

Curriculum vitae Bert van Hattum

Name: dr. A.G.M. van Hattum
First name: Bert
Born: 1952 in Beverwijk
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Academic training

1995 PhD, Faculty of Biology, Vrije Universiteit, Amsterdam
1970-1977: Masters degree in Chemistry, University Utrecht. Major fields: Environmental chemistry, analytical chemistry, chemical oceanography (NIOZ), grade one qualification teaching chemistry at secondary school

Professional employment history

2014 - 2018 Deltares, senior scientist environmental chemistry and chemical fate modeling
1984 – 2015: Senior scientist, programme manager environmental chemistry and ecotoxicology, Institute for Environmental Studies, Vrije Universiteit Amsterdam;
1981 – 1984 Reinwater Foundation, Amsterdam
1977 – 1981 Department of Gynaecology and Obstetrics, University of Amsterdam / Institute for Environmental Studies, Free University, Amsterdam

Working experience

Dr Bert van Hattum (PhD) is a senior scientist in environmental chemistry and ecotoxicology, and has been involved in many field, experimental and modelling studies on chemical fate, bioaccumulation and food chain transfer, within the scope of PhD projects, contract research for government and industry, and various EU Framework projects. He has authored or co-authored over more than 72 reviewed papers (H-index over 21), 101 technical reports, 8 book chapters, and 75 presentations at conferences.

Through memberships of professional and network organizations (IAWR, SETAC, SEDNET) and the editorial board of the journal Environmental Pollution (1993-1999) he has an extensive network. Recent and current studies include the development of models for the exposure assessment of antifoulants and pollutants in ballast water (MAMPEC), field assessment and models for bioaccumulation in estuarine food webs, whole effluent testing of industrial effluents with biological and chemical methods, evaluation frameworks for sediment quality assessment, bioavailability of sediment-bound contaminants, and organotin compounds in marine invertebrates and mammals.

From 1970-1977 B. van Hattum studied chemistry at the State University of Utrecht, with majors in analytical chemistry and chemical oceanography and a minor in didactics of chemistry. Between 1977 and 1981 he worked as contract researcher at the Department of Gynaecology and Obstetrics, University of Amsterdam and at the Institute for Environmental Studies, Free University, Amsterdam, involved in epidemiological projects on exposure and effects of Cd and PAHs. In the period between 1981-1984 he conducted environmental policy analysis studies for the Reinwater Foundation,

Amsterdam, a private NGO working in the field of environmental conservation of transboundary river systems.

In 1984 he joined the Institute for Environmental Studies, and was involved in regional studies on environmental fluxes of pollutants (nutrients, trace metals, PCB's) and in biological monitoring projects with aquatic and terrestrial organisms. Ecotoxicological studies, conducted between 1986 and 1991 (on bioaccumulation and effects of trace metals, PAHs and organophosphorous compounds in freshwater invertebrates) were included in a thesis successfully defended in 1995. Since 1990 he has been involved in acquisition, execution, project management and supervision of various studies (contract research, PhD-projects) on: foodchain transfer and effects of planar PCBs in top predators (otter, cormorant, spoonbill, reed warbler, badgers), analysis and bioaccumulation of organotin compounds in marine and freshwater invertebrates and marine mammals, risk-assessment of produced water discharges from offshore installations, emissions and chemical fate of oil constituents, modelling and prediction of mixture-toxicity of sediment bound oil contaminants, analysis and chemical fate modelling of antifoulants in coastal environments, whole effluent testing with integrated chemical (GC-ECD/GC-MS) and biological (in-vitro assays) methods, evaluation of biomonitoring programmes, sustainability and environmental quality in river basins.

Between 1985 and 2010 this included coordination or execution of more than 40 different projects for various sponsors, such as the European Commission (R&D Framework programmes, LIFE, Interreg), the Dutch Government (ministries of VROM, V&W, LNV, IM), cities (Amsterdam, Delft), port of Rotterdam, Provinces Noord-Holland, South-Holland, Utrecht) national and international industry (NOGEPA, AKZO, CEPE, CEFIC, Eurochlor), environmental NGOs (Greenpeace, Birdlife International, Noordzee, Natuur and Milieu), national water management organisations (RWS, STOWA) national research institutes (RIVM, TNO, NIOZ, Deltares, and former RIZA, RIKZ, Delft Hydraulics) and research funding organisations (NWO, ESF).

Through memberships of professional organizations (IAWR, SETAC, SEDNET, KNCV, NVT), the editorial board of the journal Environmental Pollution (1993-1999), manuscript review for various journals, and participation in advisory committees (GESAMP) he has maintained a broad network and regular contact with foreign colleagues.

Teaching activities included supervision of internships, minor projects, or literature studies of MSc students, daily supervision of several PhD student, short (1-2 day) courses on assessment and modelling of chemical fate, marine pollution, bioaccumulation and biomagnifications in food webs in BSc, MSc and postgraduate programmes at different universities in the Netherlands (VUA, VUA, TU-Delft). Dedicated 1-day courses on environmental fate modelling were presented several times for industry and authorities involved in admission of biocides in the Netherlands, Brussels and Heredia (Costa Rica).

Research interests

Environmental chemistry / Aquatic Ecotoxicology / Environmental modelling/ Fate and effects of sediment-bound contaminants / Bioaccumulation and toxicokinetics of contaminants marine and freshwater organisms / Food chain transfer / Bioavailability / Biological monitoring / Trace analysis of contaminants: trace metals / PCBs / PAHs / Organotins / Antifoulants / Wastewater assessment methods / Effect Directed Analysis and TIE approaches/ Risk assessment / Environmental quality criteria.

Editorial activities

Membership of Editorial Board Environmental Pollution (1993-1999).

Review of manuscripts for various journals: Water Research, Environmental Science and Technology and International Journal of Environmental Analytical Chemistry, Archives of

Environmental Contamination and Toxicology, Science of the Total Environment, Chemosphere, Environmental Chemistry and Toxicology, Marine Environmental Science, Chemosphere
Review of project proposals: Programme Sustainable Management of the North Sea (Belgium), Graduate Research School SENSE,

Further activities

Board Member of private NGOs: ICWS (1984-1989), Reinwater Foundation, Amsterdam (1985-1995).
Board member Section Environmental Toxicology of the Dutch Society of Toxicology (NVT –MT, 1990-1995)
Participant advisory committee Project Integrated Criteria Setting (INS) for PCBs, Ministry of Housing, Spatial Planning and the Environment (1995)
Member of expert panel in IMSA-project ‘Towards an innovative discussion on chlorine’ commissioned by AkzoNobel (2007)
Member of expert group Ballast Water, Ministerie van Verkeer en Waterstaat (2008-2015)
Advisory services IMO / GESAMP BWWG (London), 2009 - 2014.
Steering Committee EURAPMON - project, European Science Foundation (ESF), 2010 – 2014
Expert member of EFSA PPR Panel Working group sediment effect assessment, 2013 - 2015

Publications

Books /bookchapters

Van Hattum, B., A. Baart, and J. Boon (2006). Emission estimation and chemical fate modelling of antifoulants. In: Konstantinou, I.K. (Ed.). Antifouling Paint Biocides. Handbook of Environmental Chemistry Vol. 5/O, Springer Verlag, Berlin (Germany), pp. 101-120.
Den Besten, P.J. , D. ten Hulscher and B. van Hattum. (2003). Bioavailability, uptake and effects of PAHs in aquatic invertebrates. In: P. Douben (ed.). PAHs: an ecological perspective. John Wiley & Sons Ltd, London., p. 127-146
Burgess, Robert M., Michael J. Ahrens, Christopher W. Hickey, Pieter J. den Besten, Dorien ten Hulscher, Bert van Hattum, James P. Meador, Peter E. T. Douben (2003). An Overview of the Partitioning and Bioavailability of PAHs in Sediments and Soils. In: P. Douben (ed.). PAHs: an ecological perspective. John Wiley & Sons Ltd, London., p 99-126
Schutte, H. B. van Hattum (1999). Lepelaars en chemische verontreiniging. In: Lang Leve de Lepelaar - Vijf jaar samenwerken aan soortbescherming. Vogelbescherming Nederland, Driebergen-Zeist. (In Dutch).
Van Brummelen TA, Van Hattum B, Crommentuijn T, Kalf DF (1998). Bioavailability and ecotoxicity of PAHs. In: Neilson A, Hutzinger O (1998) PAHs and related compounds. The Handbook of Environmental Chemistry Vol. 3 Part J., Springer Verlag, Berlin (Germany), pp. 203-263.
Van Hattum, B. (1995). Bioaccumulation of sediment-bound contaminants by the freshwater isopod *Asellus aquaticus* (L.). Thesis. Vrije Universiteit, Amsterdam, Netherlands.
Van Hattum, B. (1991). Hydrophobic compounds in aquatic systems. In: Van Straalen, N.M. and J.A.C. Verkley (eds.). Textbook Ecotoxicology. Vrije Universiteit Uitgeverij, Amsterdam, p.97-105. (in Dutch).
Groen, M., B. van Hattum and P. de Voogt (1983). The fyke: distribution and effects of PCBs in the Netherlands. Milieudefensie / Friends of the Earth., Amsterdam (in Dutch).

Articles

- Tuikka, A.I. M.T. Leppänen, J. Akkanen, A.J. Sormunen, P.E.G. Leonards, B. van Hattum, L.A. van Vliet, W. Brack, F. Smedes, J.V.K. Kukkonen (2016). Predicting the bioaccumulation of polyaromatic hydrocarbons and polychlorinated biphenyls in benthic animals in sediments, *Science of The Total Environment* 563–564, 396–404.
- Espin, S., A.J. Garcia-Fernandez, D. Herzke, R.F. Shore, B. van Hattum, E. Martinez-Lopez, M. Coeurdassier, I. Eulaers, C. Fritsch, P. Gómez-Ramírez, V. L. B. Jaspers, O. Krone, G. Duke, B. Helander, R. Mateo, P. Movalli, C. Sonne, and N. W. van den Brink (2015). Tracking pan-continental trends in environmental contamination using sentinel raptors - what types of samples should we use? *Ecotoxicology* 25, 777–801.
- Hamers, T., Kamstra, J.H., Gils, J. van, Kotte, M.C. & Hattum, A.G.M. van (2015). The influence of extreme river discharge conditions on the quality of suspended particulate matter in Rivers Meuse and Rhine (The Netherlands). *Environmental Research*, 143, 241–255
- Gómez-Ramírez, P., Shore, R. F., Brink, N.W. van den, Hattum, A.G.M. van, Bustnes, J.O., Duke, G., Fritsch, C., Gracia-Fernandez, A.J., Helander, B.O., Jaspers, V., Krone, O., Martinez-Lopez, E., Mateo, R., Movalli, P.A. & Sonne, C. (2014). An overview of existing raptor contaminant monitoring activities in Europe. *Environment International*, 67, 12–21.
- Yehouenou A. Pazou, E., P. E. Aléodjrodo, J. P. Azehoun, N. M. van Straalen, B. van Hattum, K. Swart, and C. A. M. van Gestel (2014). Pesticide residues in sediments and aquatic species in Lake Nokoué and Cotonou Lagoon in the Republic of Bénin. *Environ Monit Assess* 186:77–86.
- Yehouenou A. Pazou, E., P. E. Aléodjrodo, J. P. Azehoun, N. M. van Straalen, B. van Hattum and C. A. M. van Gestel (2013). Health Risks Associated With Pesticide Residues in Sediments, Fish, and Plants From the Ouémé Valley in the Republic of Bénin. *Archives of Environmental Contamination & Toxicology* 65, 260–265
- De Boer, J. N. Lammertse, J. Koekkoek, B. van Hattum (2012). PCB and organochlorine pesticides contents in eel increase after frying. *Chemosphere* 90: 139–142.
- Pereira AA, van Hattum B, Brouwer A (2012). Hepatic retinoid levels in seven fish species (teleosts) from a tropical coastal lagoon receiving effluents from iron-ore mining and processing. *Environmental Toxicology and Chemistry* 31:408–416.
- Bontje D, Kooi B, van Hattum B. 2011. Sublethal toxic effects in a generic aquatic ecosystem. *Ecotoxicology and Environmental Safety* 74:929–939.
- Hein, M., E. de Deckere, D. de Zwart, E.M. Foekema, A. Marcomini, I. Muñoz, L. Posthuma, S. Rotter, S. Sabater, C. Schmitt, M. Schmitt-Jansen, H. Segner, E. Semenzin, J. van Gils, B. van Hattum, L. A. van Vliet, P.C. von der Ohe, W. Brack (2010). MODELKEY - Key findings and recommendations for reaching the EU Water Framework Directive's quality objectives. *Umweltwiss Schadst Forsch* 22:217–228
- Claudia Schmitt*, Jan Balaam, Pim Leonards, Rikke Brix, Georg Streck, Anita Tuikka, Lieven Bervoets, Werner Brack, Bert van Hattum, Patrick Meire and Eric de Deckere (2010). Characterizing field sediments 1 from three European river basins with 2 special emphasis on endocrine effects – A recommendation for *Potamopyrgus antipodarum* as test organism. *Chemosphere* 80: 13–19.
- Pereira, A.A., B. van Hattum, Boer, J. de, P. M. van Bodegom, C. E. Rezende, W. Salomons (2010). Trace elements and carbon and nitrogen stable isotopes in organisms from a tropical coastal lagoon. *Archives of Environmental Contamination and Toxicology* 59:464–477.
- Tuikka, A.I., C. Schmitt, S. Höss, N. Bandow, P.C. von der Ohe, D. de Zwart, E. de Deckere, G. Streck, S. Mothes, B. van Hattum, A. Kocan, R. Brix, W. Brack, D. Barceló, A.J. Sormunen, J.V.K. Kukkonen (2011). Toxicity assessment of sediments from three European river basins using a sediment contact test battery *Ecotoxicology and Environmental Safety* 74: 123–131.
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- Yehouenou E., P. Lalèyè, M. Boko, C.A.M. van Gestel, H. Ahissou, S. Akpona, B. van Hattum, K. Swart and N.M. van Straalen (2006). Contamination of fish by organochlorine pesticide residues in the Oueme River catchment in the Republic of Benin. *Environment International* 32:594-599
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- Steen, R.J.C.A., J. Jacobsen, F. Ariese, A.G.M. van Hattum, and A. Jacobson (2004). Monitoring of the marine antifoulant 4,5-dichlor-2-n-octyl-4-isothiazolin-3-one (DCOI) in a danish harbor. *Chemosphere* 57: 513-521.
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- Van Hattum, B. (2013). Wat zijn de gevaren van vlamvertragers. Lezing tijdens de Jaarvergadering 2013 van de Werkgroep Roofvogels Nederland, Meppel, 16 february 2013.
- Van Hattum, B. (2013). New approaches in environmental monitoring and assessment - Recent experiences with toxicity profiling, effect-directed analysis (EDA), passive sampling and other approaches. Lecture at Instituto Regional de Estudios en Sustancias Tóxicas de la Universidad Nacional (IRET-UNA), Heredia, Costa Rica. 5 Nov 2013.
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- Van Hattum, B. and Baart (1999). MamPec: a computer model to generate PECs for antifoulants in the marine environment. Presentation at 43rd Meeting of the Marine Environmental Protection Committee of the International Maritime Organization (MEPC-IMO), 26-30 June 1999, London.

- Van Hattum, B., O. Epema, I. Burgers and R. Steen (1998). Bioavailability of pesticides and secondary poisoning in waterfowl in bulb-farming areas. Presentation at 8th Annual Meeting SETAC-Europe, 14-18 April, 1998, Bordeaux, France.
- Van Hattum, B. (1998) Risk Analysis and management. Presentation at: SENSE Peer Review Meeting Core I, December 2nd, Vrije Universiteit, Amsterdam
- Van Hattum, B., A. Baart (1998). Computer model to generate PECs for antifoulants in the marine environment. Presentation at steering group meeting of Antifouling Working Group of European Paint Makers Association (CEPE / CEFIC), EU-DG XI, April 26th, Brussels.
- Van Hattum, A. Baart (1998). Poster, video presentation of prototype computer model to generate PECs for antifoulants in the marine environment. 42th Meeting of the Marine Environmental Protection Committee of the International Maritime Organization, 2-5 November 1998, London.
- Van Hattum, A. Baart (1998). Presentation of prototype computer model to generate PECs for antifoulants in the marine environment - study within CEPE/EU-DG XI Project 'Utilisation of more environmental friendly antifouling products' - presentation of prototype Presentation at steering group meeting of Antifouling Working Group of European Paint Makers Association (CEPE / CEFIC), EU-DG XI, December 15th, Brussels.
- Van Hattum, B. (1996). *Species differences in toxicokinetics of microcontaminants in invertebrates*. Lecture at: Winterschool of Ecotoxicology, Netherlands Institute of Marine Research/NIOZ, Texel, Netherlands, Febr. 29.
- Van Hattum, B. (1996). *Development of Otter-based Quality Objectives for PCBs (DOQOP). Studies on Biomagnification of PCBs in the Limfjord Area (Denmark)*. Oral presentation at: DIOXIN 96, 16th Symposium on Chlorinated Dioxins and Related Compounds, Amsterdam, August 12-16, 1996.
- Van Hattum, B. (1995). *Quality objectives for contaminants in wetlands selected for otter-repopulation projects in The Netherlands*. Platform presentation at: SETAC-Europe 5th Annual Meeting, Copenhagen 25-28 June.
- Van Hattum, B. (1994). *Otters and pollution*. Key note lecture at the "Otter seminar" of IUCN, Council of Europe, Dutch Ministry of Agriculture, Nature Management and Fisheries, June 5-11, Leeuwarden, Netherlands,
- Van Hattum, B. (1993). *Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls in freshwater isopods*. Poster presentation at SETAC world congress "Ecotoxicology and environmental chemistry - a global perspective. March 28-31, Lisbon, Portugal.
- Van Hattum, B. (1993). *Biological monitoring of bioaccumulation and effects of micropollutants in piscivorous birds*. Lecture at workshop "Status of birds in the Rhine-Meuse estuary", Rijkswaterstaat, Directie Zuid-Holland/Ministry of Transport, Public Works and Water Management, Rotterdam March 2.
- Van Hattum, B. (1992). *Toxicokinetics and bioaccumulation of PAH in aquatic invertebrates*. Oral presentation at Workshop "PAH in The Netherlands", Netherlands Society of Toxicology, Utrecht, 2 December, (in Dutch).
- Van Hattum, B. (1992). *Bioaccumulation of produced water related compounds under time-varying conditions*. Workshop "Environmental aspects of offshore production chemicals. Rijswijk, November, 26.
- Van Hattum, B. (1992). *Bioaccumulation of trace elements by freshwater invertebrates*. Lecture presented at Netherlands Institute for Marine Research (NIOZ), Texel, March 13.
- Van Hattum, B. (1992). *Summary of poster presentations*. Oral presentation at national workshop on contaminated sediments: "Waterbodems te vies om op te pakken", KNCV/NVT, De Reehorst, Wageningen, February 20-21.
- Van Hattum, B. (1991). *Trace metals in populations of freshwater isopods in The Netherlands*. Oral presentation at Founding Conference of Society of Environmental Toxicology and Chemistry, Europe "Environmental Sciences and sustainable development". Sheffield, UK, 6-10 April.

- Van Hattum, B. (1991). *Effects of individual polychlorobiphenyl congeners on cormorants*. Coauthor of oral presentation by P. De Voogt at Founding Conference of Society of Environmental Toxicology and Chemistry, Europe "Environmental Sciences and sustainable development". Sheffield, UK, 6-10 April.
- Van Hattum, B. (1990). *Bioconcentration of polynuclear (hetero)aromatic hydrocarbons by freshwater isopods and guppy: prediction by QSAR*. Presentation at: 4th International Workshop on QSAR in Environmental Toxicology, Veldhoven, The Netherlands, Sept.
- Van Hattum, B. (1989). *Accumulation of trace metals from a polluted sediment by the freshwater isopod Asellus aquaticus (L.) - influence of temperature, substrate and pH*. Oral presentation at: SIL - 1989, XXIV Congress of the International Association of Limnology, Munich, BRD, August.
- Van Hattum, B. (1989). *Accumulation of cadmium from sediments, water and dietary sources by the freshwater isopod Asellus aquaticus (L.) - mechanisms, kinetics and internal distribution*. Oral presentation at: 10th annual meeting of the Society of Environmental Toxicology and Chemistry "Transboundary Pollution", Toronto, Canada, Oct. 28 - Nov. 2.
- Timmermans, K.R., B. van Hattum and H. Govers. (1989). *Abiotic and biotic factors influencing bioavailability of trace metals to aquatic invertebrates in freshwater ecosystems*. Coauthor oral presentation at: 10th annual meeting of the Society of Environmental Toxicology and Chemistry "Transboundary Pollution", Toronto, Canada, oct. 28 - Nov. 2.
- Van Hattum, B. (1988). *Bioavailability of cadmium, lead, zinc and copper in sediments and water to the freshwater isopod Asellus aquaticus*. Poster presentation at: Third International Conference of Environmental Contamination - Venice, sept.
- Van Hattum, B. (1987). *Bioavailability of heavy metals and PAH in contaminated sediments to Asellus aquaticus (L.)*. Poster presentation at: International symposium and interactions of sediments and water, Melbourne.

Teaching activities

PhD-Postdoc

Daily supervision of several PhD projects: A Alvez-Peraira (2005-2012), A. Hoenderboom (2003-2006 not finished), J. Stronkhorst (1999-2003), P. Leonards (1991-1997); contributions to supervision of PhD projects of R. Steen (1999-2002), J. Staeb (1990-1995), and G. Korthals (1998-2002).

Participation in PhD examination and reading committees: viva voce examination P. Wright (1996, University of Essex, Dept. of Biology); Van Brummelen (VU, 1996), Leonards (1997), Budi Widianarko (1998), Steen (2002), Stroomberg (2002), and J. Stronkhorst (2003), D. Bontje (2010) at the Vrije Universiteit; Bleeker (1999) and Jonker (2004) at the University of Amsterdam,

Participation in PhD reading committees: A. Hernández-García (2010. Univ. of Murcia, Spain), A. Sormunen (2008, University of Joensuu, Finland).

Supervision of post-doc project on TBT degradation: Dr. J. Salminen (2006-2008, SYKE, Finland)

Lectures (-day) on chemical fate assessment in postdoctoral course Environmental Chemistry and Ecological Risk Assessment of Micropollutants (2004, VU, SENSE)

Begeleider exchange programma ESF Eurapmon, mevr. dr. Pilar Gómez-Ramírez, Univ Murcia, Spain (23/10-1/12/2012) en prof dr. Prof. Dr. Antonio J. García Fernández, Dept. Toxicology, Faculty of Veterinary Medicine, Univ. of Murcia, Spain

MSc-level

Contributions to MSc Environmental Resource Management (IVM, VUA)

Mentor activities and portfolio supervision for groups of student groups (8-15 students). Period: 2005-2013

Supervision of various MSc research projects and literature studies (3 months, 18 ECTS): M. Gorycka (2009), J. Hiratsuka (2009), L. Smith (2009), C. Moroglou (2009) A. Alvarez (2007) and others (2004-2006),

ERASM Program 2011-2012 supervision Griekse Erasmus MSc studente (Crystallenia Karaberopoulou). 40 ECTS. Contaminanten in Lanner valk, slechtvalk en zwarte wouw.

Chemical fate Modelling. Lectures and practical training in MSc course Risk Assessment of Natural and Chemical Hazards (UVA, MSc programme Environmental Sciences). Period: 2002-2013

Transboundary River Pollution - 1-day lectures workshop in MSc course River Basin Management (VUA, FALW). Period: 2000 - 2002

Contributions to MScs course Ecotoxicology (VUA, Faculty of Biology), 1990-1995. Lectures on Environmental Fate of Aquatic Pollutants (1-day).

Environmental pollution – lectures in course Basiscursus Milieukunde (IVM), 1985 – 1995, MSc level, 2-day programme.

BSc-level

UvA BSc Future Planet Studies – 2e jaars cursus Water Quality (120 studenten) 2012/2103

– coördinatie en voorbereiding in opdracht van IIS, UvA

AUC: coördinatie en uitvoering BSc course (6 ECTS) Environmental Chemistry and Toxicology (SCI 900243) 9/1-3/2/2012 met C&B collega's

Other

MAMPEC – Exposure assessment model for antifouling agents. Training workshops: Jan. 2007 (VUA, Amsterdam), Febr. 2008 CEPE, Brussel (10 deelnemers).

Bioavailability and bioaccumulation. College in Course on Basic and Advanced Exposure Models. 25-27 January, 2010, Deltares, Delft. 10 persons

Short course: Aquatic exposure modeling and environmental risk assessment assessment (29 November 2010) Universidad Nacional, Heredia, Costa Rica during Congreso Ibérico, V Iberoamericano de Contaminación y Toxicología Ambiental (CICTA-2010), Heredia, Costa Rica, 29 november – 4 december 2010.