

**Personal information**

Name: Drs. P.C. Stolk (Petra)  
Date of birth: 6 August 1976

**Work experience**

2005 - present PhD student, Earth System Science & Climate Change, Wageningen University. Simulation of daily N<sub>2</sub>O and CH<sub>4</sub> emissions from natural and agricultural peatland. Supervisors: prof. dr. P. Kabat, Earth System Sciences Group- Wageningen University; dr. ir. C.M.J. Jacobs, Alterra; ir. E.J. Moors, Alterra.  
2000 - 2005 Geohydrologist, Wareco Amsterdam BV. Urban groundwater management: Groundwater level monitoring, groundwater modeling, design of drainage-/infiltrationsystems. ICT-assistant.

**Qualifications**

2000 MSc 'with pleasure' geographical hydrology, VU University Amsterdam. Master thesis: Analysis of groundwater temperatures in the Netherlands (20-300 m below the surface). Short research: The energy balance of a palmforest in Puerto Rico.  
1994 Videregående Skole (2<sup>nd</sup> grade), Askøy, Norway  
1993 Gymnasium, Utrecht

**Relevant courses**

2007 Techniques for writing and presenting scientific papers, SENSE research school, Wageningen.  
2007 Summerschool Understanding global environmental change: processes, compartments and interactions, Nunspeet.  
2006 The art of the modeling, SENSE research school, Wageningen.  
2006 Summerschool on Eddy Covariance - CarboEurope IP, Namur, Belgium  
2006 Boundary layer processes - Wageningen University  
2005 Summercourse Climate and the Hydrological Cycle, Utrecht.

**Other activities**

2010 co-convenor session EGU General Assembly  
2006 - 2007 development SENSE e-network  
1999 - 2001 website development GAIA, network for women in earth sciences  
1996 - 1999 board member and committee member GeoVUsie, earth sciences students society VU University Amsterdam  
1992 - present various other activities: secretary apartment-owner association, kayak instructor, ski teacher, camp staff Úlfljótsvatn Iceland, secretary VU student choir, seascouts leader.

**Publications***In peer reviewed journals:*

Stolk, P.C., R.F.A. Hendriks, C.M.J. Jacobs, J. Duyzer, E.J. Moors, J.W. Van Groenigen, P.S. Kroon, A.P. Schier-Uijl, E.M. Veenendaal, and P. Kabat, accepted. Simulation of daily N<sub>2</sub>O emissions from managed peat soils, Vadose Zone Journal.

*Other:*

Hendriks, R.F.A., P. Groenendijk, P.C. Stolk, J.J.H. Van den Akker, and L.V. Renaud, in prep. Modelling of greenhouse gas emissions with ANIMO 4.0. Report 2054, Alterra, Wageningen, The Netherlands.  
Kroon, P.S., A.P. Schier-Uijl, P.C. Stolk, F.K. van Evert, P.J. Kuikman, A.H. Hensen, and E.M. Veenendaal, 2010. Beïnvloeden van landgebonden broeikasgasemissies. Naar een klimaat neutrale(re) inrichting van het landelijk gebied. Landschap 27(2):99-109

- Stolk, P.C., C.M.J. Jacobs, E.J. Moors, A. Hensen, G.L. Velthof, and P. Kabat, 2009. Significant non-linearity in nitrous oxide chamber data and its effect on calculated annual emissions. *Biogeosciences Discussions*, 6:115-141.
- Stolk, P.C., R.F.A. Hendriks, C.M.J. Jacobs, and E.J. Moors, 2009. Simulation of nitrous oxide peak emissions from a Dutch peat soil with SWAP-ANIMO. Conference paper 5<sup>th</sup> International symposium on Non-CO<sub>2</sub> greenhouse Gases, 30 June - 3 July, 2009, Wageningen, The Netherlands.
- Stolk, P.C. and J.H. Bouma, 2005. Monitoring volgt effecten drainage-infiltratiesysteem Wippolder. *Land + Water*, 6/7:14-15.
- Buik N., P.C. Stolk, and G. Willemsen, 2004. Analyse van temperatuurmetingen in de Nederlandse ondergrond. *Stromingen* 10(4):13-22.

**Oral presentations**

- Simulations of daily nitrous oxide (N<sub>2</sub>O) emissions from managed peat soils. 10<sup>th</sup> Nederlands Aardwetenschappelijk Congres (Dutch Earth Sciences Congress), 22-23 April, 2010, Veldhoven, The Netherlands.
- Simulation of daily nitrous oxide (N<sub>2</sub>O) emissions from managed peat soils. SENSE Symposium 'Land Water Atmosphere Internactions, 9 Mar. 2010, Wageningen, The Netherlands.
- Simulation of nitrous oxide (N<sub>2</sub>O) peak emissions from peatland. European Geosciences Unions General Assembly, 19-24 April 2009, Vienna, Austria.

**Poster presentations**

- Simulation of nitrous oxide peak emissions from a Dutch peat soil with SWAP-ANIMO. European Geosciences Union General Assembly, 3-8 May 2010, Vienna, Austria.
- Simulation of nitrous oxide peak emissions from a Dutch peat soil, Nitro Europe IP Open Science Conference, 3-4 Feb. 2010, Solothurn, Swiss.
- Simulation of nitrous oxide peak emissions from a Dutch peat soil, 5<sup>th</sup> International symposium on Non-CO<sub>2</sub> greenhouse Gases, 30 June - 3 July, 2009, Wageningen, The Netherlands.
- Can we simulate the vertical distribution of N<sub>2</sub>O sources and sinks in the soil? Nitro Europe Open Science Conference, 20-21 Feb., 2008, Ghent, Belgium
- Simulation of daily nitrous oxide(N<sub>2</sub>O) fluxes with SWAP-ANIMO, Towards a process-based Description of trace gas emissions in land surface models: Workshop Marie Curie-iLEAPS, 16-19 Oct. 2007, Helsingborg, Sweden.
- Temporal variability of N<sub>2</sub>O fluxes on the plot scale, International Conference *Climate changes Spatial Planning*, 12-13 Sep 2007, The Hague, The Netherlands.

**Skills**

- Programming: Fortran, Matlab, R
- Foreign languages: Fluency in English, Norwegian; basics in German, Spanish, French, Icelandic.

**Hobbies & interests**

- seakayaking, skiing, hiking; high latitude regions