

## Curriculum Vitae – Chris Karman

Laatste update: Juli 2016

### Persoonlijke gegevens

Voornamen: Cornelis Christiaan  
Achternaam: Karman  
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Geslacht: man  
Geboortedatum: 8 mei 1968  
Huwelijkse staat: getrouwd (2 kinderen, 11 en 15 jaar oud)

Talen: Nederlands (moedertaal)  
Engels (vloeiend in woord en geschrift)  
Duits (redelijk in woord)

### Relevante werkervaring

2013-2016 WUR-ESG  
Head of Stakeholder Relationships

*Als lid van het leadership team van ESG (ca 1000 medewerkers) was ik verantwoordelijk voor het beleid met betrekking tot onze externe relaties (partners, klanten) voor zowel het toegepaste onderzoek (Alterra) als de universiteit (Departement Omgevingswetenschappen).*

*In deze rol heb ik het offerteproces gestroomlijnd, klantgericht werken geïntroduceerd (inclusief klantloyaliteitsmeting), inhoudelijke focus aangebracht middels de vorming van 4 stakeholder gerichte programma's en het valorisatieproces geïnitieerd. Het resultaat hiervan was een significante reductie van de het aantal afgewezen offertes, verhoging van de marge en verdubbeling van de omzet uit bilateraal contract onderzoek.*

2010-2012 WUR-DLO  
Manager Marktontwikkeling in opdracht van RvB en Concernraad (deeltijd, 50%)

*In deze rol heb ik met name gewerkt aan de ontwikkeling van het besef dat marktgericht opereren inhoudt dat we werken vanuit het belang van de klant. Hiertoe coördineer ik het strategie-thema 'versterking marktpositie DLO', coach ik de trekkers van een aantal DLO marktvelden en werk ik samen met beleidsdirecties (HRM, Communicatie) aan het verankeren van marktmanagement in de DLO organisatie.*

2006-2012 WUR-IMARES  
Manager Business Development

*Als Manager Business Development ben ik lid van het IMARES MT en verantwoordelijk voor de aansturing van de (additionele) marktontwikkeling van IMARES. Belangrijke aandachtsvelden hierbinnen zijn momenteel de private markt en de internationale markt. We zijn er met het inmiddels gevormde acquisitieteam in geslaagd IMARES te positioneren als sleutelspeler voor verduurzaming van de maritieme sector. Dit uit zich onder meer in deelname in het kernteam van het TKI Maritiem. Daarnaast geef ik sturing aan het IMARES marktteam (gericht op afdeling overstijgende marktontwikkeling), het team Internationaal en diverse ad-hoc marktteams.*

Interim en vervolgens plaatsvervangend hoofd afdeling Milieu (35 medewerkers) (tot en met 2009)

2002-2005

TNO Bouw en Ondergrond  
Hoofd afdeling Ecologische Risico's (25 fte) (2002-2005)  
Manager Business Development (aandachtsgebied: private markt) (2005-2006)

*In deze periode heb ik als afdelingshoofd leiding gegeven aan een onderzoeksafdeling (op een buitenpost) met veel experimentele faciliteiten en breed scala aan medewerkers. Een onverwachte bestedingsstop bij V&W, verantwoordelijk voor meer dan 30% vd omzet, hebben we door een gerichte marktstrategie voor een belangrijk deel weten te pareren.*

*Als Manager Business Development was ik verantwoordelijk voor het inrichten, trainen en implementeren van een instituutsmarktteam 'Industrie'.*

1993 – 2002

TNO-MEP, Afdeling Ecologische Risico's  
Onderzoeker en onderzoeksleider Ecologische Risico Beoordeling

*Mijn belangrijkste rol in deze periode was het bijdragen aan en vervolgens overnemen van de ontwikkeling en uitvoering van het onderzoeksdomein 'ecologische risicobeoordeling'. Acquisitie voor het volledige domein en aansturing van teamleden behoorden tot het takenpakket.*

## **Relevante opleidingen**

2015-2016	Transition to Business Leadership International Management Development (IMD), Lausanne
2006-2007	TNO Opleiding Account Management 'mini-MBA marketing', Twente School of Management
2005	SPIN Verkoop vaardigheden Huthwaite methodiek, Coach and Commitment
2001	TNO Opleiding lijnmanagement: TOTEM 'mini-MBA lijnmanagement', Vlerick School of Management
2000	Interpersonal Effectiveness Course European School of Management, Brugge (Be)
1988-1993	Biologie, specialisatie Ecotoxicologie Vrije Universiteit Amsterdam
1980-1988	Vooropleidingen: MAVO (Chr. Nat. MAVO Middenmeer), HAVO, VWO (beide RSG Wiringherlant, Wieringerwerf)

## **Huidige Nevenactiviteiten**

- 2009 – 2012      Voorzitter Medezeggenschapsraad Basisschool Om de Oost, Den Oever
- 1997 – 2012      oprichter en bestuurslid (huidige functie voorzitter) van Scouting Corvus Corone, Den Oever

*NB. Beide activiteiten onlangs gestopt vanwege verhuizing*

## **Hobby's**

- Patisserie (amateur patissier: brood en banket)

## Vakinhoudelijk CV

### KEY QUALIFICATIONS

Chris Karman has extensive experience in ecotoxicological hazard assessment and risk analysis. He was project manager of various multinational projects, in which risk assessment models for offshore E&P chemicals were developed in co-operation with North Sea Authorities, Offshore Industry and Chemical Suppliers (CHARM, DREAM, ERMS). Chris Karman is an international authority on risk assessment and model development, and is a regularly invited speaker and chairman on international symposia. His skills include software development and (probabilistic) statistical methods (e.g., Monte Carlo analysis and multivariate analyses). He is a member of the Dutch statistical working group, that addresses practical statistical issues related to legislation and notification of chemicals. Furthermore, Chris Karman is advisor of the Dutch E&P industry and governmental authorities, often in relation to the national and international legislative framework. In this role, he authored, a.o., the OSPAR Guidelines for SubSeabed CO<sub>2</sub> Storage. Karman plays a key role in the integrated effect assessments for OSPAR and the EU Marine Strategy Framework Directive. He has been head of the department for Ecological Risk Studies (marine and fresh water) of TNO from 2002 until 2005. His current position is acting head of department and manager business development with a market focus for the institute on the maritime industry, chemicals industry and non-ferrous metal industry. After a merge of the department in 2006 with two marine institutes; the institute is now called IMARES, Institute for Marine Resources and Ecosystem Studies.

### SELECTED PROF. EXPERIENCE

- Mr. Karman has executed and managed a number of project, including:
- Member of the Project Board for the organisation of the 2016 TCI Global Conference (TCI is the he global practitioners network for competitiveness, clusters and innovation) (2015, 2016).
  - Steering Committee Member of the Dutch Hydrological Model (NHI) (2013-2016).
  - Steering Committee Member of the Dutch Soil Registration (BRO: basisregistratie Ondergrond) (2014-2016)
  - Founding of the Amsterdam Institute for Advanced Metropolitan Solution, a joint initiative of Wageningen University and Research, Delft Technical University and Massachusetts Institute of Technology (2013).
  - Advisor on sustainability issues in the steeringgroup of the NML Innovation Council and the 'kerngroep TKI Maritiem') (2012)
  - Senior advisor for the development of a new instrument for produced water evaluation by the OSPAR countries (Risk Based Approach)(2011)
  - Senior advisor of a project for the EU-DG ENV on the evaluation of the impact of sector activities on the marine environment (IMPACT Chain), leading to guidelines for the implementation of the Marine Strategy Framework Directive (2009).
  - Facilitator of the OSPAR QSR Chapter 11 workshop (60+ international experts) for integrated assessment of the status of regional seas (2009)
  - Concept and method development for cumulative effects assessment (2007/2008): Dutch Government in an OSPAR setting
  - Leading London Convention and OSPAR workinggroups on Risk Assessment and Management of Sub-sea Storage of CO<sub>2</sub> in geological formations (2006/2007)
  - Modification of the LCA approach for essential metals; bringing ecotoxicology in LCA (2006): International Zinc Association
  - Organisation of several courses concerning environmental risk assessment and industrial environmental care (1996 - 2006)
  - Development of a mechanistic risk assessment model (DREAM) to estimate long term sublethal effects of mixtures of chemicals (1998-2006, Statoil, Elf, Agip, Norsk Hydro)
  - Several Environmental Impact Assessments of the exploration and production of oil and gas on the Dutch Continental Shelf (1998, 1999: various E&P companies)
  - Development of an LCA method for offshore discharges of produced water (1998: NOGEP, NL)

- Development of an extensive Environmental Risk Assessment model for a chemical plant in Canada (1998: NOVA Chemicals, Canada)
- Refinement of a response model used for (chemical) calamities at the North Sea (1998-2000: RWS-DNZ, NL)
- Environmental Impact Assessment of the exploration and production of gas on the Dutch and German Continental Shelf (1997-2006): all major Dutch oil and gas producers.
- Study the bioavailability of copper in the marine environment and its impact on risk assessment methods (1997: united anti-fouling coating producers in the US)
- Scientific organisation of the International Expert Meeting on Environmental Practices in Offshore Oil and Gas Activities (1997: RWS-DNZ, NL)
- Study of the applicability of risk assessment methods for essential elements (1997: united zinc industry of the Benelux)
- Extensive sensitivity and uncertainty analysis of RAM: a model for risk analysis in the marine environment (1996: RIKZ, NL)
- Development of a risk assessment model for fluids discharged from an offshore pipeline system (1996: BP, UK)
- Development of a model for risk analysis of produced water discharges, including exposure time (1996: NAM, NL)
- Development of the CHARM-model: International framework and model for Chemical Hazard Assessment and Risk Management of offshore E&P chemicals (1994-1997: North Sea Authorities, E&P industry, chemical suppliers)

SELECTION OF PEER REVIEWED  
SCIENTIFIC PUBLICATIONS

Tamis, J.E.; Vries, de P.; Jongbloed, R.H.; Lagerveld, S.; Jak, R.G.; Karman, C.C.; Wal, van der J.T.; Slijkerman, D.M.E.; Klok, T.C. (2016), Toward a harmonized approach for environmental assessment of human activities in the marine environment.  
Integr Environ Assess Manag, 1551-3793.

Tamis, J. E., Jongbloed, R. H., Karman, C. C., Koops, W. and Murk, A. J. (2012), Rational application of chemicals in response to oil spills may reduce environmental damage.  
Integr Environ Assess Manag, 8: 231-241

de Vries, P., Smit, M. G.D., van Dalen, J. A., De Laender, F. and Karman, C. C. (2010), Consequences of stressor-induced changes in species assemblage for biodiversity indicators.  
Environmental Toxicology and Chemistry, 29: 1868-1876

Smit M.G.D., Jak R.G., Rye H., Frost T.K.N., Singsaas I. and Karman C.C. (2008): Assessment of Environmental Risks from Toxic and Nontoxic Stressors; A Proposed Concept for a Risk-Based Management Tool for Offshore Drilling Discharges.  
Integr Environ Assess Manag 4, 2008

Foekema E. & C. Karman (2006): De bijdrage van bouwmetaal aan de totale zinkbelasting van het oppervlaktewater in Amsterdam. H2O 39(1):38-40.

Smit M.G.D., J.A. van Dalen & C.C. Karman. (2004): Linking the different worlds of environmental risk assessment and environmental effects monitoring.  
In: S.L. Armsworthy, P.J. Cranford & K. Lee (eds), Offshore oil and gas environmental effects monitoring. Approaches and technologies. Battelle Press, Columbus. pp. 25-53.

Smolders E., S.P. McGrath, E. Lombi, C.C. Karman, R. Bernhard, D. Cools, K. Van Den Brande, B. Van Os & N. Walrave (2003): Comparison of toxicity of zinc for soil microbial processes between laboratory-contaminated and polluted field soils.  
Environ. Toxicol. Chem. 22(11):2592-2598.

Karman C.C. (2002): Using time to event modeling to assess the ecological risk of produced water discharges.  
In: M. Crane, M.C. Newman, P.F. Chapman & J. Fenlon (eds.), Risk assessment with time to event models. Lewis publishers, Boca Raton. pp. 89-102.

Smit M.G.D., A.J. Hendriks, J.H.M. Schobben, C.C. Karman & H.P.M. Schobben (2001): The variation in slope of concentration-effect relationships.  
Ecotoxicol. Environ. Saf. 48:43-50.

Stevens C., D.E. Powell, P. Mäkelä & C. Karman (2001): Fate and effects of polydimethylsiloxane (PDMS) in marine environments.  
Mar. Pollut. Bull. 42(7):536-543.

Karman C.C. (2000): The role of time in environmental risk assessment.  
Spill Sci. Technol. Bull. 6(2):159-164.

Scholten M.C.Th., C.C. Karman & S. Huwer (2000): Ecotoxicological risk assessment related to chemicals and pollutants in off-shore oil production.  
Toxicol. Lett. 112/113:283-288.

Van Dokkum H.P. & C.C. Karman (1999): Data requirements of biocides: a risk assessment point-of-view.  
Biocides Today 14-15.

Karman C.C. & H.G. Reerink (1998): Dynamic assessment of the ecological risk of the discharge of produced water from oil and gas producing platforms.  
J. Hazard. Mat. 61:43-51.

Karman C.C. & H.G. Reerink (1997): Dynamic assessment of the ecological risk of the discharge of produced water from oil and gas producing platforms.  
In: Proceedings Offshore Mediterranean Conference, Ravenna, March 19-21, 1997. pp. 371-377.

Karman C.C., H.P.M. Schobben & M.C.Th. Scholten (1997): CHARM: Hazard assessment and risk management of chemicals used in the offshore production of oil and gas.  
In: Proceedings SPE European Environmental Conference, Aberdeen. SPE 37830.

Karman C.C., S. Johnsen, H.P.M. Schobben & M.C.Th. Scholten (1996): Ecotoxicological risk of produced water discharged from oil production platforms in the Statfjord and Gullfaks field.  
In: M. Reed & S. Johnsen (eds.), Produced Water 2. Environmental issues and mitigation technologies. Environmental Science Research Vol. 52, Plenum Press, New York. pp. 127-134.

Schobben H.P.M., E.A. Vik, G.G. Hutjes, C.C. Karman & G.D. Ofjord (1996): An introduction to the CHARM model.  
In: M. Reed & S. Johnsen (eds.), Produced Water 2. Environmental issues and mitigation technologies. Environmental Science Research Vol. 52, Plenum Press, New York. pp. 295-301.