



## **SHORT CV Hanneke Verweij**

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**Dr Hanneke Verweij** is a recognized international expert in basin and fluid flow system analysis at TNO Applied Geosciences, the Netherlands. She holds a Msc degree in hydrogeology and a PhD degree in earth sciences from the Vrije Universiteit Amsterdam. She has 35 years of experience in applied and strategic research of pressure and fluid flow systems on different time and spatial scales. After performing groundwater resource assessments in Colombia, and compiling an award winning standard reference book on the analysis and evaluation of pumping test data for groundwater investigations, she started – as one of the first scientists in the world – research on the application of hydrogeological knowledge and methodologies for understanding petroleum migration and trapping systems in 1986. The start of her research on this topic was inspired by Tóth's hydraulic theory of petroleum migration published in 1980. Since 1986 she has initiated and has been involved in national and international research and development projects concerning the analysis, modelling and interpretation of pressure and groundwater flow systems in developing sedimentary basins, and the significance of these systems for a broad spectrum of topics related to present and future responsible use of the subsurface (petroleum resource assessments, geothermal, radio-active waste disposal). She combined her work at TNO with a position as assistant professor Hydrogeology at the Faculty of Earth Sciences, Utrecht University, the Netherlands from 1997-2001 and with a position as visiting professor Basin and Geo-energy potential at the Politecnico di Torino, Italy from 2009-2015.

Hanneke has been a member of different expert committees for the Netherlands Organization of Scientific Research –Earth and Life Sciences for reviewing research proposals since 2005, and expert reviewer for different international research organizations. She is member of the editorial board of 2 international scientific journals, is guest editor of 6 special issues of international journals. She has published 3 books and more than 40 peer-reviewed papers in international journals and conference proceedings. In addition she initiated and organized several international conferences on basin hydrodynamics and related topics.

#### Publications books:

- Verweij, J.M. 2003. Fluid flow systems analysis on geological timescales in onshore and offshore Netherlands; with special reference to the Broad Fourteens Basin. Netherlands Institute of Applied Geoscience TNO-*National Geological Survey*, Utrecht, the Netherlands. PhD-thesis. ISBN 90-5986-035-7, 278 p.
- Verweij, J.M., 1993. Hydrocarbon migration systems analysis. *Developments in Petroleum Science*, 35. Elsevier Science Publishers BV, Amsterdam. ISBN 0-444-89103-X.
- Kruseman, G.P., De Ridder, N.A. and J.M. Verweij, 1990. Analysis and evaluation of pumping test data. Second edition (completely revised). International Institute for Land Reclamation and Improvement, Wageningen, The Netherlands, Publication 47. ISBN 90 70754 207. (*In 1992, the 'Excellence in Science and Engineering Award' of the American 'Association of Groundwater Scientists and Engineers' has been presented in recognition of the second edition of the book Analysis and evaluation of pumping test data, compiled by Hanneke Verweij*)

#### Publications Special issues scientific journals:

- Verweij, J.M., Madl-Szonyi, J., Underschultz, J., Wendebourg, J. (guest editors) 2016. Basin Hydrodynamic systems & Resources. *VSI Marine and Petroleum Geology*
- Verweij, J.M. and Schokker, J. (guest editors) 2012. Special Issue on Geoscientific Research in the Wadden Sea region. *Netherlands Journal of Geosciences/Geologie en Mijnbouw*, Volume 91 (3), 289-399.
- Verweij, Hanneke, Marek Kacwicz, Johannes Wendebourg, Gareth Yardley, Sierd Cloetingh, Stephan Düppenbecker (guest editors) 2009. Thematic set on Basin Modeling Perspectives. *Marine and Petroleum Geology*, Volume 26 (4), 427-614.
- Verweij, J.M., Doust, H., Peach, C.J., Spiers, C.J. and Swennen, R.A.J. 2003 (guest editors). Proceedings of Geofluids IV Fourth International Conference on Fluid evolution, Migration and Interaction in Sedimentary Basins and Orogenic belts, Utrecht, 12-14 May 2003. *Journal of Geochemical Exploration*, Volumes 78-79, 704 p.
- Verweij, J.M. (guest editor) 2003. Special issue on Geofluids in the Netherlands. *Netherlands Journal of Geosciences/Geologie en Mijnbouw* 82 (1), 1-112.
- Al-Aasm, I.S., Scotchman, I. and Verweij, H. (guest editors) 2002. Thematic set on Origins, Characterization and Significance of Fluids in sedimentary basins. *Marine and Petroleum Geology*, Volume 19 (3), 207-388.

#### Convener/chair scientific organizing committees of international and national conferences

- Co-convener and Chair Scientific Organizing Committee EAGE/TNO workshop on Basin Hydrodynamic Systems in Relation to their Contained Resources, Utrecht, the Netherlands, 6-8 May 2015.
- Convener and Chair Organizing Committee GeofluidsIV Fourth International Conference on Fluid evolution, Migration and Interaction in Sedimentary Basins and Orogenic Belts, Utrecht, the Netherlands 12-16 May 2003; and member of the scientific organizing committees of GeofluidsV (Windsor, Canada, 2006), GeofluidsVI (Adelaide, Australia, 2009), GeofluidsVII (Paris, France, 2012), and Geofluids VII (Wuhan, China, 2016)
- Member Scientific Organizing Committee EAGE Workshop on Basin & Petroleum Systems Modeling, Dubai, 19-22 October 2014.
- Co-Convener and Chair Scientific and Local Organizing Committees AAPG Hedberg Research Conference on Basin modeling perspectives: Innovative developments and novel applications, May 6-9, 2007, The Hague, the Netherlands
- Convener and Chair Organizing Committee GAIA-NIMF Symposium 'Natuurlijke dynamiek en duurzame veiligheid in de delta. Wie houdt Nederland veilig in een veranderend klimaat' (11 April 2007; Naturalis, Leiden, the Netherlands)