

## Curriculum vitae

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### Personalia

Alain Jean-Pierre De Vocht

° Turnhout 24-12-1960

Nationality: Belgian

Married to Monique Van Erum

Children: Heleen (° 19/01/91), Karlijn (° 05/06/93), Andries (° 05/05/95), Marlien (26/02/99) en Lauranne (°14/12/00)

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### Studies

Secondary school: Eymard-Instituut,  
Oude Diestersebaan 5,  
B-3920 Lommel  
Latin-Greek

University: Kandidate (Bachelor) in Biological Sciences  
1980  
Limburgs Universitair Centrum  
Degree: distinction

Licentiate (Master in Science) in Zoology - Sciences  
1983  
University of Gent  
Degree: distinction  
M. Sc. thesis: Growth of some fish species in public angling waters in Flanders.  
Aggregation for the Higher Secondary Education  
1987  
Katholic University of Leuven

Degree: distinction

Doctor in Sciences

26 March 1992

Limburgs Universitair Centrum

Degree: greatest distinction

Title Ph.D thesis: Anatomy and ultrastructure of the proboscis in Eukalyptorhynchia (Platyhelminthes, Rhabdocoela).

Title of additional thesis: The functionality of spawning places as a habitat for YOY fishes is not determined by their suitability as a foraging habitat but by the suitability of these places to protect YOY fishes against predation.

Promotor: Prof. Dr. E. Schockaert

#### Additional education

- Interuniversity Third cycle Marine Ecology 1986-1987.
- 'Fishing with electricity' 22-23/05/96
- 'Fishing with electricity' BA5.
- 'Integrated Water management Prof. Dr. P. Meire March-April 1997
- 'Methodological approaches for the discipline flora and fauna in environmental risk assessment. Institute for Nature conservation: 25/09/1997.

#### **Professional occupations**

- from 9- 1983 - 10- 1984: junior researcher als I.W.O.N.L.-scholarship to the Laboratory for Morphology en Systematics of Animals (Prof. Dr. A. Coomans), University Gent.  
Research topic: Growth and food preference of 0+- Perch, Pikeperch and Bream in Lake Donk (Belgium).
- from 11-1984 - 8-1990: scientific assistant in the group Biology, research group Zoology (Prof. Dr. E. Schockaert) of the Limburgs Universitair Centrum.  
Research topic (Ph.D): Electron microscopic research of the proboscis in Eukalyptorhynchia (Turbellaria, Rhabdocoela)
- from 8-1990 - 2-1996: scientific assistant of the Milieucel-V.V.H.V. and the research group Zoology (Prof. Dr. E. Schockaert) of the Limburgs Universitair Centrum. Different research topics.
- from 3-1996 - 2025: senior researcher in the research group Environmental Biology of Centre for Environmental Sciences of the Limburgs Universitair Centrum. Different research topics.
- 2005-2015: professor PXL University College, Research coördinator PXL BIO-Research

#### **Research experience**

- 30 year research experience in Zoology (Ichthyology, Invertebrate morphology) and Environmental research (Fishery research, Nature development, Aquatic ecology, Ecotoxicology)

#### **Study leaves abroad**

- Two visits (of two weeks) in the biological station (Stareso) of the University of Liège at Calvi (Corse, France): study of interstitial and periphytic Turbellaria
- Two visits in the "Biologische Anstalt Helgoland, Litoral Station" List, Sylt, Germany, 20-25 September 1985 en April 1988.
- April en October 1987. Fondation oceanographique Ricard, Ile des Embiez France.
- 7-16 October 1987. Laboratoire Arago Banyuls-sur-Mer, France
- June 1988, four weeks in the "Museum of Natural History, section of Invertebrate Zoology" prof.dr. T. Karling and in the "Marine Biological Station" at Kristineberg (Fiskebackskil) with prof. dr. J.O. Strömberg (Sweden).

### **Participation in International symposia**

- Fifth International Symposium on the Biology of "Turbellarians", 9-14 August 1987, Gottingen Germany (with lecture and poster).
- Prospects in Systematics 1-3 juli 1987 London, England.
- S.V.I.M.C.O., Seventh International Meiofauna conference, 21-25 August, Vienna, Austria. (with lecture and poster)
- Sixth International Symposium on the Biology of Turbellaria, 7-12 August 1990, Hirosaki, Japan. (with lecture and poster)
- Symposium : The environmental quality of the river Meuse. Maastricht, 30 juni 1995 (with lecture).
- Surface Water Pollution as a part of the Environmental problems in the Euregio Meuse-Rhine. Aken 27 november 1996. Organisatie : ALMA. (with lecture)
- Benelux Congress of Zoology, 1999. Brussel (with lecture)
- Third International Recreational fishing conference. 21-24 Darwin, Australië (with lecture).
- Symosium 'Vismigratie en visdoorgangen in Vlaanderen, naar het herstel van een vrije migratie van vissen in onze waterlopen'. Brussel, 14 juni 2002 (met lezing).
- Workshop 'Vismigratie in Maas en Limburgse en Brabantse Beken en Rivieren. Elsloo, 30 september 2002 (with presentation).
- First International Scientific Meuse-symposium (ICBM), Maastricht. 27-28 november 2002 (with poster, co-presentation).
- Workshop 'Integraal Waterbeheer en Actief Bodembeheer: omgaan met verontreiniging van oevers en overstromingsgebieden' Diepenbeek, 12 december 2002 (organisation, presentation)
- Fifth Conference on Fish Telemetry held in Europe. Ustica, Italië. 9-13 juni 2003 (with presentation).
- Workshop 'Biotelemetry – procedures and applications. Ustica, Italië, 14 juni 2003.
- Workshop 'Telemetry Data Analysis – Animal Movement' Usica, Italië 14 juni 2003.
- CASI-SWIR workshop, Results of the joint British-Belgian CASI-SWIR 2002 flight campaign. Brugge, 4 september 2003 (with presentation).
- Workshop 'Lage afvoer Grensmaas'. RIZA-RWS, Sittard 1 december 2003 (with presentation).

- Fourth World Fisheries Conference, 2-6 mei 2004 Vancouver, Canada (with presentation).
- Sixth International Symposium on Sediment Quality Assessment. 7-20 augustus 2004. Antwerpen, België. (with presentation).
- Workshop 'Kan ruimings- en baggerspecie op de oever?' Brussel, 25 oktober 2004 (with presentation).
- Workshop KVIV: Milieu-impact van wateroverlast en overstromingen. Antwerpen, 17 november 2004.
- World recreational fishing conference, Noorwegen, Trondheim, 12-16 juni 2005 (met lezing).
- Course Natuurtechnische milieubouw – Themadag hermeandering: 28 april 2006. Mol (with presentation).
- 2<sup>de</sup> International Maassymposium. Frankrijk, Sedan, 18-19 mei 2006 (with poster).
- Workshop Duurzaam Roofvisbeheer: van wetgeving tot hengelplezier. Brussel 23 november 2006
- Workshop 'Mogelijkheden voor ecologisch herstel van watersystemen. 8 maart 2007. Katholieke Universiteit Leuven (met lezing).
- Course Natuurtechnische milieubouw – Themadag hermeandering: 28 april 2007. Heverlee (met lezing).
- 4th International Conference on River restoration, Italië, Venetië 16-21 juni 2008 (with presentation)
- 6th European Conference on Ecological Restoration, België, Gent 8-12 september 2008 (with presentation and poster)
- First symposium on Enhanced landfill mining and the transition to sustainable materials management. 4-6 October 2010, Molenheide (Houthalen-Helchteren, Belgium) (with poster)
- 4th World Conference on Ecological Restoration, Merida, Mexico 20-25 augustus 2011 (with presentation)
- European River Restoration Conference; 5th edition, Wenen 11-13 sept. 2013. (with two posters)
- 10<sup>de</sup> Waterforum, Brussel 23 sept. 2013. (with 3 posters).

### **Lectures en posters on national and international symposia**

#### *Lectures*

- De Vocht, A. : Ultrastructure and organisation of the proboscis in *Cicerina remanei* (Platyhelminthes, Rhabdocoela). Fifth International Symposium on the Biology of Turbellaria, 9-14 August 1987, Gottingen Germany.
- De Vocht, A. : The proboscis in Eukalyptorhynchia (Platyhelminthes, Rhabdocoela): some phyletic considerations. SVIMCO, Seventh International Meiofauna conference, 21-25 August '89, Vienna, Austria.
- De Vocht, A. : The anatomy and ultrastructure of the proboscis in *Mesorhynchus terminostylis* (Platyhelminthes, Rhabdocoela). SISBT, 7-12 August 1990, Hirosaki, Japan.
- De Vocht, A. : The environmental quality of the river Meuse: Ecological aspects. Symposium : The environmental quality of the river Meuse. Maastricht, 30 June 1995.

- De Vocht, A. and J. Van Gronsveld : Transfer of heavy metals from the soil into plants in de river plain of the river Meuse. Grensmaas discussiedag, Stokkem 3 en 4 June 1996. Organisation : Rijkstinstituut voor Integraal Zoetwaterbeheer en Afvalwaterbehandeling RIZA, Netherlands.
- De Vocht, A. : Ecological and ecotoxicological aspect of Surface Water Pollution. Symposium : Surface Water Pollution as a part of the Environmental problems in the Euregio Meuse-Rhine. Aachen 27 November 1996. Organisation : ALMA.
- De Vocht, A. J.-P. & E.R. Schockaert, 1999. The anatomy and ultrastructure of the proboscis in *Zonorhynchus*-species and the implications for the phylogenetic relationships within the Eukalyptorhynchia Meixner, 1928 (Platyhelminthes, Rhabdocoela. Brussels, November 1999. BCZ.
- De Vocht, A. J.P & Denayer, 2002. Assessing the impact of recreational fisheries on nature using a vulnerability approach and GIS in Flanders, Belgium. Third International Recreational fishing conference. 21-24 Darwin, Australië
- De Vocht, A. 2002. Obstruction for fish migration: more than obstruction of migration alone. Studiedag Vismigratie en visdoorgangen in Vlaanderen, naar het herstel van een vrije migratie van vissen in onze waterlopen. Brussel, 14 juni 2002.
- De Vocht, A. 2002. Barbel in the Meuse; Meuse barbel or Geul barbel. Workshop on fish migration in the Meuse and rivulets in Limburg and Brabant. 30 September 2002, Elsloo, Netherlands
- De Vocht, A. 2002. Barbel in the Meuse. Combination Juliana 14 December 2002, Stein, Netherlands.
- P. Kestemont, D. Goffaux, J. Breine, C. Belpaire, N. Roset, J.C. Philippart, E. Baras, A. De Vocht, J. De Leeuw & P. Gérard Communautés piscicoles et habitat des poissons dans la Meuse. First International Scientific Symposium on the Meuse (ICBM) 27-28 November 2002.
- De Vocht A. 2002. Ecological risks of soil contamination by floods in polluted rivers. Diepenbeek, 12 December 2002.
- De Vocht A., P. Seuntjens, C. Huybrechts, C. Van Hoof, L. Bertels & I. Reusen. 2003. Detection of contaminants in solid materials and plants. CASI-SWIR workshop Brugge 4 september 2003.
- De Vocht A. 2003. Ruimte voor Water. Infoavond Water n.a.v. het openbaar onderzoek van het Provinciaal Milieubeleidsplan. Tongeren, 9 september 2003.
- De Vocht A. 2003. De Grensmaas: ideaal biotoop voor riviervissen? Mosafly, Lanklaar 15 november 2003.
- De Vocht A, 2003 Effecten van lage afvoer op Barbeel en Kopvoorn in de Grensmaas. Workshop 'Lage afvoer Grensmaas' Sittard, 1 december 2003.
- De Vocht A. en B. Denayer. 2004. Reconciling inland recreational fisheries with nature conservation in Flanders, Belgium: assessing site-specific vulnerability. Vancouver, Canada.
- De Vocht, A., A. Ruttens, P. Seuntjens, M. Vanghelue en F. Goeteyn. Evaluation and evolution of phytotoxicity of dredged contaminated river sediments. Sixt International Symposium on Sediment Quality Assessment. 7-20 augustus 2004. Antwerpen, België.
- De Vocht A., P. Seuntjens, M.Vangheluwe en F. Goeteyn. 2004. De milieu-effecten van deponie van ruimingsspecie op de oever. Studiedag VITO-AMINAL-

- afd. Water 'Kan ruimings- en baggerspecie op de oever ?' Brussel, 25 oktober 2004.
- De Vocht A. 2004. Ecologische en ecotoxicologische effecten van overstromingen en slibruiming. Studiedag KVIV: Milieu-impact van wateroverlast en overstromingen. Antwerpen, 17 november 2004.
  - De Vocht A., W. Vandecruys, B. Denayer en K. Vlietinck. 2005. Differences in profile and economic valuation of angling on public angling waters in Flanders (Belgium): consequences for financing recreational fisheries management. World recreational fishing conference, Norway Trondheim.
  - De Vocht A. en Aubroeck B. 2007. Ecologisch herstel van twee nieuwe beektrajecten in de Voorste en Witte Nete in Dessel. Leuven. 8 maart 2007.
  - De Vocht A., Aubroeck B. en Hendig P. 2007. Omlegging en hermeandering van de Voorste en de Witte Nete in Dessel. Heverlee Themadag Natuurtechnisch herstel van waterlopen 20 april 2007.
  - De Vocht A., Aubroeck B., Buttiens A en Nuyts W. 2008. Ecological evaluation of a technically restored lowland watercourse in Flanders, Belgium. 4th Int. Conf. On River Restoration, Venetië, Italië 16-21 juni 2008.
  - De Vocht A. en Aubroeck B. 2008. Ecological restoration of a lowland stream with populations of Bullhead (*Cottus gobio/perifretum*) and Spined loach (*Cobitis taenia*) in Flanders, Belgium. Gent, België 6th Eur. Conf. On Ecological Restoration 8-12 september 2008.
  - De Vocht A. 2011. Restoring landfill covers in to Nature 2000 habitats. 4th World Conference on Ecological Restoration, Merida, Mexico, 20-25 augustus 2011.
  - De Vocht A. & Descamps S. 2011. Remeandering and ecological restoration of a lowland stream in Belgium. 4th World Conference on Ecological Restoration, Merida, Mexico, 20-25 augustus 2011.
  - De Vocht, A. 2012. Biomassa: van last tot lust. Studiedag Platform Openbaar Groen. 02 februari 2012. Hasselt, België.
  - De Vocht A. 2013. Remeandering and ecological restoration of a lowland stream in Belgium. Restore Workshop, 25-26 juni 2013, Utrecht.

#### *Posters*

- De Vocht, A. : Peculiar sensory cells associated with the proboscis in Eukalyptorhynchia (Platyhelminthes, Rhabdocoela). Fifth International Symposium on the Biology of Turbellaria, 9-14 August 1987, Gottingen, Germany.
- De Vocht, A. : The proboscis in Eukalyptorhynchia (Platyhelminthes, Rhabdocoela): some phyletic considerations. SVIMCO, Seventh International Meiofauna conference, 21-25 August '89, Vienna, Austria.
- De Vocht, A. : The proboscis in Eukalyptorhynchia (Platyhelminthes, Rhabdocoela). SISBT, 7-12 August 1990, Hiroasaki, Japan.
- De Vocht A, F. Van Belleghem, E. Baras en J.C. Philippart. Comparative microhabitat use of 0<sup>+</sup>-juvenile fish in the Border Meuse. First International Scientific Symposium on the Meuse (ICBM) 27-28 November 2002, Maastricht, Netherlands.
- De Vocht A, F. Van Belleghem, E. Baras en J.C. Philippart. Migrations, home range and seasonal habitat use of adult Barbel in the Border Meuse. First International

Scientific Symposium on the Meuse (ICBM) 27-28 November 2002, Maastricht, Netherlands.

- De Vocht A. Historical ecological frame of reference for the fish fauna in the Border Meuse and tributaries in the province of Limburg (Flanders, Belgium). Sedan, Frankrijk. 2de Int. Maassymposium 18-19 mei 2006.
- De Vocht A. Impact van de hengelsport op de natuur langs openbare wateren in Vlaanderen. Studiedag Duurzaam Roofvisbeheer, Brussel 23 november 2006.
- Van Liefferinge C., De Vocht A. de Deckere E. en Meire P. 2007. Effects of saline industrial effluents (CaCl<sub>2</sub>) on the growth and development of the freshwater macrophyte *Potamogeton natans*. Setac SETAC Europe 17th Annual Meeting: 20 - 24 May 2007, Porto, Portugal.
- De Vocht A. 2008. Perspectives for rehabilitation of landfill covers. 6th Eur. Conf. On Ecological Restoration. Gent, België 8-12 september 2008.
- De Vocht A. en L. Van Doninck. 2010. Perspectives for sustainable habitat rehabilitation after landfill mining. First symposium on Enhanced landfill mining and the transition to sustainable materials management. 4-6 October 2010, Molenheide (Houthalen-Helchteren, Belgium)
- De Vocht A., Pasmans R., Aubroeck B. en Hendig P. Omlegging en hermeandering van de Voorste en Witte Nete in Dessel. 10<sup>de</sup> Waterforum, 23 september 2013, Brussel.

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## Publications

- De Vocht, A. J.-P. 1988, Peculiar receptors associated with the proboscis in Eukalyptorhynchia (Plathelminthes) *Annals. Soc.r.Zool. Belg.*, 118(2), 229.
- De Vocht, A. J.-P. 1989 Ultrastructure of the proboscis in Cystiplanidae, (Plathelminthes, Kalyptorhynchia) *Zoomorphology* 109: 1-10.
- De Vocht, A. J.-P. 1990 The ultrastructure of the proboscis in *Psammorhynchus tubulipenis* Karling, 1964 and *Cytocystis clitellatus* Karling, 1953 (Platyhelminthes, Rhabdocoela). *Acta Zoologica (Stockholm)*, 71 (2): 113-124.
- De Vocht, A. J.-P. 1991. Anatomy and ultrastructure of the proboscis in *Mesorhynchus terminostylis* (Platyhelminthes, Rhabdocoela). *Hydrobiologia*: 227: 291-298.
- De Vocht, A. 1992. Fishes in the Aabeek. *Jaarboek LIKONA*: 48 - 55.
- De Vocht, A.J.-P. & E.R. Schockaert 1988. Ultrastructure and organisation of the proboscis epithelia in *Cicerina remanei* Meixner, 1928 (Turbellaria, Eukalyptorhynchia). *Progress in Zoology* 36: 375-383.
- De Vocht, A. J.-P. & E.R. Schockaert 1988. The ultrastructural organisation of the proboscis epithelia in *Cicerina remanei* Meixner (Turbellaria, Eukalyptorhynchia), *Annals . Soc. r. Zool. Belg.*, 118 (2): 229-230
- De Vocht, A. J.-P. & E.R. Schockaert 1999. The anatomy and ultrastructure of the proboscis in *Zonorhynchus*-species and the implications for the phylogenetic relationships within the Eukalyptorhynchia Meixner, 1928 (Platyhelminthes, Rhabdocoela). *Belgian Journal of Zoology*.
- De Vocht, A. J.P & Denayer 2002. Assessing the impact of recreational fisheries on nature using a vulnerability approach and GIS in Flanders, Belgium. *Proceedings of*

- Indeherberg, M.B.M., De Vocht, A.J.P., Van Gestel, C.A.M. 1998. Effects on and the use of soil invertebrates in relation to soil contamination and in situ soil reclamation. In: J. Vangronsveld and S.D. Cunningham (editors): Metal-Contaminated Soils: In-situ Inactivation and Phytoremediation, pp. 219-225. Springer Verlag, Berlin Heidelberg.
- Jouk, Ph.E.H. & A.J-P. De Vocht 1989. Kalyptorhynchia (Plathelminthes, Rhabdocoela) from the Kenyan Coast, with description of four new species. Tropical Zoology 2: 145-157.
- P. Kestemont, D. Goffaux, J. Breine, C. Belpaire, A. De Vocht, J.C. Philippart, E. Baras, N. Roset, J. De Leeuw & P. Gérard. 2003. Fishes of the River Meuse: biodiversity, habitat influences and ecological indicators. Proceedings of the First International Scientific Symposium on the Meuse(ICBM) 27-28 November 2002 (in press).
- De Vocht, A., J. Coeck, G. Van Thuyne en J. Breine. 2001. Fishes in Limburg: old friends and new faces. LIKONA-jaarboek 2000. p. 79-85.
- De Vocht, A. 2001. Inland fisheries. In: De Bruyn L., Exploitation of nature. In: Kuijken et al., Nature report 2001. State of nature in Flanders : figures for management. Mededelingen van het Instituut voor Natuurbehoud nr. 18, Brussel.
- De Vocht, A. 2003. Inland fisheries. In: Kuijken et al., Nature report 2001. State of nature in Flanders. (in press)
- Gaethofs T. & A. De Vocht. 2003. Vissen in Limburg...terug naar de tijd van toen. LIKONA-jaarboek 2002 nr.12: 44-53.
- De Vocht, A., F. Van Belleghem, E. Baras en J-C. Philippart. 2003. Migrations, home range and seasonal habitat use of adult Barbel in the Border Meuse. Proceedings of the Fifth Conference on Fish Telemetry held in Europe, Ustica, Italië.
- De Vocht, A. 2003. Migratie en habitatgebruik van Barbeel in de Grensmaas en Geul. Natuurhistorisch maandblad 92 (1°): 255-260.
- Gaethofs T. & A. De Vocht. 2003. De historische en huidige visfauna in de Oude Maas van Stokkem. Natuurhistorisch maandblad 92 (11): 301-307.
- Kestemont, P., D. Goffaux, J. Breine, C. Belpaire, A. De Vocht, J.C. Philippart, E. Baras, N. Roset, J. de Leeuw & P. Gérard. 2003. Fishes of the River Meuse : biodiversity, habitat influences and ecological indicators. Proceedings of the first Scientific symposium on the river Meuse.
- De Vocht, A. J.P., & E. Baras (2005) Effect of hydropeaking on migrations and home range of adult barbel (*Barbus barbus*) in the river Meuse. Proceedings of the Fifth Conference on Fish Telemetry held in Europe, Ustica, Italië, p. 35-44..
- De Vocht, A. en L. De Bruyn. 2005. Binnenvisserij. In: Dumortier et al. , 2005. Natuurrapport 2005. Toestand van de natuur in Vlaanderen: cijfers voor het beleid. Mededeling van het Instituut voor Natuurbehoud nr. 24, Brussel. p. 284-291.
- Bilau M, Sioen I., Matthys C., De Vocht A., Goemans G., Belpaire C., Willems J. L. en De Henauw S. 2007. Probabilistic approach to polychlorinated biphenyl (PCB) exposure through eel consumption in recreational fishermen vs. the general population. Food Additives & Contaminants 24(12): 1386–1393.
- De Vocht A., Aubroeck B. en Hendig P.T. 2007. Omlegging en hermeandering van de Voorste en de Witte Nete in Dessel. Proceeding Congres

Watersysteemkennis 2006 - 2007 "Mogelijkheden voor ecologisch herstel van watersystemen". Water nr. 30 jg 2007: 49-56.

- De Vocht A., Aubroeck B., Hendig P., Buttiens, A. en Nuyts W. 2008. Ecological evaluation of a technically restored lowland watercourse in Flanders, Belgium. Proceedings of the 4<sup>th</sup> ECRR Conference on River Restoration. Venice, Italy 16-21 june 2008 pp. 583-592.
- Ruttens A., K. Adriaensen, E. Meers, A. De Vocht, W. Geebelen, R. Carleer, M. Mench, J. Vangronsveld. 2010. Long-term sustainability of metal immobilization by soil amendments: Cyclonic ashes versus lime addition. Environmental Pollution Volume 158 (5) pp 1428-1434.
- De Vocht A. en S. Descamps. 2011. Biodiversity and Enhanced Landfill Mining: Weighting local and global impacts. In: Enhanced Landfill Mining and the transition to sustainable materials management. Proceedings of the International Academic Symposium on Enhanced Landfill Mining. 4-10 October 2010. Houthalen-Helchteren, Belgium. Extended edition. Eds. P.T. Jones en Y. Thielemans, p. 275-290. ISBN 978-90-8161-501-3.
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#### **Member of the jury of Ph.D thesis**

Jozeph Nindaba, Université de Liège, 18 september 2002. Régime alimentaire et utilisation du microhabitat chez les larves et juvéniles de l'année de quatre espèces de cyprinidés rhéophiles (*Barbus barbus*, *Chondrostoma nasus*, *Leuciscus cephalus* et *Leuciscus leuciscus*) dans l'Ourthe.

Promotor: Dr. J.C. Philippart, Co-promotor: Dr. E. Baras.