

Curriculum Vitae

Last name, First name: Linders, Jan

Gender: M

Nationality: Dutch

Overall Scientific Expertise:

Educated as an environmental management and chemical engineer, I worked as a mathematical modeller in the area of pesticides and biocides registration developing environmental exposure scenarios. For several years I managed a group of about fifteen co-workers to evaluate the dossiers for registration of pesticides and biocides at the national and international level (Netherlands, EU, OECD and IUPAC). I have more than 25 years experience in risk assessment of pesticides and biocides also for national and international governments (Netherlands, EU and IMO). For the IMO, I worked on the risk assessment of ballast water management systems.

Professional Experience

| Years employed from – to | Title of position | Employer – name and location | Areas of professional specialisation [^] |
|--------------------------|---|--|---|
| 2011-present | Adviser (parttime) | EU, Scientific Committee on Health and Environmental Risks (SCHER, predecessor of SCHEER), Brussels and Luxembourg). International Maritime Organization, London, UK. | Risk assessment and advice to Commission bodies upon requests. Risk assessment of ballast water management systems upon request. |
| 2000-2011 | Environmental risk assessment specialist | National Institute for Public Health and Environment, Bilthoven, The Netherlands. | Environmental risk assessment of several types of chemicals, e.g. pesticides, biocides, new chemicals, veterinary and human medicines. |
| 1992-2000 | Head of department on pesticides evaluation | National Institute for Public Health and Environment, Bilthoven, The Netherlands. | Managing the co-workers in the area of pesticides and biocides registration evaluation. Development of decision support systems and modelling. |
| 1984-1992 | Environmental risk assessor pesticides | National Institute for Public Health and Environment, Bilthoven, The Netherlands. | Evaluation of pesticides, biocides and new chemicals; |

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| | | | development of decision support systems and modelling. |
| 1975-1984 | Modelling in environmental systems analysis | National Institute for Drinking Water Supply, The Hague, The Netherlands. | Modelling environmental bodies like the River Rhine and lakes. |
| 1974-1975 | Centralist | Ministry of Defence, Deventer, The Netherlands. | Operation telephone center. |
| 1966-1974 | Student | Twente University, Enschede, The Netherlands. | Student Environmental Chemistry. |

Educational Background

| Year | Degree awarded | Educational Institution – name and location | Areas of educational specialisation* |
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| 1975-2011 | Several diplomas | Several Institutions | Additional modelling courses, management courses, programming courses, software courses, internet courses |
| 1975-2020 | Several courses given | Several Locations in The Netherlands and around the Globe | Risk Assessment Course for foreign students, Risk assessment and modelling courses in Europe, Environmental Risk Assessment courses (China, 2012; Colombia, 2013; Santiago de Chile, 2015, Kenia, 2016, New Delhi, 2016, Costa Rica, 2017 |

Memberships in Scientific Advisory Bodies/Committees/Panels (if any):

UN: Joint Group of Experts on the Scientific Aspects of Marine Protection (GESAMP), since 2010.

IMO: GESAMP Ballast Water Working Group, since 2006, chairman since 2008.

SCHER from 2006 - 2016

Memberships in Learned Societies (if any):

None

Memberships in Editorial Boards (if any):

None

List of Publications:

1. Risk assessment reports on various pesticides and biocides, > 500.
2. Scientific studies and reports, ca. 50.
3. Scientific publications, ca. 20.

Bibliographic details of publications:

Matthias Grote, Jean-Luc Boudenne, Jean-Philippe Croué, Beate I. Escher, Urs von Gunten, Thomas Höfer, Henk Jenner, Jingyi Jiang, Tanju Karanfil, Michel Khalanski, Daekyun Kim, Jan Linders, Josefine Maas, Tarek Manasfi, Harry Polman, Birgit Quack, Susann Tegtmeier, Barbara Werschkun, Xiangru Zhang, Greg Ziegler (2022). Comparison of anthropogenic and natural inputs of disinfection by-products and natural analogues to the marine environment. Publication in progress.

Annette Dock, Jan Linders, Matej David, Stephan Gollasch, Jan David, Gregory Ziegler (2020). Are workers on board vessels involved with chemicals from treated ballast water sufficiently protected? – A decadal perspective and risk assessment. *Chemosphere* 247 (2020) 125824, 12pp.

Annette Dock, Jan Linders, Matej David, Stephan Gollasch, Jan David 2019. Is human health sufficiently protected from chemicals discharged with treated ballast water from vessels worldwide? – A decadal perspective and risk assessment. *Chemosphere* 235 (2019), 194 – 204.

Matej David, Jan Linders, Stephan Gollasch, Jan David (2018). Is the aquatic environment sufficiently protected from chemicals discharged with treated ballast water from vessels worldwide? – A decadal environmental perspective and risk assessment. *Chemosphere* 207 (2018), 590 – 600.

Felsot, A.S.; Unsworth, J.B.; Linders, J.B.H.J.; Roberts, G.; Rautman, D.; Harris, C.; Carazo, E., (2010) Agrochemical spray drift; assessment and mitigation—A review. *Journal of Environmental Science and Health, Part B*, 45: 8, 889 – 911.

Hamilton, D.J., Ambrus A., Dieterle, R.M., Felsot, A., Harris, A.C., Holland, P.T., Katayama, A., Kurihara, N., Linders, J.B.H.J., Unsworth, J. and Wong, S.-S. (2003). Regulatory Limits for Pesticide Residues in Water (Technical Report). *Pure and Applied Chemistry*, Vol. 75, No. 8, pp 11239 – 1155.

Wauchope, R.D., Yeh, S., Linders, J.B.H.J., Kloskowski, R., Tanaka, K., Rubin, B., Katayama, A., Kördel, W., Gerstl, Z., Lane, M. and Unsworth, J. (2002). Review. Pesticides Soil Sorption Parameters: Theory, Measurement, Uses, Limitations and Reliability. *Pest Manag. Sci.*, Vol. 58, pp. 419 – 445.

Linders, J., Mensink, H., Stephenson, G., Wauchope, D. and Racke, K. (2000b). Foliar Interception and Retention Values after Pesticide Application. A Proposal for Standardised Values for Environmental Risk Assessment (Technical Report). *Pure and Applied Chemistry*, Vol. 72, No. 11, pp 2199 – 2218.

Montforts, M.H.M.M.; Kalf, D.F.; Vlaardingen, P.L.A. van; and Linders, J.B.H.J. (1998). The Exposure Assessment for Veterinary Medicinal Products, *The Science for Total Environment* (1999), 225, pp. 119 – 133.

Brouwer, W.W.M., Boesten, J.J.T.I., Linders, J.B.H.J. & Linden, A.M.A. van der (1994). The Behaviour of Pesticides in Soil: Dutch Guidelines for Laboratory Studies and their Evaluation. *Pesticide Outlook*, Vol 5 no 5, October 1994, p. 23 – 28.