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Education

- 1963-1968 *Secondary school*: Christelijk Lyceum, Alphen aan den Rijn. HBS-b diploma June 1968.
1968-1976 *Chemistry and Chemical Engineering* at Delft University of Technology, Delft. Major fields: organic chemistry, analytical chemistry and organic geochemistry. Academic engineering degree (ir) November 1976.
1978-1981 *Doctoral research* at Delft University of Technology, Delft, NL; Title thesis: 'Particulate organic matter in the river Rhine delta – its role in trace metal scavenging'. Promotores: prof.dr. P.A. Schenck, prof.dr. J.W. de Leeuw. Doctoral degree in technical sciences (dr) August 1982.

Positions

- 1977-1978 *Post doctoral fellow*, University of California at Berkeley, Laboratory of Chemical Biodynamics (dr. M. Calvin, dr. R.P. Philp). Research subject: chemical characterization insoluble organic matter in sediments (kerogen).
1982-1986 Project manager Environmental Chemistry, National Institute for Water Supply (RID), Leidschendam.
1986-1992 *Head Environmental Chemistry department*, National Institute of Public Health and the Environment (RIVM), Bilthoven. Laboratory of Water and Drinking water Research.
1992-1993 *Visiting scientist*, US EPA Environmental Research Laboratory, Athens, Georgia, USA. Development and application of multimedia fate models for evaluation of chemicals.
1993 - *Senior scientist*, National Institute of Public Health and the Environment. Laboratory of Ecotoxicology.
2004 - *Professor of Environmental Quality*, University of Nijmegen. Part-time extraordinary chair position.

Experience

- 1974-1982 *Analytical chemistry*. Instrumental organic analyses (analytical pyrolysis, gas chromatography and mass spectrometry)
1974-1982 *Geochemistry*. Occurrence and diagenesis of lipophilic compounds in sediments. Chemical structure of macromolecular organic matter ('humic substances') in sediments. Behavior of trace metals in aquatic sediments.

- 1982-1986 *Environmental chemistry*. Wet deposition of acids, nutrients and trace contaminants. Trace organics in sea water. Sediment-water exchange of trace metals and trace organics. Sorption kinetics and availability of metals and organic compounds.
- 1993 - *Ecotoxicological effects assessment*. Calculating toxic pressure from species sensitivity distributions.
- 1982 - *Consultancy*. Evaluation and integration of environmental chemical knowledge as support for policy documents on environmental management. Integrated Assessment Reporting for priority pollutants. State of the environment reporting. National Environmental Outlooks.
- 1982-1992 *Management*. Project management research projects, line management research department
- 1986- *Teaching*. Teaching environmental chemistry and multimedia fate modeling in national and international post-academic training courses.
- 1984 - *Modeling and risk assessment*. Modeling distribution and fate of organic contaminants in the environment. Special focus on spreadsheet-based multimedia fate modeling (SimpleBox).

Current activities

Actualization, improvement and optimization of multimedia fate models (e.g. spatial and temporal resolution). Use of multimedia models in screening substances for 'persistence in the environment' and 'long-range transport potential'. Model-based calculation of toxic pressure to ecosystems. Model-assisted selection of substances for environmental monitoring. Risk assessment of mixtures of substances. Development of environmental policy indicators for toxic substances.

Professional side activities

- 1966-1967 President student union secondary school
- 1970-1971 Vice-president student union university
- 1986-1992 Chairman Environmental Chemistry Section, Royal Netherlands Chemical Society
- 1988-1990 Local Organizing Committee International Workshop on QSAR in Ecotoxicology, 1990
- 1988-1990 Organizing Committee 12th ESPCB, 1990
- 1990-1992 Local Organizing Committee Second European Conference on Ecotoxicology, 1992
- 1997-1999 Steering Committee, SETAC Task Force on Environmental Persistence and Long-Range Transport of chemicals
- 1999-2005 Treasurer, Chemistry Circle Netherlands-Central, Royal Netherlands Chemical Society (KNCV)
- 2003- Organizing Committee, 16th Annual Meeting, SETAC Europe, 2006
- 2004- Board member, Netherlands Society Environmental Scientists (VVM)
- 2004- Editor, SAR and QSAR in Environmental Research

Memberships

- 1984 - Member of the Royal Netherlands Chemical Society (KNCV)
- 1987-2004 Member of the Netherlands Society of Toxicology (NVT)
- 1989 - Member of the Society of Environmental Toxicology and Chemistry (SETAC), Europe
- 1989-1998 Member of the Int. Association on Water Pollution Research and Control (IAWPRC)
- 2004- Member of the Netherlands Society of Environmental Professionals (VVM)

OUTPUT**Publications in scientific journals, book chapters**

- W.L. Maters, **D. van de Meent**, P.J.W. Schuijl, J.W. de Leeuw, P.A. Schenck, H.L.C. Meuzelaar. Curie-point pyrolysis in organic geochemistry. In: Analytical Pyrolysis (C.E.R. Jones and C.A. Cramers, eds.), pp 203-216, Elsevier, Amsterdam, 1977
- D. van de Meent**, W.L. Maters, J.W. de Leeuw, P.A. Schenck. Formation of artifacts in sediments upon freeze-drying. *Organic Geochemistry*, 1(1977), 7-9
- J.W. de Leeuw, W.L. Maters, **D. van de Meent**, J.J. Boon. Solvent-free and splitless injection method for open tubular columns. *Analytical Chemistry*, 49(1977), 1881-1884
- D. van de Meent**, S.C. Brown, R.P. Philp, B.R.T. Simoneit. Pyrolysis-high resolution gas chromatography and pyrolysis-gas chromatography-mass spectrometry of kerogens and kerogen precursors. *Geochimica et Cosmochimica Acta*, 44(1980), 999-1013
- D. van de Meent**, J.W. de Leeuw, P.A. Schenck. Chemical characterization of non-volatile organics in suspended matter and sediments of the river Rhine delta. *Journal of Analytical and Applied Pyrolysis*, 2(1980), 249-263
- D. van de Meent**, J.W. de Leeuw, P.A. Schenck. Origin of unsaturated isoprenoid hydrocarbons in pyrolysates of suspended matter and surface sediments. In: *Advances in Organic Geochemistry 1979* (J.R. Maxwell and A.G. Douglas, eds.), pp 469-474, Pergamon, 1980
- D. van de Meent**, A. Los, J.W. de Leeuw, P.A. Schenck, W. Salomons. Stability constants and binding capacities of fractionated suspended matter for cadmium. *Environmental Technology Letters*, 2(1981), 569-578
- D. van de Meent**, J.W. de Leeuw, P.A. Schenck, J. Haverkamp, W. Windig. Quantitative analysis of biopolymer mixtures by pyrolysis-mass spectrometry. *Journal of Analytical and Applied Pyrolysis*, 4(1982), 133-142
- D. van de Meent**. Particulate organic matter in the river Rhine delta. -Its role in trace metal scavenging. Doctoral thesis. Delftse Universitaire Pers, 1982
- R.P. Philp, **D. van de Meent**. Characterisation of Precambrian kerogens by Curie-point pyrolysis combined with gas chromatography and gas chromatography-mass spectrometry. *Precambrian Research*, 20(1983), 3-16
- D. van de Meent**, A. Los, J. W. de Leeuw, P.A. Schenck, J. Haverkamp. Size fractionation and analytical pyrolysis of suspended particles from the river Rhine delta. In: *Advances in Organic Geochemistry 1981* (M. Bjoroy, ed.), pp 336-349, John Wiley, 1983
- D. van de Meent**, J.A.A. van Oosterwijk, T. Aldenberg. Spoorelementen in regenwater: RID-VEWIN Meetnet Regenwater 1978-1982. In: *Zure regen - oorzaken, effecten and beleid* (E.H. Adema and J. van Ham, eds.), pp 91-92, Pudoc, Wageningen, 1984
- D. van de Meent**, J.W. de Leeuw, P.A. Schenck, W. Salomons. Geochemistry of suspended matter in two sedimentation basins of the river Rhine. *Water Research*, 19(1985), 1333-1340
- D. van de Meent**. Suspended particles in natural waters. In: *Proceedings of the CEC-COST 641 Workshop on "Physico-chemical behaviour of organic micropollutants in the aquatic environment"* (ed. P.C.M. van Noort), pp 6-9, Commission of the European Communities publication no. OMP/60/85 XII/ENV/39/85 (1986)
- H. den Hollander, **D. van de Meent**, P. van Noort, E. Wondergem. Wet deposition of polycyclic aromatic hydrocarbons in The Netherlands. *Science of the Total Environment*, 52(1986), 211-219
- D. van de Meent**, H.A. den Hollander, W.G. Pool, M.J. Vredenburg, H.A.M. van Oers, E. de Greef, J.A. Luijten. Organic micropollutants in Dutch coastal waters. *Water Science and Technology*, 18(1986), 73-81
- P.S. Griffioen, **D. van de Meent**. Predicting transport behaviour of organic pollutants using simple mathematical models. In: *Organic Micropollutants in the Aquatic Environment* (G. Angeletti and A.

- Bjorseth, eds.), pp. 144-153. Water Pollution Research Reports series no.4, Commission of the European Communities. Kluwer Academic Publishers, 1987
- D. van de Meent.** Environmental chemistry: Instrument in ecological risk assessment. In: Manual on Aquatic Ecotoxicology (H.A.M. de Kruijf, D. de Zwart, P.K. Ray and P.N. Viswanathan, eds.), pp. 31-35, Allied Publishers Pvt. Ltd., New Delhi, 1988
- D. van de Meent.** Exchange processes. In: Manual on Aquatic Ecotoxicology (H.A.M. de Kruijf, D. de Zwart, P.K. Ray and P.N. Viswanathan, eds.), pp. 48-52, Allied Publishers Pvt. Ltd., New Delhi, 1988
- D. van de Meent.** Exposure modeling I: Principles. In: Manual on Aquatic Ecotoxicology (H.A.M. de Kruijf, D. de Zwart, P.K. Ray and P.N. Viswanathan, eds.), pp. 77-81, Allied Publishers Pvt. Ltd., New Delhi, 1988
- D. van de Meent.** Exposure modeling II: The use of simple box models. In: Manual on Aquatic Ecotoxicology (H.A.M. de Kruijf, D. de Zwart, P.K. Ray and P.N. Viswanathan, eds.), pp. 82-87, Allied Publishers Pvt. Ltd., New Delhi, 1988
- C.J.M. Kramer, **D. van de Meent.** Application of chemical speciation models. In: Manual on Aquatic Ecotoxicology (H.A.M. de Kruijf, D. de Zwart, P.K. Ray and P.N. Viswanathan, eds.), pp. 95-99, Allied Publishers Pvt. Ltd., New Delhi, 1988
- D. van de Meent.** Intercompartment transfer of pollutants. *Science of the Total Environment*, 90(1990), 41-54
- D. van de Meent,** H.A. den Hollander, J.H. Verboom. Desorption kinetics of metals and PAH from suspended particles: experimental observations and modeling. In: Organic micropollutants in the aquatic environment (G. Angeletti and A. Bjørseth, eds.), pp. 50-60, Kluwer, 1991
- L.A. van der Kooij, **D. van de Meent,** C.J. van Leeuwen, W.A. Bruggeman. Deriving quality criteria for water and sediment from the results of aquatic toxicity tests and product standards: application of the equilibrium partitioning method. *Water Research*, 25(1991), 697-705
- J. Struijs, J. Stoltenkamp, **D. van de Meent.** SimpleTreat, a box model of the behavior of micropollutants during waste water treatment. *Water Research*, 25(1991), 891-900
- W.J.G.M. Peijnenburg, M.J. 't Hart, H.A. den Hollander, **D. van de Meent,** J.H. Verboom, N.L. Wolfe. Reductive transformations of halogenated aromatic hydrocarbons in anoxic sediment systems: Kinetics, mechanisms and products. *Environ. Toxicol. Chem.*, 11(1992), 289-300
- W.J.G.M. Peijnenburg, M.J. 't Hart, H.A. den Hollander, **D. van de Meent,** J.H. Verboom, N.L. Wolfe. QSARs for predicting biotic and abiotic reductive transformation rate constants of halogenated hydrocarbons in anoxic sediment systems. *Environ. Toxicol. Chem.*, 11(1992), 301-314
- C.A.F. Romijn, R. Luttkik, **D. van de Meent,** W. Slooff, J.H. Canton: Presentation of a general algorithm to include effect assessment on secondary poisoning in the derivation of environmental quality criteria. *Ecotoxicol. Environ. Safety*, 26(1993), 61-85
- G.M.J. Tubbing, W. Admiraal, R.F.M.J. Cleven, M.Iqal, **D. van de Meent,** W. Verwey. The contribution of complexed copper to the metabolic inhibition of algae and bacteria in synthetic media and river water. *Water Res.*, 28(1993), 37-44
- J. de Bruijn, E. Guinée, **D. van de Meent.** Rekening houden met atmosferische depositie in normstelling and bodembeleid. Proceedings Symposium Atmosferische depositie and bodemkwaliteit, December 1992
- D.T. Jager, C.J.M. Visser, **D. van de Meent.** Uniform system for the evaluation of substances. IV Distribution and intake. *Chemosphere*, 29(1994), 353-369
- D. van de Meent,** J. de Bruijn. A modeling procedure to evaluate the coherence of independently derived environmental quality objectives for air, water and soil. *Environ. Toxicol. Chem.*, 14(1995), 177-186
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- M. van den Berg, **D. van de Meent,** W.J.G.M. Peijnenburg, D.T.H.M. Sijm, J.W. Tas. Transport,

- accumulation and transformation processes. In: Risk Assessment of Chemicals, (C. J. van Leeuwen and J.L.M. Hermens, eds.), pp 37-102. Kluwer, 1995.
- D. van de Meent**, J.H.M. de Bruijn, F.A.A.M. de Leeuw, A.C.M. de Nijs, D.T. Jager, T. Vermeire. Exposure modeling. In: Risk Assessment of Chemicals, (C. J. van Leeuwen and J.L.M. Hermens, eds.), pp 103-145. Kluwer, 1995.
- J.B. Guinée, R. Heijungs, L.F.C.M. van Oers, A. Wegener Sleeswijk, **D. van de Meent**, Th. Vermeire, M. Rikken. USES - Uniform System for the Evaluation of Substances: Inclusion of fate in LCA characterisation of toxic releases applying USES 1.0. *Int. J. LCA*, 1 (3) 133-138 (1996).
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- R.S. Etienne, F.H. Willemsen, A.M.J. Ragas, **D. van de Meent**. Uncertainties in evaluating the coherence of independently derived environmental quality objectives for air, water and soil. In: *New Concepts for Sustainable Management of River Basins* (P.H. Nienhuis, R.S.E.W. Leuven and A.M.J. Ragas, eds.), pp 283-290, Backhuys Publishers, Leiden, 1998.
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- R.S. Boethling, D. Calamari, C. Cowan-Ellsberry, S. Eisenreich, J. Franklin, C.P.L. Grady Jr., D.G. Graham, B. Hansen, P.H. Howard, K.C. Jones, K. Kannan, G.M. Klecka, R.J. Larson, R.W. Macdonald, D. Mackay, T. McKone, D. Muir, T. parkerton, L. Thibodeaux, **D. van de Meent**, T. Wallington, C. Zetch. Evaluation of persistence and long-range transport of chemicals in the environment: Summary of a SETAC Pellston Workshop. *Environ. Toxicol. Chem.* 18(8), supplement (1999).
- D.J. Bakker, A. Gilbert, D. Gottschild, T. Kuchnicki, R. Laane, J. Linders, **D. van de Meent**, M. Montforts, J. Pino, J. Pol, N. van Straalen. Implementing atmospheric fate in regulatory risk assessment of pesticides. *Water, Air, Soil Pollut.*, 115(1999), 257-266.
- G. Klečka, B. Boethling, J. Franklin, L. Grady, D. Graham, P.H. Howard, K. Kanan, R.J. Larson, D. Mackay, D. Muir, **D. van de Meent** (eds.). Evaluation of persistence and long-range transport of organic chemicals in the environment. SETAC Press, Pensacola (2000).
- D. van de Meent**, T.E. McKone, T. Parkerton, M. Matthies, M. Scheringer, F. Wania, R. Purdy, D. Bennett. Persistence and transport potentials of chemicals in a multi-media environment. In: *Persistence and long-range transport of chemicals in the environment* (G. Klečka *et al.* eds.), pp. 169-204. SETAC Press, Pensacola (2000).
- M. Huijbregts, U. Thissen, J. Guinée, T. Jager, D. Kalf, **D. van de Meent**, A. Ragas, A. Wegener Sleeswijk, L. Reijnders. Priority assessment of toxic substances in Life Cycle Assessment. I: Calculation of toxicity potentials for 181 substances with the nested multi-media fate, exposure and effects model USES-LCA. *Chemosphere*, 41(2000), 541-573.
- M. Huijbregts, U. Thissen, T. Jager, **D. van de Meent**, A. Ragas. Priority assessment of toxic substances in Life Cycle Assessment. II: Assessing parameter uncertainty and human variability in the calculation of toxicity potentials. *Chemosphere*, 41(2000), 575-588.

- T. P. Traas, **D. van de Meent**, L. Posthuma, T. H.M. Hamers, B. J. Kater, D. de Zwart, T. Aldenberg. Potentially Affected Fraction as measure of toxic pressure on ecosystems. In: Use of Species Sensitivity Distributions in Ecotoxicology, eds. L. Posthuma, G.W. Suter, T.P. Traas. Lewis Publishers (2002).
- M. Huijbregts, **D. van de Meent**, M. Goedkoop, R. Spriensma. Ecotoxicological Impacts in Life Cycle Assessment. In: Species Sensitivity Distributions in Ecotoxicology, eds. L. Posthuma, G.W. Suter, T.P. Traas. Lewis Publishers (2002).
- W. Peijnenburg, H. den Hollander, **D. van de Meent**, D. de Zwart. Ontwikkeling en toepassing van een milieu-kwaliteitsindicator bestrijdingsmiddelen. *H₂O*, 18(2002), 28-30.
- M.A.J. Huijbregts, S. Lundie, T.E. McKone, **D. van de Meent**. Geographical scenario uncertainty in generic fate and exposure factors of toxic pollutants for life-cycle impact assessment. *Chemosphere* 51(2003) 501–508.
- D. van de Meent**. Meer dan een glazen bol. Inaugural address, 6 February 2004. University of Nijmegen. ISBN 90-9017886-4.
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- M.A.J. Huijbregts, L.M.J. Geelen, E.G. Hertwich, T.E. McKone, **D. van de Meent**. A comparison between the multimedia fate and exposure models CalTOX and USES-LCA based on the population intake fraction of toxic pollutants. *Environ. Toxicol. Chem.* 24(2005), 486–493
- D. van de Meent**, M.A.J. Huijbregts. Calculating LCA effect factors from PAF-based ecotoxicological response functions. *Environ. Toxicol. Chem.* 24(2005), 1573-1578.
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- M.A.J. Huijbregts, L.J.A. Rombouts, A.M.J. Ragas, **D. van de Meent**. Human-Toxicological Effect and Damage Factors of Carcinogenic and Noncarcinogenic Chemicals for Life Cycle Impact Assessment. *Integrated Environmental Assessment and Management*, 1(2005), 181–192.
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- M.A.J. Huijbregts, J. Struijs, L.J.A. Rombouts, S. Hellweg, R. Frischknecht, A.J. Hendriks, **D. van de Meent**, A.M.J. Ragas, L. Reijnders, J. Struijs. Is cumulative fossil energy demand a useful indicator for the environmental performance of products? *Environ. Sci. Technol.*, in press.
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