

**OERTLI** Nationalities: Swiss and French Born 18<sup>th</sup> April 1959  
**Beat** Academic title: Dr, Prof. HES

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#### POSITION HOLD (SINCE 2003):

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- Professor, at the University of Applied Sciences and Arts Western Switzerland (hepia-Lullier),
- Head of the Research Institute “inTNE” (Land - Nature - Environment) and of the Laboratory of Ecology,
- Coordinator of the orientation " *Natural Resource Management in Catchment*" (Master Life Sciences HES)

#### OTHER SCIENTIFIC CHARGES

- *Swiss Society for Hydrology and Limnology* (SGHL): Vice-President 2017, President 2014-2016.
- *European Pond Conservation Network* (EPCN): Treasurer (2005-2017)
- Swiss representative in the Steering Committee of the *European Federation for Freshwater Science* (EFFS) (since 2012)
- Ambassador of the « *Geneva Convention Bureau* » (*Geneva Ambassador Program* ; linked to the organization of scientific conferences) (since 2015)

#### SELECTION OF OTHER SCIENTIFIC ACTIVITIES

- Associate Editor of *Hydrobiologia* (IF 2.0; 2008-2016) and of *Aquatic Conservation* (IF 2.4; since 2017)
- Reviewer for various journals (near 400 papers reviewed): *Oikos*, *Ecology*, *Global Change Biology*, *Biological Conservation*, *Biodiversity and Conservation*, *Journal of Applied Ecology*, *Freshwater Biology*, *Ecography*, *Hydrobiologia*, *Aquatic Science*, *Aquatic Ecology*, *Plant Ecology*, *Environmental Pollution*, *Intern. Rev. Gesamt. Hydrobiol.*, *Ecological Indicators*, *Annales Limnologie*, *Wetlands*, *Basic and Applied Ecology*, *Aquatic Conservation*, *Limnetica*, *Insect Conservation and Diversity*, *Archives des Sciences*, *Revue Suisse de Zoologie*.
- Organisation of International conferences (steering or scientific committee): 1<sup>st</sup> to 7<sup>th</sup> *European Pond Conservation Network*, 2004 (chairmen) to 2017; *Wetlands* 2014 and 2017; *Swiss Geosciences Meeting* 2014 to 2016; *Symposium for European Freshwater Sciences* 2015 (chairmen) and 2017; *INTECOL* 2021.
- Examiner for 18 PhD thesis (University of Rouen, University of Toulouse (3x), University of Marseille, University of Corte, EAWAG Zürich, EPFL Lausanne, University of Dublin (2x), University of Girona, Swedish University of Agricultural Sciences, University of Leuven, University of Malta, University of Geneva (4x)) or Masters thesis (University of Geneva, University of Lausanne, University of Lyon I, Engineer School ISARA Lyon, University of Stellenbosch S-Afr)

#### ACADEMIC EDUCATION

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- 1977, Baccalauréat D (mathematics and nature sciences), Pau (France, 64).
- 1979, Diplôme Universitaire de Technologie, Biologie appliquée, Perpignan (France, 66).
- 1986, Master in Biology, University of Geneva (Switzerland).
- 1992, Doctor Thesis (Biological Sciences), University of Geneva (Switzerland).

#### ANTERIOR POSITIONS

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- 1996 to 2002; **Biologist**, University of Geneva (Laboratory of Ecology and Aquatic Biology), Switzerland.
- 1994-1995; **Lecturer**, Centre Supérieur de Perfectionnement Agricole, Nantes (F).
- 1987 à 1993; **Biologist**, University of Geneva (Laboratory of Ecology and Aquatic Biology), Switzerland.
- 1987 à 1992; **Assistant**, Department of Zoology and Animal Biology, University of Geneva, Switzerland.

#### SELECTION OF CONFERENCES (ORAL COMMUNICATION)

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- Society for Urban Ecology (SURE): 2015 (Bucharest, Romania), 2016 (Shanghai, China):
- Joint Aquatic Sciences Meeting, 2014 (Portland, USA)
- International Conference on “Challenges in Aquatic Sciences”, 2013 (Keelung, Taiwan)
- International Society for Limnology : 2007 (Montreal, Canada), 2010 (Cape Town, South-Afr.)
- American Society for Limnology and Oceanography : 2009 (Nice, France).
- Symposium for European Freshwater Sciences: 2001 (Toulouse, France), 2004 (Edinburgh, Scotland), 2007, 2009 (Romania), 2013 (Germany), 2015 (Geneva)
- Society for Conservation Biology: 2006 (Brasilia, Brazil), 2009 (Prague, Check Republic), 2012 (Scotland)
- European Pond Conservation Network: 2004, 2006, 2008, 2010, 2012, 2014, 2017

Selection of Research Programs (coordination):

Year(s)	Main Source of Finances	Topic
2014-2016	Univ. Appl. Sc. West. Switzerland	Assessment of the threat associated with exotic species in urban waterbodies. Investigation on aquatic plants.
2014-2016	Swiss Agency for Environment	Adaptation to climate change: restoration of freshwater systems in the Alps for conservation of Alpine biodiversity.
2013-2014	Swiss Agency for Environment	Biodiversity in Gravel pits from Switzerland.
2012-2013	Swiss Agency for Environment Canton Geneva	Biodiversity in Urban Ponds
2011-2012	RealTech Network – Univ. Appl. Sc. West. Switz.; Canton VS	Restoration of aquatic habitats for sustaining migration of alpine aquatic biodiversity
2007-2011	French Agency for Environment	Fishponds management and aquatic biodiversity
2006-2007	RealTech Network – University Appl. Sciences Western Switzerland	Standardised methods for the assessment of ecological quality of waterbodies
2007-2009	Foundation MAVA	Development of the <i>European Pond Conservation Network</i> ( <a href="http://www.epcn.org">www.epcn.org</a> ).

SELECTION OF PUBLICATIONS. FOR A FULL LIST SEE: [HTTP://CAMPUS.HESGE.CH/IBEM/EISA/BO\\_FR.HTML](http://campus.hesge.ch/ibem/eisa/bo_fr.html)

- Ilg C. & **Oertli B.** 2017. Effectiveness of amphibians as biodiversity surrogates in pond conservation. *Conservation Biology* 31, 437-445.
- Alahuhta, J., M. Akasaka, D. Auderset, M. L. Azzella, A. Balázs, R. Bolpagni, C. Bove, P. Chambers, E. Chappuis, C. Ilg, J. Clayton, M. de Winston, F. Ecke, E. Gacia, G. Gecheva, P. Grillas, J. Hauxwell, S. Hellsten, J. Hjort, M. V. Hoyer, A. Kolada, S. Kosten, M. Kuoppala, T. Lauridsen, E.-H. Li, M. Mjelde, A. Mikulyuk, R. P. Mormul, J. Nishihiro, **B. Oertli**, L. Rhazi, M. Rhazi, L. Sass, C. Schranz, M. Søndergaard, T. Yamanouchi, Y. Qing, H. Wang, N. Willby, X.-K. Zhang, and J. Heino. 2017. Global variation in the beta diversity of lake macrophytes is driven by environmental heterogeneity rather than latitude. *Journal of Biogeography*: in press.
- Wissinger S.A., **Oertli B.** & Rosset V. 2016. Invertebrate Communities of Alpine Ponds. In: *Invertebrates in freshwater wetlands: an international perspective on their ecology*. (eds. Batzer DP & Boix D). Springer Dordrecht, p. 55-103.
- Rosset, V., Angélibert, S., Arthaud, F., Bornette, G., Robin, J., Wezel, A., Vallod, D., & **Oertli, B.**, 2014. Is eutrophication really a major impairment for small waterbody biodiversity? *J. Appl. Ecology* 51, 415-425.
- Ilg, C. & **B. Oertli**. 2014. How can we conserve cold stenotherm communities in warming Alpine ponds? *Hydrobiologia* 723, 53-62.
- Rosset, V. & **B. Oertli**. 2011. Freshwater biodiversity under climate warming pressure: identifying the winners and losers in temperate stagnant waterbodies. *Biological Conservation* 144: 2311–2319.
- Menetrey, N., **Oertli, B.** & Lachavanne, J. B. 2010. The CIEPT: a macroinvertebrate-based multimetric index for assessing the ecological quality of Swiss lowland ponds. *Ecological Indicators* 11: 590-600.
- Rosset, V., A. Lehmann & **B. Oertli**. Warmer and richer? 2010. Predicting the impact of climate change on species richness in small temperate waterbodies. *Global Change Biology* 16: 2376-2387.
- Indermuehle, N., Angélibert, S., Rosset, V., & **Oertli, B.** 2010. The Pond Biodiversity Index “IBEM”: a new tool for the rapid assessment of biodiversity in ponds from Switzerland. *Limnetica* 29: 105-120.
- Oertli, B.** et al. (Eds), 2010. *Pond Conservation in Europe*. Developments in Hydrobiology 210. Springer, Dordrecht. 386 pp.
- Robinson, C.T., **Oertli, B.**, 2009. Long-term biomonitoring of alpine waters in the Swiss National Park. *eco.mont* 1, 23-34.
- Oertli, B.** 2008a. The use of dragonflies in the assessment and monitoring of aquatic habitats, In *Dragonflies and Damselflies : Model Organisms for Ecological and Evolutionary Research*. ed. A. Córdoba-Aguilar, pp. 79-95. Oxford University Press, Oxford, New York
- Oertli, B.**, Indermuehle, N., Angélibert, S., Hinden, H. & Stoll, A. 2008. Macroinvertebrate assemblages in 25 high alpine ponds of the Swiss National Park (Cirque of Macun) and relation to environmental variables. *Hydrobiologia* 597 : 29-41.
- Hinden, H., **Oertli, B.**, Menetrey, N., Sager, L. & Lachavanne, J. B. 2005. Alpine pond biodiversity: what are the related environmental variables? *Aquatic Conserv.* 15: 613-624.
- Menetrey, N., Sager, L., **Oertli, B.** & Lachavanne, J. B. 2005. Looking for metrics to assess the trophic state of ponds. *Macroinvertebrates and Amphibians*. *Aquatic Conserv.* 15 : 653-664.
- Oertli, B.**, Auderset Joye, D., Castella, E., Juge, R., Lehmann, A. & Lachavanne, J.-B. 2005. PLOCH: a standardised method for sampling and assessing the biodiversity in ponds. *Aquatic Conserv.* 15 : 665-679.
- Oertli, B.** et al. 2002. Does size matter? The relationship between pond area and biodiversity. *Biological Conservation* 104:59-70.