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CURRICULUM VITAE

Work experience

- Deputy Director - European Regional Centre for Ecohydrology of the Polish Academy of Sciences
- Professor - ERCE PAS,
- Associate Professor - University of Lodz, Faculty of Biology and Environmental Protection, Department of Applied Ecology

Education

- Prof. ERCE PAS – 2016
- Habilitation – 2016
- PhD – 2007
- MSc – 2001

Main research areas

- Ecohydrology
- Catchment processes
- Transport and transformation of pollutants in the environment,
- Anthropogenic sources of pollution
- Wastewater quality and impact on surface waters
- Sequential wastewater biofiltration systems
- Flood sedimentation processes
- Pollution of the Baltic Sea

Research projects

Selected International Research projects:

- **PROM project implemented in the USA** "Wetlands mitigating harmful algal blooms" financed by NAWA (National Agency for Academic Exchange) for the implementation of scientific research and internship at Ohio State University, Columbus, in the USA, under the supervision of Prof. William J. Mitsch. Conducting water quality research at Olentangy River Wetland Research Park and Green Rivers, Niagara, as well as Lakes Erie, Ontario and Michigan, USA. Project implementation date: **2019**. Function: **Principal Investigator**.
- **Polish – French Project "Sustainable development and management of river catchments at the example of Rhone and Loire river in France"**. Project granted by Ambassade de France en Pologne and Institut Francais en Polone for scientific research in the Rhone and the Loire catchments in France. Project realised as a part of a scientific and research internship (Scientific Research Stay Scholarship, SSHN), which I was a laureate. Project co-funded by the Government of the Republic of France.

Project realised within the period 08-30.08.2015. Function: **Principal Investigator**.

- **EnvEurope – “Environmental quality and pressures assessment across Europe: the LTER network as an integrated and shared system for ecosystem monitoring”**. Project funded by the European Community under the financial instrument LIFE+, component "Policy and Management in the Field of Environment" (LIFE08 ENV/IT/000399). Project realised within the period **2010-2013**. Function: **Investigator**.
- **Polish – French Ministerial Cooperation Project “Enhancement of river ecosystem tolerance to human impact and harmonization with cultural heritage space in the condition of global change”**. The project was financed by the Ministry of Foreign Affairs of the Government of France and the Embassy of France in Warsaw. The project was realized in cooperation with the University François Rabelais in Tours (France). Project realised within the period **2007-2008**. Function: **Main Investigator**.
- **SWITCH – “Sustainable Water Management Improves Tomorrow’s Cities’ Health”**. The project was financed by the European Community within the 6th Framework Programme (EC – 018530-22006-2011). Project realised within the period **2006-2011**. Function: **Leader of working group** no. 6 and contractor of the project.
- **Pilica River Demonstration Project - “Application of Ecohydrology and Phytotechnologies for Water Resources Management and Sustainable Development”**. Demonstration project funded and implemented under the auspices of UNESCO and UNEP-DTIE-IETC. Project realised within the period **2003-2006**. Function: **Investigator**.
- **United States - Poland Technology Transfer Project: “Immobilizing of phosphorus and sediments loads in a lowland river floodplain”** (USPTTP08). Project realized in cooperation with the National Center for Computational Hydroscience and Engineering, University of Mississippi (USA), the Institute of Geophysics Polish Academy of Sciences and the University of Warsaw. Project realised within the period **2003-2004**. Function: contractor of the project and the person responsible for the realization of the project in the Department of Applied Ecology, University of Lodz. Function: **Investigator**.

Selected National projects:

- **“Use of artificial neural networks and methods in the field of pattern recognition for a complex catchment analysis of the impact of anthropogenic chemical and microbiological pollution on water resources” – Neuron**. Project financed by the National Science Centre, Poland (2015/19/B/ST10/02167). Project realised within the period **2016-2020**. Function: **Principal Investigator**.
- **“Development and implementation of innovative biotechnological products for agriculture and wastewater management in order to reduce water pollution” - Tango 2**. Project financed by the National Centre for Research and Development, Poland. Project realised within the period **2017-2021**. Function: **Main Investigator**.
- **“Diagnosis of the state of existing ecological processes and the hydrological conditions of the direct catchment of the planned water reservoir “Łask” on the Pisia river in Łask”**. Project financed by the Łask Municipal Office. Project realised in **2015, 2016, 2017**. Function: **Main Investigator**.
- **“Analysis of point sources pollution of nutrients, dioxins and dioxin-like compounds in the Pilica River catchment and draw up of reclamation methods”**. Project of the Ministry of Science and Higher Education, Poland (NN305 365758). Project realised within the period **2010-2013**. Function: **Principal Investigator**.

- **Project in the Program BRIDGE by Foundation for Polish Science - support for pregnant women pursuing research project** (No. 16/2010). The project implemented under the EU Programme Innovative Economy. Project realised in **2010**. Function: **Principal Investigator**.
- **“Application of methods of mathematical statistics and statistical pattern recognition theory to shaping of a lowland Pilica river floodplain for reduction of eutrophication of the Sulejów Reservoir and bioenergy production”**. Project of the Ministry of Science and Higher Education, the Committee for Scientific Research - 2 PO4F 053 28. Project realised within the period **2005-2007**. Function: **Main Investigator** of the project and the person responsible for the financial side of the project.
- **“Intensification of mineral and organic matter sedimentation and nutrients retention on a lowland river floodplain for the reduction of the nutrients load transported to the Sulejów Reservoir”**. Project of the of the Ministry of Science and Higher Education, the Committee for Scientific Research – young scientist project (3 PO4 F 08523). Project realised within the period **2002-2005**. Function: **Principal Investigator**.

Publications

1. Serwecińska L., **Kiedrzyńska E.***, Kiedrzyński M., **2021**. A catchment-scale assessment of the sanitary condition of treated wastewater and river water based on fecal indicators and carbapenem resistant *Acinetobacter* spp. ***Science of the Total Environment* 750** (2021) 142266 (* - corresponding author).
2. Harnisz M., **Kiedrzyńska E.**, Kiedrzyński M., Korzeniewska E., Czatzkowska M., Koniuszewska I., Jóźwik A., Szklarek S., Niestępski S., Zalewski M., **2020**. The impact of WWTP size and sampling season on the prevalence of antibiotic resistance genes in wastewater and the river system. ***Science of the Total Environment*. 741: 140466.**
3. Koniuszewska, I., Korzeniewska, E., Harnisz, M., **Kiedrzyńska, E.**, Kiedrzyński, M., Czatzkowska, M., Jarosiewicz, P., Zalewski, M., **2020**. The occurrence of antibiotic-resistance genes in the Pilica River, Poland. ***Ecohydrology and Hydrobiology* 20, 1–11.**
4. Czatzkowska M., Harnisz M., **Kiedrzyńska E.**, Kiedrzyński M., Koniuszewska I., Korzeniewska E., Szklarek S., Zalewski M., **2020**. Catchment scale analysis of occurrence of antibiotic resistance genes in treated wastewater. ***Ecohydrology and Hydrobiology* 20, 12–20.**
5. **Kiedrzyńska E.**, Kiedrzyński M., Zalewski M., **2020**. Zlewnia – dolina rzeczna – terasa zalewowa – rzeka. [W] Zalewski M. 2020. Ekohydrologia. PWN. Warszawa.
6. **Kiedrzyńska E.**, Zalewski M.,. **2020**. Rola terasy zalewowej w pochłanianiu ładunku biogenów. [W] Zalewski M. 2020. Ekohydrologia. PWN. Warszawa.
7. **Kiedrzyńska E.**, Urbaniak M., Kiedrzyński M., Zalewski M., **2020**. Hybrydowy sekwencyjny system biofiltracji ścieków (HSBS) dla małych oczyszczalni ścieków. [W] Zalewski M. 2020. Ekohydrologia. PWN. Warszawa.
8. Zalewski M., Izydorczyk K., **Kiedrzyńska E.**, Jarosiewicz P., Czerniawski R., **2019**. Ekohydrologia dla kompensacji antropopresji i łagodzenia skutków zmian klimatu w ekosystemach rzecznych. [W:] Funkcjonowanie i Ochrona Wód Płynących. Czerniawski Robert, Bilski Paweł (Red.). ISBN 978-83-7867-799-4, pp.327
9. Urbaniak M., **Kiedrzyńska E.**, Wyrwicka A., Zieliński M., Mierzejewska E., Kiedrzyński M., Kannan K., Zalewski M., **2019**. An ecohydrological approach to the river contamination by PCDDs, PCDFs and dl-PC Bs – concentrations, distribution and removal using phytoremediation techniques. ***Scientific Reports* 9:19310.**
10. **Kiedrzyńska E. 2018**. Biotecnologías ecohidrológicas: soluciones basadas en la

naturaleza para aguas continentales y mejoramiento de la calidad de las aguas residuales municipales. (Capítulo 6) [In] Albarracin, M., Gaona, J., Chícharo, L., Zalewski, M. 2018. Ecohidrología y su implementación en Ecuador. p.180. (in Spanish) ISBN 978-9942-35-805-9

11. Rewicz A., Tomczyk P., Kiedrzyński M., Zielińska K.M., Jędrzejczyk I., Rewers M., **Kiedrzyńska E.**, Rewicz T. **2018**. Morphometric traits in the fine-leaved fescues depend on ploidy level: the case of *Festuca amethystina* L. **PeerJ** 6:e5576.
12. **Kiedrzyńska E.**, Urbaniak M., Kiedrzyński M., Józwick A., Bednarek A., Gągała I., Zalewski M. **2017**. The use of a hybrid Sequential Biofiltration System for the improvement of nutrient removal and PCB control in municipal wastewater. **Scientific Reports** 7:5477. DOI:10.1038/s41598-017-05555-y
13. Kiedrzyński M., K. M. Zielińska, A. Rewicz, and **E. Kiedrzyńska** **2017**. Habitat and spatial thinning improve the Maxent models performed with incomplete data. **Journal of Geophysical Research: Biogeoscience**, 122: 1359–1370. (*J. Geophys. Res. Biogeosci.*) Doi:10.1002/2016JG003629.
14. Kiedrzyński M., Zielińska K.M., **Kiedrzyńska E.**, Rewicz A. **2017**. Refugial debate: on small sites according to they function and capacity. **Evolutionary Ecology**. 31(6): 815–827.
15. Kiedrzyński M., Kurowski J,K, **Kiedrzyńska E.** **2017**. Trade-off between light availability and soil fertility determine refugial conditions for the relict light-demanding species in lowland forests. **Acta Oecologica** 85:1-8. doi.org/10.1016/j.actao.2017.09.004.
16. Urbaniak M., **Kiedrzyńska E.**, Grochowalski A., **2017**. The variability of PCDD/F concentrations in the effluent of wastewater treatment plants with regard to their hydrological environment. **Environmental Monitoring and Assessment**. 189:90. DOI 10.1007/s10661-017-5794-9
17. Kiedrzyński M., Kurowski J.K., **Kiedrzyńska E.**, Maciejewski P., **2016**. Exceptionally Tall Individuals in a Relict Population of *Actaea europaea* (Schipcz.) J. Compton Against the Species of the Euro-Asiatic *Cimicifuga* Section. **Pol. J. Environ. Stud.** 25(2): 889-893.
18. **Kiedrzyńska E.**, Kiedrzyński M., Zalewski M., **2015**. Sustainable floodplain management for flood prevention and water quality improvement. **Natural Hazards** 76:955–977. <http://link.springer.com/article/10.1007%2Fs11069-014-1529-1>
19. Urbaniak M. and **Kiedrzyńska E.** **2015**. Concentrations and Toxic Equivalency of Polychlorinated Biphenyls in Polish Wastewater Treatment Plant Effluents. **Bulletin of Environmental Contamination and Toxicology** 95:530–535.
20. Urbaniak M., **Kiedrzyńska E.**, Kiedrzyński M., Zieliński M., Grochowalski A., **2015**. The Role of Hydrology in the Polychlorinated Dibenzo-*p*-dioxin and Dibenzofuran Distributions in a Lowland River. **Journal of Environmental Quality** 44:4, 1171-1182.
21. Kiedrzyński M., Zielińska K.M. **Kiedrzyńska E.**, Jakubowska-Gabara J. **2015**. Regional climate and geology affecting habitat availability for a relict plant in a flat landscape: the case of *Festuca amethystina* L. in Poland. **Plant Ecology & Diversity** 8: 3, 331–341.
22. **Kiedrzyńska E.**, Józwick A., Kiedrzyński M., Zalewski M., **2014**. Hierarchy of factors exerting an impact on the nutrient load of the Baltic Sea and sustainable management of its drainage basin. **Marine Pollution Bulletin** 88: 162-173. <http://dx.doi.org/10.1016/j.marpolbul.2014.09.010>
23. **Kiedrzyńska E.**, Kiedrzyński M., Urbaniak M., Magnuszewski A., Skłodowski M., Wyrwicka A., Zalewski M. **2014**. Point sources of nutrient pollution in the lowland river catchment in the context of the Baltic Sea eutrophication.. **Ecological Engineering** 70: 337-348. <http://dx.doi.org/10.1016/j.ecoleng.2014.06.010>
24. Skłodowski M., **Kiedrzyńska E.**, Kiedrzyński M., Urbaniak M., Zielińska K.M., Kurowski, J.K., Zalewski M., **2014**. The role of riparian willow communities in phosphorus

accumulation and dioxin control for water quality improvement in a lowland river. **Ecological Engineering** 70: 1-10. <http://dx.doi.org/10.1016/j.ecoleng.2014.03.088>.

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 26. Urbaniak, **Kiedrzyńska E.**, Kiedrzyński M., Mendra M., Grochowalski A. **2014**. The impact of point sources of pollution on the transport of micropollutants along the river continuum. **Hydrology Research** 45.3. 391-410.
 27. Kiedrzyński M., Zielińska K.M. **Kiedrzyńska E.**, Jakubowska-Gabara J. **2014**. Regional climate and geology affecting habitat availability for a relict plant in a flat landscape: the case of *Festuca amethystina* L. in Poland. **Plant Ecology & Diversity**. <http://dx.doi.org/10.1080/17550874.2014.904951>.
 28. Kiedrzyński M., **Kiedrzyńska E.**, Witosławski P., Urbaniak M., Kurowski J.K. **2014**. Historical land use, actual vegetation and the hemeroby levels in ecological evaluation of an urban river valley in perspective of its rehabilitation plan. **Polish Journal of Environmental Studies** 23: 1, 109-117.
 29. Magnuszewski A., **Kiedrzyńska E.**, Kiedrzyński M., Moran S., **2014**. GIS approach to estimation of the total phosphorous transfer in the Pilica River lowland catchment. **Quaestiones Geographicae** 33(3), 101-110.
 30. Urbaniak M., Wyrwicka A., **Kiedrzyńska E.**, Staniak S., Gałazka A., Tołoczko W., Siebielec G., **2014**. Problematyka przyrodniczego wykorzystania komunalnych osadów ściekowych. **Acta Innovations** 12: 35-48.
 31. **Kiedrzyńska E.** and Zalewski M. **2012**. Water Quality Improvement Through an Integrated Approach to Point and Non-Point Sources Pollution and Management of River Floodplain Wetlands. In: Voudouris K, Voutsas D. (eds). *Ecological Water Quality – Water Treatment and Reuse*. INTECH Open Access 325-342.
 32. Urbaniak M., **Kiedrzyńska E.**, Zalewski M., **2012**. The role of a lowland reservoir in the transport of micropollutants, nutrients and the suspended particulate matter along the river continuum. **Hydrology Research** 43.4, 400-411.
 33. **Kiedrzyńska, E.** and Zalewski, M. **2012**. River floodplain as purification system. In: Zalewski M. and Urbaniak M. (eds.) *Adaptation of ecohydrological system solutions and biotechnologies for Africa*. pp.117. ISBN:978-83-928245-0-3
 34. **Kiedrzyńska E.**, Urbaniak M., Kiedrzyński M., Skłodowski M., Zalewski M. **2012**. Punktowe źródła zanieczyszczeń jako zagrożenie dla jakości wód Pilicy (in polish) [Point sources pollution as a threat for Pilica water quality]. *Gaz, Woda i Technika Sanitarna* 6. 254-256.
 35. **Kiedrzyńska E.**, Macherzyński, A., Skłodowski, M., Kiedrzyński, M., Zalewski M. **2010**. Analiza punktowych źródeł zanieczyszczeń związkami biogennymi w zlewni Pilicy oraz wykorzystanie podejścia ekohydrologicznego dla ich redukcji (in polish). [Analysis of point sources of pollution of nutrients in the Pilica River catchment and use of ecohydrological approach for their reduction] W: A. Magnuszewski, (Red.), *Hydrologia w ochronie i kształtowaniu środowiska. Monografia Komitetu Środowiska PAN, [Hydrology in Environmental Protection and Management. Monograph of the Committee for Environmental Sciences PAS]* 69, 285 – 295.
 36. Zalewski, M. and **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*
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38. **Kiedrzyńska E.**, Wagner I., Zalewski M. **2008**. Quantification of phosphorus retention efficiency by floodplain vegetation and a management strategy for a eutrophic reservoir restoration. [doi:10.1016/j.ecoleng.2007.10.010](https://doi.org/10.1016/j.ecoleng.2007.10.010) **Ecological Engineering**, 33 (1): 15-25.
39. **Kiedrzyńska E.**, Kiedrzyński M., Zalewski M. **2008**. Characteristics and quantification of flood sediment deposition and phosphorus retention in a lowland river floodplain for water quality improvement and reduction of reservoir eutrophication. **Ecohydrology & Hydrobiology** Vol. 8. No 2-4, 281-289.
40. Magnuszewski A., **Kiedrzyńska E.**, Wagner-Łotkowska I., Zalewski M. **2007**. Numerical modeling of material fluxes on the floodplain wetland of the Pilica River, Poland. In: Okruszko T., Szatyłowicz J., Mirosław – Świątek D., Kotowski W., Maltby E. (Eds). *Wetlands: Monitoring, Modeling and Management*. A.A. Balkema Publishers – Taylor & Francis Group.
41. Sumorok B. and **Kiedrzyńska E.** **2007**. Mycorrhizal status of native willow species at the Pilica River floodplain along moist gradient. In: Okruszko T., Szatyłowicz J., Mirosław – Świątek D., Kotowski W., Maltby E. (Eds). *Wetlands: Monitoring, Modeling and Management*. A.A. Balkema Publishers – Taylor & Francis Group. p.281-286.
42. **Kiedrzyńska E.** & Józwiak, A. **2006**. Application of statistical methods for analysing of the dependencies between the Pilica river discharge characteristic and suspended sediment transport. *Infrastructure and Ecology of Rural Areas* 3/4: 45-53.
43. Altinakar M., **Kiedrzyńska E.**, Magnuszewski A. **2006**. Modelling of inundation pattern at Pilica river floodplain, Poland. *Climate Variability and Change—Hydrological Impacts*. Proceedings of the Fifth FRIEND World Conference held at Havana, Cuba, November 2006. **IAHS Publ. 308**: 579-585.
44. Kaczorowski D., Sekulska-Nalewajko J., **Kiedrzyńska E.** **2006**. Three-dimensional model of flooding of the river floodplain - visualization of ecohydrological interactions. 2nd International Conference on Perspective Technologies and Methods in MEMS Design. 24 - 27 May 2006. Polyana, Ukraine.
45. Bieniecki W., **Kiedrzyńska E.** **2006**. The study of requirements for the system of automatic measurement of vegetation cover in river catchments. Proceedings of the International Conference TCSET'2006 Modern Problems of Radio Engineering, Telecommunication and Computer Science. 28 February – 4 March 2006, Lviv-Slavsko, Ukraine. p. 355-356.
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Organisational memberships and other activity

- Member of the Polish Committee of UNESCO Hydrological Program for the term 2019-2022:
- Member of the Editorial Boards:
 - **Scientific Reports** - Journal from the publishers of *Nature* (2-year impact factor: 4.122, 5 year impact factor: 4.609) – since: May 2018 – to: currently
 - **Ecohydrology & Hydrobiology**. Elsevier imprint. Journal established in the framework of UNESCO International Hydrological Programme. – since: 2017 – to: currently
- Member of the Scientific Committee of the International Conference:
 - „**International Symposium of Ecohydrology and Water Security: Opportunities & Challenges from Developing Countries**” 16-18 October, 2018 Xi'an, Shaanxi, China.
 - “**2nd African International Symposium – Ecohydrology for water, biodiversity, ecosystem services and resilience in Africa**”. Organizers: Ministry of Water, Irrigation and Electricity in Ethiopia, **Co-organizers:** UNESCO International Programme, Ecohydrology Program in France. European Regional Centre for Ecohydrology of the Polish Academy of Sciences. **Date and Place:** 7-11.11.2016, **Addis Ababa, Ethiopia**
 - **International Conference “Ecohydrology 2015 - Measuring, Modelling and Managing of the natural processes related to water flows. Social values of the linked ecosystem services”**. **Organizers:** IRSTEA - Institut National de Recherche en Sciences et Technologies pour l'Environnement et l'Agriculture, Lyon, France – Dr Pascal Breil (scientific secretary), Lyon, France. **Co-organizers:** CNRS (Le Centre National de la Recherche Scientifique, Lyon, France), Institut des Sciences Analytiques (Université de Lyon, UCB Lyon1, Villeurbanne, France), Microbial Ecology Centre (Université Claude Bernard Lyon 1, Villeurbanne, France). Honorary patronage: UNESCO IHP VIII. **Date and Place:** 21-23.09.2015, **Lyon, France**.
- Scientific Secretary and organizer of the international symposia:
 - **International Floodplain 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”**. **Organizer:** European Regional Centre for Ecohydrology under the auspices of UNESCO, Lodz, Poland. **Co-organizers:** Department of Applied Ecology (University of Lodz, Poland), US Corps of Engineers (USA), International Centre for Water Hazard and Risk Management u/a of UNESCO (Tsukuba, Japan), UNESCO-IHE (The Netherlands), Joint Research Centre (European Commission, Ispra, Italy), University of Algarve (Portugal), Tours University (France). **Patronage:** International Hydrological Programme UNESCO and InterAcademy Panel Water Programme. **Honorary patronage:** Ministry of Science and Higher Education, Ministry of Environment, President of the Lodz City, Ramsar Convention on Wetlands. **Date and Place:** 19 – 23.05.2008, **Łódź, Poland**.
 - **Opening Symposium the European Regional Centre for Ecohydrology under the auspices of UNESCO, connected with International Workshop on INTEGRATION 4 WATER (EU RTD 6 FP project)**. **Organizer:** Polish Academy of Sciences, University of Lodz. **Honorary patronage:** UNESCO IHP, Ministry of Science and Higher Education, Ministry of Environment, President of the Lodz City. **Date and Place:** 30-31.05.2006, **Łódź, Poland**.
- Member of the Scientific Committee of the National Conference:
 - **4th National Scientific Conference of PhD Students of Life Sciences "BioOpen", 24-25.05.2018, University of Lodz, Lodz, Poland**

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- Main Awards and distinctions**
- 2019 - Scientific Award of the Rector of the University of Lodz** (Team Award) for the series of publications entitled "Lowland forests under anthropogenic pressure in the perspective of climate change: identification and modeling of refuges of valuable flora elements and its diversity, refugial habitats and ecosystem services".
- 2015 - Winner of the competition for scientific and research internships and the BFG Scholarship Award** of Ambassade de France en Pologne and Institut Francais en Polone Scholarships). A scholarship funded by the Government of the French Republic. The research visit took place at the François Rabelais University in Tours, France (Prof. J.P. Berton and Dr. S. Greulich), 8-30.08.2015, Chambéry-Tours, France.
- 2006 - Scientific Award of the President of Lodz City** for outstanding research and artistic works performed specifically to promote Łódź as a scientific and cultural center. Award for co-authorship of a series of publications relating to the formulation and application of the Ecohydrology concept to improve the quality of inland waters.
- 1992 - Scientific Award of the Ministry of Environmental Protection, Natural Resources and Forestry** for the second place in the national competition "The region where I live", Warsaw, 1992. The prize fund included a flight and a week's stay at 'International Ecological Workshop', 7-14.07.1992, Svendborg, Denmark.
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