

## Personal Information

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Last Name	Leopold
First Name(s)	Martine Annegaaike
Title(s)	Drs
Job title	MSc Biology

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## Field(s) of knowledge relevant for your work at Ctgb

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Skills/ competences/ knowledge

35 years experience in regulatory environmental sciences

- Ecotoxicological and environmental fate testing
  - Hazard and risk assessment
  - Specific experience in the fields of aquatic toxicology, avian toxicology, endocrine disruptor testing, evaluation and protocol development, OECD guideline development.
  - Project coordination of numerous international, multidisciplinary regulatory projects
  - Global business development and strategic planning
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## Talen / Languages

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Language	Mother tongue, fluent, good, basic English and Dutch both at native language German fluent French good Italian basic
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## Education

### Higher education

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1983 – 1984	BSc in Biology	Leiden University
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## Post-graduate education

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1984 – 1988	MSc in Biology	Leiden University
1988	Master thesis in Ecotoxicology	Wageningen University

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## Training

Participation in training / refresher courses

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Year	Training/ course name
2011-2012	Strategic planning by RSR International Inc. (2011-2012)
2009	Leadership training by Mekander Coaching (2009)
1992	Advanced Course in Ecotoxicology (EERO) (1992).

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## Professional positions held

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2015	- present	Owner and Managing Director Calidris environment bv (consultancy), Warnsveld, The Netherlands
2021	- 2024	Director Corporate Development Ibacon GmbH, Roßdorf, Germany
2012	- 2015	Director Global Businessment of ChemEco Division of EAG, Including Wildlife International) – now part of Eurofins.
1997	- 2012	Director European Business of the environmental contract laboratory Wildlife International, Ltd company located in Easton MD, location of European Office in The Netherlands.
1989	- 1997	Study Director and Head of Aquatic tox lab, followed by position as head of Avian Toxicology lab. NOTOX Safety Laboratories BV (now part of Charles River Laboratories), 's Hertogenbosch, The Netherlands.
1989	- 1989	Internship at RIVM

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## Other information relevant for professional experience

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2019	-	present	Adjunct Professor / affiliated researcher EGESTA Lab at the Institute for Resources, Environment and Sustainability, University of British Columbia, Canada. Supervising masters students and doing research in the field of science for policy: co-writing papers and research proposals.
2021	-	Present	Representative of SETAC Europe at the European Commission High Level Roundtable for the Implementation of the Chemical Strategy for Sustainability. European Commission, Brussels

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## Participation in EU working groups and scientific networks

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Year			Group name
2023	-	Present	Chair of Steering Committee of the SETAC – EC Consultation series for Advancing Science-based Innovation for the Safe and Sustainable by Design Concept
1991	-	Present	Member of SETAC (Society for Environmental Toxicology and Chemistry)
2015	-	2017	(SETAC-Europe President from 2019—2020) <ul style="list-style-type: none"><li>- Chair of the Steering Committee for the Pellston Workshop on Environment Hazard and Risk Assessment of Endocrine Active Substances</li><li>- Former Chair of the of the Endocrine Disruptor Testing and Risk Assessment Interest Group</li><li>- Former Chair of the Science and Risk Communication Interest Group</li></ul>
2019	-	2024	<ul style="list-style-type: none"><li>- Member of the Sounding Board for SETAC’s representation on the EFSA Stakeholder Committee</li></ul>
1994	-	2010	
1992	-	1994	<ul style="list-style-type: none"><li>- Member of OECD Avian Reproduction Working Group and the Avian Acute Oral Working Group.</li><li>- Steering Committee Member of the Environmental Toxicology Section of the Dutch Toxicological Society.</li></ul>

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## Publications in peer reviewed Journals

- Posthuma, L., Bloor, M., Campos, B., Groh, K., **Leopold, A.**, Sanderson, H., Schreiber, H., Schür, C., & Thomas, P. (2024). Green Swans Countering Chemical Pollution. *Debates, Dilemmas, and Discoveries. Integrated Environmental Assessment and Management*, 20(1), 294–294. <https://doi.org/10.1002/ieam.4877>
- Fort, D. J., **Leopold, M. A.**, Wolf, J. C., Todhunter, K. J., & Weterings, P. J. J. M. (2023). Importance of diet in amphibian metamorphosis-based studies designed to assess the risk of thyroid active substances. *Journal of Applied Toxicology*, 43(3), 360–372. <https://doi.org/10.1002/jat.4387> Epub 2022 Sep 22. PMID: 36053261.
- Douglas, F., Peak, B., Mathis M., **Leopold, A.**, Wolf, J. Weterings, P. (2024) Comparing the Effects and Potencies of Perchlorate and Nitrate on Amphibian Metamorphosis using a Modified Amphibian Metamorphosis Assay (AMA). *Journal of Applied Toxicology*. 44(8) 1184–1197. DOI: [10.1002/jat.4611](https://doi.org/10.1002/jat.4611)
- van Dijk, J, **Leopold, A.**, Flerlage, H, A, van Wezel, AP, , Seiler, T-S, Enrici, M-H., Bloor, M.C. 2021. The EU Green Deal’s ambition for a toxic-free environment: filling the gap for science-based policymaking. *Integr Environ Assess Manag*. doi: 10.1002/ieam.4429.
- McIlroy, B, **Leopold, A**, Oberg, G. 2021. Science, consensus, and endocrine disrupting chemicals: rethinking disagreement in expert deliberations. *Integr Environ Assess Manag* 2021: Vol 17, 2, pp 480-481. DOI:10.002/ieam.4385.
- McIlroy, B, Oberg, G, **Leopold, A**. The manufacturing of consensus: a struggle for epistemic authority in chemical risk evaluation. Accepted by *Environmental Science & Policy*.
- Oberg, G, Elliott, K and **Leopold, A**, 2020. Science Is Political But Should Not Be Partisan. *Integr Environ Assess Manag* 2020:6–7; DOI: 10.1002/ieam.4229.
- **Leopold, A.** and Dreier, D. 2019. Ecotoxicological Risk Assessment of Endocrine Disruptors: Current and Future Approaches. Elseviers Earth Systems and Environmental Sciences Module, Volume ■ <https://doi.org/10.1016/B978-0-12-409548-9.11276-X> .
- **Leopold, A.** 2019. Chapter 4.3.7. Selection of test organisms – Birds. *Environmental Toxicology, an open online textbook*. Eds. Cornelis A.M. van Gestel, Frank G.A.J. Van Belleghem, Nico W. van den Brink, Steven T.J. Droge, Timo Hamers, Joop L.M. Hermens, Michiel H.S. Kraak, Ansje J. Löhr, John R. Parsons, Ad M.J. Ragas, Nico M. van Straalen, and Martina G. Vijver. Available online 20 September, 2019. [https://maken.wikiwijs.nl/147644/Environmental\\_Toxicology\\_an\\_open\\_online\\_textbook#page-5415395](https://maken.wikiwijs.nl/147644/Environmental_Toxicology_an_open_online_textbook#page-5415395)
- Oberg, G, **Leopold, A.** 2019. On the role of review papers in the face of escalating publication rates - a case study of 11 research on contaminants of emerging concern (CECs). Review Paper, *Environment International*. ENVINT\_2019\_1160\_R1 (available online 9<sup>th</sup> July 2019). <https://www.sciencedirect.com/science/article/pii/S0160412019311808?via%3Dihub>
- Edwards P, **Leopold A**, Beavers J, Springer T, Chapman P, Hubbard P, Maynard S. 2018. More for Less: Analysis of the Performance of Avian Acute Oral Guideline OECD 223 from Empirical Data. *Integrated Environmental Assessment Management (IEAM)*. <https://setac.onlinelibrary.wiley.com/doi/full/10.1002/ieam.1930>. First published 18 March 2018.
- Matthiessen, P et al. 2017. Recommended Approaches to the Scientific Evaluation of Ecotoxicological Hazards and Risks of Endocrine-Active Substances. <https://doi.org/10.1002/ieam.1885>. First published 27 January 2017.
- **Leopold A**, Roberts M, Matthiessen P. 2017. Ecotoxicological Hazard and Risk Assessment of Endocrine Active Substances. <http://dx.doi.org/10.1002/ieam1868>. First published 16 November 2016.

- Coauthor of Validation report of OECD TG223 – Avian acute toxicity test. OECD, 2010.  
[http://www.oecd.org/officialdocuments/publicdisplaydocumentpdf/?cote=env/jm/mono\(2010\)29&doclanguage=en](http://www.oecd.org/officialdocuments/publicdisplaydocumentpdf/?cote=env/jm/mono(2010)29&doclanguage=en)
- **A. Leopold** and K. Romijn. Risk assessment for substances with endocrine-disrupting properties in birds and mammals. EFSA Journal 2009 - Chapter 5.3.  
<https://www.efsa.europa.eu/sites/default/files/engage/171106.pdf>
- R.S. Bennett et al. A New Interpretation of Avian and Mammalian Reproduction Toxicity Test data in Ecological Risk assessment. *Ecotoxicology*, 14, 801-815, 2005.  
<https://www.researchgate.net/publication/7475238>
- R. Shore et al. Case Study Part 1: How to Calculate Appropriate Deterministic Long-Term Toxicity to Exposure Ratios (TERs) for Birds and Mammals. *Ecotoxicology*, 14 (8) pp: 877-893.  
<https://www.researchgate.net/publication/7440260>
- Avian Effects Assessment: A Framework for Contaminants Studies. 2001. Report of a SETAC workshop on “Harmonised Approaches to Avian Effects Assessment”, held with the support of OECD, in Woudschoten, The Netherlands, September 1999. Eds. A.Hart, D. Balluff, R. Barfknecht, P. Chapman, T. Hawks, G. Joermann, **A. Leopold**, R. Luttik.
- Hoeven, N. van der; Noppert, F., **Leopold, M.A.** 1998. How to measure no effect. Part I. Towards a new measure of chronic toxicity in ecotoxicology. *Environmetrics*, Vol. 8, 241-248.  
[https://doi.org/10.1002/\(SICI\)1099-095X\(199705\)8:3<241::AID-ENV244>3.0.CO;2-7](https://doi.org/10.1002/(SICI)1099-095X(199705)8:3<241::AID-ENV244>3.0.CO;2-7). First published 4 December 1998.
- Aukema, B.; Berg, J.H.J. van den; **Leopold, M.A.**; Jagers op Akkerhuis, G.A.J.M.; Everts, J.M. A method for testing the toxicity of residues of pesticides on a standardised substrate to erigonid an linyphiid spiders. *J. Appl. Ent.*, 109 (1990), 7680.