *Ecohydrology: A framework for reversing the degradation of the Baltic Sea*, *Baltex Newsletter*, Oct. 2009, pp 7-10.
- Zalewski M., 2009. *Ecohydrology for engineering harmony between environment and society*. *Danube News – May 09 – No. 19 – Vol. 11*, pp 2-4.
- Zalewski M., Robarts R., 2009. *WG Ecohydrology “Floodplain Declaration”—Perspectives for Transdisciplinary Limnology*. *SIL News* 2009, Vol. 55, 23-25.
- Chicharo L., Wagner I., Chicharo M., Lapinska M., **Zalewski M.**, 2009. *Practical experiments guide for Ecohydrology*. UNESCO, 122pp, (ISBN 978-989-20-1702-0).
- Henn T., Łapińska M., **Zalewski, M.**, Olšauskytė V., Skorupskas R., Briede A., Druvietis I., Gavrilova G., Parele E., Sprinģe G., Gaumiga R., Melnik M.M., Aleksandrov J.V. 2009. Chapter 16. *BALTIC AND EASTERN CONTINENTAL RIVERS*. In: Tockner K., Robinson C.T., Uehlinger U. (eds). *Rivers of Europe*. Elsevier, 700pp.
- Zalewski M., 2008. *Ecohydrology – framework for implementation of ecological biotechnologies in Integrated Water Resources Management (IWRM)*. *Folia Geographica* Vol. XXXIX: 55-62.
- Zalewski M., Wagner I., 2008. *Emerging opportunities for achieving the Millennium Development Goals*. In: *Water Quality for Ecosystem and Human Health*. 2nd Edition. UNEP GEMS/Water Programme, II PAS ERCE UNESCO, IAP Water Programme, 119pp.
- Zalewski M., Harper D., Demars B., Jolankai G., Crosa G., Janauer G. and Pacini N., 2008. *Linking Biological and Physical Processes at the River Basin Scale: the origins, scientific background and scope of Ecohydrology*. In: Harper D., Zalewski M., Pacini N., *Ecohydrology: Sustainable Management of Water Resources*, CAB International, London, 391pp.
- Kiedrzyńska E., Wagner-Łotkowska, I., **Zalewski, M.**, 2008. *Quantification of phosphorus retention efficiency by floodplain vegetation and a management strategy for a eutrophic reservoir restoration*. *Ecological Engineering* 33: 15-25.
- Zalewski, M. & Wagner, I. 2008. *Ecohydrology of urban aquatic ecosystems for healthy cities* [In:] Wagner, I. , Marshalek, J. and Breil, P. (eds). 2007. *Aquatic Habitats in Sustainable Urban Water Management: Science, Policy and Practice*. Taylor and Francis/Balkema: Leiden;

- Zalewski M., 2007. Ecohydrology as a Concept and Management Tool, (in:) King C., Ramkinssoon J Clüsener- Godt M. Adeel Z. (eds.) Ecohydrology as a concept and management tool. , UNU-INWEH UNESCO MAB, p. 39-53. Canada.
- Bednarek A., **Zalewski M.**, 2007. Management of lowland reservoir littoral zone for enhancement of nitrogen removal via denitrification. In: Okruszko T., Maltby E., Szatylowicz J., Świątek D., Kotowski W. (Eds). Wetlands: Monitoring, Modeling and Management, A.A. Balkema Publishers – Taylor & Francis Group, 293-299pp.
- Zalewski M. 2006. Flood pulses and river ecosystem robustness [In:] Tchiguirinskaia, I., Khin Ni Ni Thein, Hubert, P. (eds.) Frontiers in Flood Research, Kovacs Colloquium, UNESCO, Paris, June/July 2006, IAHS Publication 305
- Zalewski M. 2006. The Potential of Conversion of Environmental Threats into Socioeconomic Opportunities by Applying an Ecohydrology Paradigm, [In:] Burduzha, V. (ed.) 2006. The Future of Life and the Future of our Civilization
- Zalewski, M. 2006. Ecohydrology - an interdisciplinary tool for integrated protection and management of water bodies. Arch. Hydrobiol. Suppl. 158/4, p: 613-622
- Zalewski M & Wagner-Lotkowska I. (eds). 2004. Integrated Watershed Management – Ecohydrology and Phytotechnology-Manual. UNESCO IHP, UNEP IETC. 246pp.
- Zalewski M., Santiago-Fandino V. & J. Neate. 2003. Energy, water, plant interactions: "Green Feedback" as a mechanism for environmental management and control through the application of phytotechnology and ecohydrology. Hydrological Processes 17: 2753-2767.
- Zalewski M., R. Roberts. 2003. Ecohydrology – a new Paradigm for Integrated Water Resources Management. SIL News 40, Sep. 2003:1-5
- Zalewski M. (ed.). 2002. Guidelines for the Integrated Management of the Watershed – Phytotechnology and Ecohydrology. United Nations Environment Programme, Division of Technology, Industry and Economics. International Environmental Technology Centre. Freshwater Management Series No. 5, 188pp
- Zalewski M. 2002. Ecohydrology—the use of ecological and hydrological processes for sustainable management of water resources. Hydrological Sciences Journal 47(5):825-834
- Zalewski M. 2000. Special Issue on Ecohydrology. Ecological Engineering (*The Journal of Ecotechnology*) 16 nr 1, Ecohydrology – the scientific background to use ecosystem properties as management tools toward sustainability of water resources. Guest Editorial, Ecological Engineering 16:1-8.
- Zalewski M. 1999. Minimising the risk and amplifying the opportunities for restoration of shallow reservoirs. 107-114, In: D. M. Harper, B. Brierley, A.J.D. Ferguson & G. Phillips (eds.), The Ecological Bases for Lake and Reservoir Management. Hydrobiologia 395/396. Kluwer Acad. Publ. The Netherlands.
- Zalewski M., Bis B., Łapinska M., Frankiewicz P., W. Puchalski. 1998. The importance of the riparian ecotone and river hydraulics for sustainable basin-scale restoration scenarios. Aquatic Conservation: Marine and Freshwater Ecosystems. 8: 287-307.
- Zalewski M., Janauer G.S., G. Jolankai (eds.). 1997. Ecohydrology - A new Paradigm for the Sustainable Use of Aquatic Resources. International Hydrological Programme UNESCO. UNESCO IHP-V Technical Document in Hydrology No 7, Paris, 58 pp.
- Zalewski M. 1995. Freshwater Habitat Management and Restoration in the Face of Global Changes. In: N.B. Armantrout, ed. Condition of the world's aquatic habitats. Proceedings of the World Fisheries Congress, theme 1. Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi, 170-194.
- Zalewski, M. (ed.). 1995. Biological processes in the conservation and restoration of lowland reservoir. Biblioteka Monitoringu Środowiska. PIOŚ, ZES UŁ. Lodz. 240 pp (Polish version).
- Schiemer, F., **Zalewski M.**, J.H. Thorpe (eds.) 1995. The Importance of Aquatic-Terrestrial Ecotones for Freshwater Fish. "Developments in Hydrobiology" 105 ; Hydrobiologia 303: 1-3. 278 pp.
- Zalewski, M., W. Puchalski, P. Frankiewicz, B. Bis. 1994. Riparian ecotones and fish communities in rivers - intermediate complexity hypothesis. In: I. Cowx, ed. Rehabilitation of Freshwater Fisheries. Fishing News Books, Blackwell. Oxford, 152-160.
- Zalewski, M. (ed.) 1994. Integrated strategy of conservation and management of freshwater ecosystems. Biblioteka Monitoringu Środowiska. PIOŚ, ZES UŁ. Lodz. 159 pp (in polish).
- Schiemer, F., **Zalewski M.**, 1992. The importance of riparian ecotones for diversity and productivity of riverine fish communities. Netherlands Journal of Zoology. 42: 323-335.
- Zalewski, M. 1992. Percid fish as a tool for restoration of reservoir ecosystem, improvement of water quality and optimization of fishery yield. In: Aquaculture and Schistosomiasis. Proceedings of a Network Meeting, Manila, Phillipines, 6-10 Aug 1991, National Academy Press, Washington, D.C. 148-157.
- Zalewski, M., J.E. Thorpe, P. Gaudin.(eds.) 1991. Fish and Land/inland Water Ecotones UNESCO MAB. Univ. Lodz, Stirling & Lyon. 102 pp.
- Zalewski, M., Brewinska-Zaras, B., P. Frankiewicz. 1990. Fry communities as a biomanipulating tool in a temperate lowland reservoir. Arch. Hydrobiol. Beih. Ergebn. Limnol. 33:763-774.
- Zalewski, M., B. Brewinska-Zaras, P. Frankiewicz, S. Kalinowski. 1990. The potential for biomanipulation using fry communities in a lowland reservoir: Concordance between water quality and optimal recruitment. Hydrobiologia. 200/201: 549-556.

- Zalewski, M., I. Cowx. 1990. Chapter 3. Factors Affecting the Efficiency of Electric Fishing. In: I.G. Cowx & P. Lamarque, eds. *Fishing with Electricity*, Oxford, Fishing News Books. Blackwell Scientific Publications, 64-91.
- Zalewski, M., Naiman, R.J. 1985. The regulation of riverine fish communities by a continuum of abiotic-biotic factors. In: Alabaster, J.S. [Ed.] *Habitat Modifications and Freshwater Fisheries*. FAO UN, Butterworths, London. 3-9.
- Zalewski, M., P. Frankiewicz, B. Berwinska-Zaras. 1985. Factors limiting the growth and survival of brown trout introduced to different types of streams. *J. Fish. Biol.* 27: 59-73.
- Zalewski, M. 1983. The Influence of fish community structure on the efficiency of electrofishing. *Fish. Mgmt.* 14: 177-186.
- Penczak, T., W. Galicka, M. Molinski, E. Kusto, **M. Zalewski**. 1982. The enrichment of a mesotrophic lake by carbon, phosphorus and nitrogen from the cage aquaculture of rainbow trout, *Salmo gairdneri*. *J. Applied Ecol.* 19: 371-393.