

## Curriculum Vitae

### Personal information

Peter Van Vlaardingen

### Work experience

1. Employer: University of Amsterdam

- Start date: 011993
- End date: 061997
- Position: Researcher
- Activities:

Studied ecotoxicological effects of N<sub>2</sub> heterocyclic PAHs on aquatic organisms. Developing and employing analytical methods, toxicity testing photolysis on ecotoxicity of NPAH to algae.

2. Employer: National Institute for Public Health and the Environment

- Country: Netherlands
- Start date: 071997
- End date:
- Position: Risk assessor
- Activities:

Assessment of environmental risks of chemical substances for relevant Dutch Competent Authorities. Regulatory frameworks: human and veterinary development in those frameworks, both nationally and internationally. Member of Ad hoc Environmental Exposure Working Group, subgroup ECHA. Member of the BPC Environmental Working Group. Policy advisory tasks for the Ministry of Infrastructure and the Environment. Der national level and under the Water Framework Directive.

3. Employer: National Institute for Public Health and the Environment

- Country: Netherlands
- Start date: 121988
- End date: 121992
- Position: Researcher
- Activities:

Studied effect of toxicants on subsoil and freshwater sediment microbial communities, mainly under \_strict\_ anaerobic conditions.

- Country: Netherlands

### Education and training

1. Subject: Van 't Hoff Instituut

- Start date: 081984
- End date: 111988
- Qualification: BSc
- Organisation:
- Country: Netherlands

### Additional information

#### Publications

Burns TD, Beking M, Shen j, De Knecht JA, Bakker J, Van Vlaardingen P, Tolls J, Gouin T. 2025. A Unified Approach to SimpleTreat Input and Settings for Waste Environmental Assessment and Management. <https://doi.org/10.1093/inteam/viae049>.

De Groot CWE, Van Vlaardingen PLA. 2023. Environmental risk limits for free cyanide in fresh- and marine surface water. Proposal for water quality standards and Framework Directive. National Institute for Public Health and the Environment. Bilthoven, The Netherlands: Report nr. 2023-0192. 49 p. <https://www.rivm.nl/bi>

Nolte TM, Peijnenburg W, Van Vlaardingen P. 2023. Robust calculus for biotransformation in wastewater generalized across thousands of chemicals and conditions. [https://www.researchgate.net/publication/369087292\\_Robust\\_calculus\\_for\\_biotransformation\\_in\\_wastewater\\_generalized\\_across\\_thousands\\_of\\_chemicals\\_and\\_conditions](https://www.researchgate.net/publication/369087292_Robust_calculus_for_biotransformation_in_wastewater_generalized_across_thousands_of_chemicals_and_conditions)

Verbruggen EMJ, Smit CE, Van Vlaardingen PLA. 2020. Verbruggen Environmental quality standards for barium in surface water. Proposal for an update according to Framework Directive. Bilthoven, The Netherlands: National Institute of Public Health and the Environment: RIVM letter report 2020\_0024. 112 p.

Quick JTK, Lijzen JPA, Spijker J, Van Drongelen A, Van der Grinten E, Hollander A, De Jonge R, Van Leuken J, Moermond C, De Poorter LRM, Schmitt H, Venhuis Wassenaar P, Zijp M, Zweekers P. 2018. Creating Safe and Sustainable Material Loops in a Circular Economy. Proposal for a tiered modular framework to assess environmental risks. Public Health and the Environment. Bilthoven, The Netherlands: Report nr. 2018\_0173. 176 p.

Van Dijk J, Venhuis B, Van Vlaardingen P, Moermond C, Marinković M. 2018. Ecologische risico's van cytostatica in Nederlandse oppervlaktewateren. H2O online [https://www.h2owaternetwerk.nl/vakartikelen/2310\\_ecologische\\_risico\\_s\\_van\\_cytostatica\\_in\\_nederlandse\\_oppevlaktewateren](https://www.h2owaternetwerk.nl/vakartikelen/2310_ecologische_risico_s_van_cytostatica_in_nederlandse_oppevlaktewateren).

Moermond C, Venhuis B, Van Elk M, Oostlander A, Van Vlaardingen P, Marinković M, Van Dijk J. 2018. Cytostatics in Dutch surface water. Use, presence and risk.

Public Health and the Environment. Letter Report nr. 2018\_0067.

Bakker J, Van Vlaardingen PLA. 2017. Wetted surface area of recreational boats. Bilthoven, The Netherlands: National Institute for Public Health and the Environment (RIVM). Letter report 2017\_0153. 30 pp.

Van der Grinten E, Van der Maaden T, Van Vlaardingen PLA, Venhuis BJ, Moermond CTA. 2017. Milieufafwegingen in de geneesmiddelenvoorziening. Bilthoven, The Netherlands: National Institute of Public Health and the Environment. Letter report 2017\_0207. 77 pp.

Moermond CTA, Smit CE, Van der Linden AMA, Van Vlaardingen PLA, Bodar CWM. 2017. Milieurisico's van fipronil in mest. Risicobecoördeling voor het toepassen van fipronil in mest. Bilthoven, The Netherlands: National Institute of Public Health and the Environment. Letter report 2017\_0153. 30 pp.

Dang, Z. Smit, E. Van Vlaardingen, P. Moermond, C. Bodar, C. Endocrine disrupting chemicals within EU legal frameworks: environmental perspectives. Bilthoven, The Netherlands: National Institute of Public Health and the Environment. RIVM Letter report 2016\_0145. 37 pp.

Smit CE, Posthuma Doodeman CJAM, Van Vlaardingen PLA, De Jong FWM. 2015. Ecotoxicity of Imidacloprid to Aquatic Organisms: Derivation of Water Quality Standards. Environmental Risk Assessment 21: 1608–1630.

Van Herwijnen R, Moermond CTA, Van Vlaardingen PLA, De Jong FMW, Verbruggen EMJ. 2012. Environmental risk limits for triphenyltin in water. Bilthoven, The Netherlands: National Institute of Public Health and the Environment. RIVM Letter report 601714018. 104 pp.

Brand E, Bogte J, Baars AJ, Janssen P, Tiesjema G, Van Herwijnen R, Van Vlaardingen PLA, Verbruggen EMJ. 2012. Proposal for revised Intervention Values soil and water. Bilthoven, The Netherlands: National Institute of Public Health and the Environment. Report nr. 607711006. 114 p. European Commission. 2011. Technical Guidance For Deriving Environmental Risk Limits for Chemicals in the Environment. Implementation Strategy for the Water Framework Directive (2000/60/EC). Brussels, Belgium: European Commission. Guidance Document No. 27. Technical Report No. 27. Technical Report No. 27. Technical Report No. 27.

Van der Ree J, Te Biesebeek JD, Wolterink G, Smit E, Van Vlaardingen P. 2011. Humane risico's van gewasbeschermingsmiddelen in zwemwater Analyse van menselijke blootstelling aan pesticiden in zwemwater. Bilthoven, The Netherlands: National Institute of Public Health and the Environment. RIVM Letter report 609033007/2011. 25 pp.

Van der Aa NGFM, Van Vlaardingen PLA, Van Leeuwen LC, Post M. 2011. Assessment of potential risks of 11 pharmaceuticals for the environment using environmental risk assessment. Bilthoven, The Netherlands: National Institute of Public Health and the Environment. RIVM Letter report 601711003. 28 pp.

Van Vlaardingen PLA, De Knecht JA, Montforts MHMM. 2009. Risicobecoördeling van diergeneesmiddelen in grondwater bij registratie. Bilthoven, The Netherlands: National Institute of Public Health and the Environment (RIVM). Letter report nr 601711002/2009. 18 pp.

Van Vlaardingen PLA, Verbruggen EMJ. 2009. Aanvulling milieurisicogrenzen water voor negen sporenelementen. Afleiding volgens kaderrichtlijn water\_methodologie. Bilthoven, The Netherlands: National Institute of Public Health and the Environment (RIVM). Report no. 601714011. 89 pp.

Van Vlaardingen PLA, Smit CE. 2009. Verification of moisture content in test soils. Bilthoven, The Netherlands: National Institute of Public Health and the Environment. Report no. 601714011. 89 pp.

Spijker J, Van Vlaardingen PLA, Mol, G. 2008. Achtergrondconcentraties en relatie met bodemtype in de Nederlandse bodem. Bilthoven, the Netherlands: National Institute of Public Health and the Environment. Report nr. 711701074. 91 p.

Moermond CTA, Van Vlaardingen PLA, Vos JH, Verbruggen EMJ. 2008. Environmental risk limits for dimethoate. Bilthoven, the Netherlands: National Institute of Public Health and the Environment (RIVM). Report no. 601714001. 68 p.

Van Vlaardingen PLA, Vonk JW. 2008. Environmental risk limits for captan. Bilthoven, The Netherlands: National Institute of Public Health and the Environment (RIVM). Report no. 601714001. 68 p.

Van Vlaardingen PLA, Vonk JW. 2008. Environmental risk limits for esfenvalerate. Bilthoven, The Netherlands: National Institute of Public Health and the Environment (RIVM). Report no. 601714001. 68 p.

Van Vlaardingen PLA, De Poorter LRM, Fleuren RHLJ, Janssen PJCM, Posthuma Doodeman CJAM, Verbruggen EMJ, Vos JH. 2007. Environmental risk limits for triphenyltin in water. Bilthoven, The Netherlands: National Institute of Public Health and the Environment (RIVM). Report no. 601782003. 230 pp.

Van Vlaardingen PLA, Verbruggen EMJ. 2007. Guidance for the derivation of environmental risk limits within the framework of the project 'International and national environmental risk limits for chemicals in the Netherlands (INS). Bilthoven, The Netherlands: National Institute of Public Health and the Environment (RIVM). Report no. 601782001. 134 pp.

Van Vlaardingen PLA, Van der Linden AMA, Van den Broek HH, Post M, Wintersen A. 2007. Compound related database. EU\_funded project HAIR (HAmonised environmental risk assessment for pesticides in the environment). SSPE\_CT\_2003\_501997. Final report of Workpackage 4.

Dirven Van Breemen EM, Lijzen JPA, Otte, PF, Van Vlaardingen PLA, Spijker J, Verbruggen EMJ, Swartjes FA, Groenenbert JE, Rutgers M. 2007. Landelijke referentiewaarden in het bodembeleid. Bilthoven, the Netherlands, National Institute for Public Health and the Environment. Report no. 711701053, 134 p.

Spijker J, Van Vlaardingen PLA. 2007. Implicaties van voorgestelde bodemnormwaarden uit 'Achtergrondwaarden 2000' in relatie tot risico's. Bilthoven, the Netherlands: National Institute of Public Health and the Environment. Report nr. 711701052. 71 pp.

Van Vlaardingen PLA, Posthumus, R. Posthuma Doodeman CJAM. 2005. Environmental Risk Limits for nine trace elements. Bilthoven, The Netherlands: National Institute of Public Health and the Environment (RIVM). Report no. 601501029. 247 pp.

Verbruggen EMJ, Traas TP, Fleuren RHLJ, Ciarelli S, Posthumus R, Vos JH, Scheepmaker JWA, Van Vlaardingen PLA. 2005. Environmental risk limits for alcohols and volatile compounds. 1. Ecotoxicological evaluation. Bilthoven, the Netherlands: National Institute for Public Health and the Environment. Report nr. 601501016. 16 pp.

Van Vlaardingen PLA, Traas TP, Wintersen AM, Aldenberg T. 2004. ETX 2.0 – A program to calculate hazardous concentrations and fraction affected, based on normally distributed data. Bilthoven, The Netherlands: National Institute of Public Health and the Environment (RIVM). Report nr. 601501028. 68 pp. Including CD rom with ETX 2.0 software.

Van Wezel AP, Van Vlaardingen P. 2004. Environmental risk limits for antifouling substances. Aquat Toxicol 66: 427–444.

Janssen MP, Traas TP, Rila J\_P, Van Vlaardingen P. 2004. Guidance for deriving Dutch Environmental Risk Limits from EU\_Risk Assessment Reports of existing substances. Bilthoven, The Netherlands: National Institute of Public Health and the Environment (RIVM). Report nr. 601501020. 35 pp.

Van Vlaardingen PLA, Traas TP, Aldenberg T. 2003. ETX\_2000 – A program to calculate hazardous concentrations and fraction affected based on normally distributed data. Bilthoven, The Netherlands: National Institute of Public Health and the Environment (RIVM/SEC Factsheet FSM\_008\_00 + Excel application).

Van Vlaardingen PLA, Posthumus, R. Traas, TP. 2003. Environmental Risk Limits for alkylphenols and alkylphenol ethoxylates. Bilthoven, The Netherlands: National Institute of Public Health and the Environment (RIVM). Report nr. 601501019. 161 pp.

Van Wezel AP, De Vries W, Beek M, Otte PFM, Lijzen JPA, Mesman M, Van Vlaardingen PLA, Tuinstra J, Van Elswijk M, Römkens PFAM, Bonten L. 2003. Bodemgebruik en waterbodem. Technisch wetenschappelijke afleiding van getalswaarden. Bilthoven, the Netherlands: National Institute for Public Health and the Environment (RIVM). Report nr. 601501019. 161 pp.

Dirven EM, Van Vlaardingen PLA, Peijnenburg WJGM, Sijm, DTHM, Posthuma L. 2002. Pilot studie naar toetsing van ecologische relevantie van soorten voor normstelling. Bilthoven, The Netherlands: National Institute of Public Health and the Environment (RIVM). Report nr. 607220007. 67 pp.

Lijzen JPA, Mesman M, Aldenberg T, Mulder CD, Otte PF, Posthumus R, Roex E, Swartjes FA, Versluis CW, Van Vlaardingen PLA, Van Wezel AP, Van Wijnen HJ. 2003. Bodemgebruikswaarden. Bilthoven, the Netherlands: National Institute for Public Health and the Environment (RIVM). Report nr. 711701029. 171 pp.

Wiegman S, Van Vlaardingen PLA, Bleeker EAJ, De Voogt P, Kraak MHS. 2001. Phototoxicity of azaarene isomers to the marine flagellate Dunaliella tertiolecta. Ecolotoxicology 10: 100–108.

Van Wezel AP, Van Vlaardingen P. 2001. Maximum permissible concentrations and negligible concentrations for antifouling substances. Irgarol 1051, dichlofluorfen. Bilthoven, The Netherlands: National Institute of Public Health and the Environment (RIVM). Report nr. 601501008. 59 pp.

Van Wezel AP, Van Vlaardingen P, Posthumus R, Crommentuijn GH, Sijm DTHM. 2000. Environmental risk limits for two phthalates, with special emphasis on endocrine disruption. Bilthoven, The Netherlands: National Institute of Public Health and the Environment (RIVM). Report nr. 601501008. 59 pp.

Wiegman S, Van Vlaardingen PLA, Peijnenburg WJGM, Van Beusekom SAM, Kraak MHS, Admiraal W. 1999. Photokinetics of azaarenes and toxicity of phototransforming bacteria. Phaeodactylum tricornutum. Environ Sci Technol 33: 4256–4262.

Van Vlaardingen PLA, Montforts MHMM. 1999. Geneesmiddelen in het milieu. Twee verkennende studies samengevat. Bilthoven, The Netherlands: National Institute for Public Health and Environmental Protection (RIVM). Report nr. 734301017. 40 pp.

De Voogt, P, Bleeker EAJ, Van Vlaardingen PLA, Fernández A, Slobodník J, Wever H, Kraak MHS. 1999. Formation and identification of azaarene transformation products. J Chromatogr B 724: 265\_274.

Montforts, MHMM, Kalf DF, Van Vlaardingen PLA, Linders JBHJ. 1999. The exposure assessment for veterinary medicinal products. Sci Total Environ 225: 119\_129.

Van Wezel AP, Posthumus R, Van Vlaardingen P, Crommentuijn T, Van de Plassche EJ. 1999. Maximum permissible concentrations and negligible concentrations of di(2-ethyl-hexyl)phthalate), with special emphasis on endocrine disruptive properties. Bilthoven, the Netherlands: National Institute for Public Health and the Environment (RIVM). Report nr. 601501006.129 pp.

Van Wezel AP, Traas T, Polder M, Posthumus R, Van Vlaardingen P, Crommentuijn T, Van de Plassche EJ. 1999. Maximum permissible concentrations for polychlorinated biphenyls in water. Bilthoven, The Netherlands: National Institute for Public Health and the Environment (RIVM). Report nr. 601501006.129 pp.

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Steinhoff WJ, De Voogt P, Admiraal WA. 1996. Property-toxicity relationships of azaarenes to the green alga Scenedesmus acuminatus. Environ Toxicol Chem 15: 103\_112.

Van Beelen P, Van Dijk GM, Kroes HW, Van Vlaardingen PLA. 1996. Ecotoxicologische risicoanalyse van verontreinigde riviersedimenten in de Rijn: een methode voor gebruik van de normstelling. H2O 29: 507\_510.

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Van Vlaardingen PLA and Van Beelen P. 1994. Toxic effects of pollutants on the mineralization of acetate in methanogenic river sediment. Bull Environ Contam Toxicol 52: 103\_112.

Van Beelen P, Van Vlaardingen PLA, Fleuren\_Kemilä AK. 1994. Toxic effects of pollutants on the mineralization of chloroform in river sediments. Ecotox Environ 49: 78\_89.

Van Beelen P, Van Vlaardingen PLA. 1994. Toxic effects of pollutants on the mineralization of 4-chlorophenol and benzoate in methanogenic river sediment. Environ Toxicol Chem 13: 103\_112.

Van Vlaardingen PLA, Van Beelen P. 1993. Toxic effects of pollutants on the mineralization of acetate in methanogenic river sediment. Bilthoven, The Netherlands: National Institute for Public Health and Environmental Protection (RIVM). Report nr. 714201003. 10 pp.

Van Beelen P, Van Vlaardingen PLA. 1993. A method for the ecotoxicological risk analysis of polluted sediments by the measurement of microbial activities. In: Methods for the assessment of the ecological status of water bodies. Boca Raton, Florida: Lewis publishers.

Van Beelen P, Van Vlaardingen PLA. 1993. Toxic effects of pollutants on the mineralization of 4-chlorophenol and benzoate in methanogenic river sediment. Bilthoven, The Netherlands: National Institute for Public Health and Environmental Protection (RIVM). Report nr. 714201004. 23 pp.

Van Beelen P, Van Vlaardingen PLA. 1993. The mineralization of chloroform in river sediments. Neth J Aquat Ecol 27: 51\_58.

Van Vlaardingen PLA, Van Beelen P. 1992. Toxic effects of pollutants on methane production in sediments of the river Rhine. Bull Environ Contam Toxicol 49: 78\_89.

Van Vlaardingen PLA, Van Beelen P. 1992. Toxic effects of pollutants on methane production of river sediment. Bilthoven, The Netherlands: National Institute for Public Health and Environmental Protection (RIVM). Report nr. 714206003. 23 pp.

Van Beelen P, Van Vlaardingen PLA. 1992. Hazardous concentrations of pollutants for micro-organisms in river sediment. Bilthoven, the Netherlands: National Institute for Public Health and Environmental Protection (RIVM). Report nr. 714206004. 9 pp.

Van Beelen P, Fleuren\_Kemilä AK, Huys MPA, Van Montfort ACP, Van Vlaardingen PLA. 1991. The toxic effects of pollutants on the mineralization of acetate in sediment. Neth J Aquat Ecol 27: 51\_58.

Van Beelen P, Van Vlaardingen PLA, Fleuren\_Kemilä AK, Van Mil CHAM, Van den Berg S. 1991. Toxic effects of pollutants on the mineralization of chloroform in river sediment. Bilthoven, The Netherlands: National Institute for Public Health and Environmental Protection (RIVM). Report nr. 714206002. 28 pp.

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## Projects

## Memberships

ECHA: Ad hoc Working Group on Environmental Exposure (biocides)  
former: EU Technical meeting on Biocides

## Other Relevant Information