



Name	van Griensven, Ann B. K.
Year of birth	1974
Nationality	Belgium
Present position	UNESCO-IHE Institute for Water Education Associate professor of Ecohydrology and Global Change
Years with firm	since 2005

EDUCATION

2002	PhD degree in Applied Sciences, Free University of Brussels, Belgium – greatest distinction
1997	MSc degree in Bio-Engineering, Ghent University, Belgium Specialization in Environmental Technology – distinction
1992	Secondary school, Latin-Mathematics, O.L.Vrouwpresentatie, Sint-Niklaas, Belgium – distinction

EMPLOYMENT RECORD

2011	Associate Professor (0.4 FTE), Core of Hydrology and Water Resources, UNESCO-IHE institute for Water Educutions, Delft Netherlands Professor(0.6 FTE), Department of Hydrology and Hydraulic Engineering, Vrije Universiteit Brussel, Belgium
2005 - 2011	Lecturer/Senior Lecturer/Associate professor, core of Hydroinformatics UNESCO-IHE Institute for Water Education, Delft, The Netherlands Ghent University
2006-2008	Professor of Modelling and Simulating of Bio-systems at BIOMATH research group, Ghent University, Belgium (0.2 FTE) Ghent University, Fac. Bioscience Engineering, BIOMATH department, Belgium.
2004-2005	post doctoral researcher within the European Harmoni-CA project
2003	University of California Riverside, Department of Environmental Sciences- post doctoral researcher
1998-2002	Scientific collaborator at the Free University Brussels, Faculty Applied Sciences, Hydrology department, Belgium - PhD research and projects - assisting in IUPWARE program: course "surface hydrology" and "hydrologic modelling (SWAT workshop)"
1997-1998	Scientific collaborator at Ghent University, Faculty Agricultural and Applied Biological Sciences, University Gent, Belgium - Assisting in lecturing "Informatics" - Office of internal co-operations in education

KEY QUALIFICATIONS

Ann van Griensven, bio-engineer, obtained her PhD at the Free University of Brussels on integrated water quantity and quality modelling of river basins. For her PhD research, she started her activities in developing and applying the ecohydrological modelling software: Soil and Water Assessment Tool (SWAT). Afterwards, she worked at the University of California, Riverside, and at the Ghent University. Ann van Griensven is currently Associate Professor of ecohydrology and global change in the core of hydrology and water resources at the UNESCO-IHE Institute for Water Education and professor in the



department of hydrology and hydraulic engineering of the Vrije Universiteit Brussel. She is participating in several EU funded projects on wetland and catchment management in order to reduce pollution. Her research focuses on the understanding and modelling the ecohydrological processes in the wetland riparian zones and the incorporation of these processes in catchment models. She is a recognized expert in open source developments of hydrological modelling tools (mainly SWAT) and their integration in river basin management.

KEYWORDS

Ecohydrology, global change, hydrological model development, water quality modelling, river basin modelling, uncertainty analysis, wetlands and riparian zones, model integration



EXPERIENCE RECORD

EXPERIENCE in CONSULTANCY, PROJECT ASSIGNMENTS and EDUCATION

TEACHING

- **Several subjects** (River basin management; water quality modelling of receiving water; Environmental processes, Soil and Water assessment) for the Masters of Science in Water Science and Engineering, option Hydroinformatics, 2006 and further, UNESCO-IHE, Delft, the Netherlands - *In English*.
- **Summercourse "Hydroinformatics for River Basin Management: SWAT**, yearly- *In English*.
- **GIS and Modelling; SWAT**, 2 weeks (November), yearly- *In English*.
- **Environmental Systems Modeling**, 3 week short course/module, yearly- *In English*.
- **Environment and Global Change: Uncertainty and Risk Assessment**, 2 week short course, yearly- *In English*.

DAILY

GUIDANCE

OF PHD

STUDENTS

- **Mijail Arias Hidalgo**, 2012, PhD Thesis, UNESCO-IHE, Delft, the Netherlands, "Development of an information framework for integrating wetland and catchment management", co-promoter.
- **Girma Yimer**, 2013, PhD Thesis, UNESCO-IHE, Delft, the Netherlands, Modelling Groundwater Flow and Reactive Contaminant Transport of Chlorinated Solvents in the riparian zone, co-promoter.
- **Linh Hoang**, 2013, PhD Thesis, UNESCO-IHE, Delft, the Netherlands, The effectiveness of wetlands to remove pollution at river basin scale, 2013, co-promoter.
- **Gabriela Alvarez**, 2013, PhD Thesis, UNESCO-IHE, Delft, the Netherlands, Ecological Modelling in Tropical Rivers and Wetlands, co-promoter.
- **Fidelis Kilonzo**, 2013, PhD Thesis, UNESCO-IHE, Delft, the Netherlands, Assessing impacts of climate change on hydrology and water resources, supervisor.
- **Patrick Khisa**, 2013, PhD Thesis, UNESCO-IHE, Delft, the Netherlands, Ecohydrological functioning of Nyando Wetland in a changing catchment and climate context, co-supervisor.
- **Shenglan Lu**, 2013, PhD Thesis, Aarhus University, Denmark, Drainage basin modelling on phosphorus transport through the upland to the receiving water, co-promoter.
- **Seleshi Yalew**, 2013, PhD Thesis, UNESCO-IHE, Delft, the Netherlands, Integrating land-use and river basin modeling, co-promoter
- **Nagendra Kanastha**, 2013, PhD Thesis, UNESCO-IHE, Delft, the Netherlands, propagation of uncertainty in models using web-services, co-promoter.
- **Zhu Xuan**, 2012, PhD Thesis, UNESCO-IHE, Delft, the Netherlands, Novel technologies in interfaces of DSS systems in the water domain, co-supervisor.
- **Yared Ashenafi Bayissa**, 2014, Drought assessment and forecasting for Upper Blue Nile Basin by assimilating remotely sensed data into hydrological model, co-supervisor.

Also involved in:

- **Santatriniaina Denise Rasolomanana**, ongoing, PhD Thesis



- Université Laval, Quebec City, Canada
 - **Kittiwet Khantiyawichai**, ongoing, PhD Thesis, UNESCO-IHE
 - **David Matamoros**, 2004. PhD Thesis, Universiteit Gent, Belgium.
 - **Holvoet Katrijn**, 2007. PhD Thesis, Universiteit Gent, Belgium.
 - **Hong Li**, 2009, PhD Thesis, UNESCO-IHE
- DAILY GUIDANCE TO MASTER OF SCIENCE THESIS**
- (co-)supervision of > 30 MSc thesis at Free University Brussels, Ghent University, Université Laval, University of California – Riverside, UNESCO-IHE, Erasmus Mundus programme in Hydroinformatics, Erasmus Mundus programme in Ecohydrology.
- PROJECTS**
- EU project CHESS: Climate, Hydrochemistry and Economics of Surface-water Systems (Funded by EU, Vrije Universiteit Brussel, 1998-2000), PhD researcher
 - Development of a hydroinformatical system for integrated water management of rivers (Funded by the Flemish Fund for Research) Vrije Universiteit Brussel, 1998-2000), PhD researcher
 - Evaluation of the water quality of the Senne river based on an integrated modelling approach (Funded by Research for Brussels, Vrije Universiteit Brussel, 2001-2002), PhD researcher
 - Development of an Uncertainty Framework for the Soil Water Assessment Tool (SWAT) (Funded by NSF and SWAT, University of California, Riverside, 2003), post-doctoral researcher
 - EU Harmoni-CA project (Funded by the EU, Universiteit Gent, 2004-2007): work package 2: development of a “TOOLBOX” to provide easy and guided access to approved (benchmarked) ICT-tools necessary for the development of River Basin Management Plans.,post-doctoral researcher/professor, project-co-ordinator for University of Ghent and WP6-leader.
 - Delft Cluster project “KRW Tools”, 2006-2009, UNESCO-IHE budget = 257000 € out of 3 million euros total project budget, project leader for U-IHE.
 - EU-FP7 project “WETwin”, Enhancing the role of wetlands in integrated water resources management for twinned river basins in EU, Africa and South-America in support of EU Water Initiatives, (2008-2011), 324000 € for U-IHE out of ~3 million € total project budget, project leader for U-IHE and WP6 leader.
 - EU-FP7 project “AQUAREHAB”, ‘Development of rehabilitation



- technologies for multipressured degraded waters and the integration of their impact in river basin management', (2009-2013), 423000 € out of ~7 million total project budget, main contributor for UNESCO-IHE, project leader for U-IHE and WP6 leader.
- EU-FP7 project "EnviroGRIDS", Gridded Earth Observation System for Assessing and Predicting Black Sea Basin Sustainability and Vulnerability , (2009-2013), 492000 € out of ~6.2 million total project budget, initiator and main contributor for UNESCO-IHE, initiator and contributor for U-IHE.
 - ECOLIVE project (Internal Research Fund project), The ecology of the livelihoods in East African wetlands: wetland conservation and utilization in the context of local and global change, (2009-2013), 600000 € total project budget, contributor.
 - ProACC project (Internal Research Fund project), Post-Doctoral Research Programme on Adaptation to Climate Change (PRoACC) with Special Focus on the Mekong River Basin (2010-2011), contributor to 2 post-doctorial studies.
 - ACCION project (Internal Research Fund), Adaptation to Climate Change Impacts on the Nile River Basin (2009-2011), 250,000 euro's, initiator + project co-leader.
 - EU-FP7 project "AFROMAISON", Adaptive and integrated tools and strategies on natural resources management (2011-2014), budget of UNESCO-IHE ~300,000 euro's, project proposal leader for UNESCO-IHE, initiator for UNESCO-IHE and contributor.
 - EU-FP7 project "MyWater", Merging Hydrologic models and EO data for reliable information on Water (2011-2013), contributor.



PUBLICATIONS

CHAPTERS IN BOOKS

1. Ndomba, P.M. and van Griensven, A. (2011). *Suitability of SWAT model in sediment yields modeling in the Eastern Africa*. Chapter 13: Advances in Data, Methods, Models and Their Applications in Geosciences, edited by Dongmei Chen. ISBN 978-953-307-737-6, INTECH open access publisher sourced at www.intechweb.org.
2. Madsen, H., van Griensven, A. and Lajer Højberg, A. Model calibration and validation in model-based water management, (2010) IWA Publishing. Modelling Aspects of Water Framework Directive Implementation Volume 1. by Peter A. Vanrolleghem. ISBN: 9781843392231. Published by IWA Publishing, London, UK.
3. van Griensven, A., Di Luzio, M., Vandenberghe, V., Goethals, P., Breuer, L., Meixner, T., Arnold, J. and Srinivasan, R., (2006). Environmental and Ecological Hydroinformatics to support Water Framework Directive for River Basin Management (in Europe), In "Soil and Water Assessment Tool (SWAT) Global Applications" World Association of Soil and Water Conservation, Special Publication No. 4.
4. van Griensven, A., Vandenberghe, V. (2006). Monitoring in rural areas, in "Wastewater Quality Monitoring and Treatment", ed. Ph. Quevauviller, O. Thomas and A. Van der Beken, Water Quality Measurements Series, John Wiley & Sons Ltd., London, UK.
5. Vandenberghe, V., van Griensven, A. and Vanrolleghem, P.A. (2006). Monitoring for water quality modelling, in "Wastewater Quality Monitoring and Treatment", ed. Ph. Quevauviller, O. Thomas and A. Van der Beken, Water Quality Measurements Series, John Wiley & Sons Ltd., London, UK.
6. Fronteau, C., van Griensven, A. and Bauwens W. (1999). Construction and calibration of an integrated urban drainage model. In "Transaction on the Ecology and the Environment vol. 26: Diffuse pollution V" ed. Brebbia, C. A., WIT press, UK.

INTERNATIONAL JOURNALS WITH PEER REVIEW

Manuscripts

0. van Griensven A., Yalew S., Ndomba P., Kilonzo F., Gassman, Ph. Critical review of the application of SWAT in the Nile basin countries. Hydrology and Earth System Sciences, manuscript.
0. Hoang, L., van Griensven, A., In-stream water quality processes in SWAT with different routing methods and adapted water quality modules, manuscript.
0. Muiruri J. T., Wenninger, J.W., van Griensven, A. Uhlenbrook, S., Khisa, P.. Hydrological modeling of the Nyando catchment in Kenya and the impacts of climate change and land use change on the water balance. Manuscript.

Manuscripts in review

0. Avella, C., van Griensven A., Di Baldassarre, G., 2011. Cascading model uncertainty from runoff generation through sewer modelling to river level predictions: the case study of the Senne river basin, Environmental Modelling and Software, submitted.
0. Yimer E. G., Hamonts, K., van Griensven A., Jonoski A. Winnie Dejonghe, W. and Mynett, A. Numerical simulation of groundwater-surface exchanges using temperature in a heavily



- modified river, Hydrological Processes, submitted
0. Yimer E. G., Jonoski, A. van Griensven, A. Di Baldassarre G. Application of downscaling techniques to evaluate climate impacts: application to the Upper Beles River Basin, Upper Blue Nile, Ethiopia. Hydrology Research, submitted.
 0. Yalaw, S.G., van Griensven, A. Kokozkiewicz L., Ray N., Betrie G. D.. Parallel computing of large scale SWAT models, Environmental Modelling and Software, submitted.
 0. Abdelhamid, R., van Griensven, A., Popescu, I. Ndomba, P., Beevers L. (2011). Comparison of Sediment Transport Computations Using Hydrodynamic versus Hydrologic Models in the Simiyu River in Tanzania, Physics and Chemistry of the Earth, submitted.
 0. Oker, T., Xuan, Y. van Griensven, A. (2011), Effects of climate change on the spatial and temporal transformations of wetlands: Case study on Nabajuzzi wetlands, Physics and Chemistry of the Earth, submitted.
 0. Kigobe, M., A., van Griensven G. Di Baldassarre. Assessing hydrological response to change in climate: Statistical downscaling and hydrological modelling within the upper Nile, Physics and Chemistry of the Earth, submitted.
 0. Hoang L, van Griensven A., van der Keur, P., Troldborg, L., Nilsson, B., and Mynett A., Comparison and evaluation of model structures for the simulation of pollution fluxes in a tile-drained river basin, Journal of Environmental Quality, submitted
 0. Lu, S., Kayastha, N., van Griensven, A., Estrup Andersen, H. Multi-objective calibration for comparing channel sediment routing models in SWAT, Journal of Environmental Quality, submitted
 0. Elshamy, M., Di Baldassarre, G., van Griensven, A. (2011). Characterizing climate model uncertainty using an informal Bayesian GLUE framework: An Application to the River Nile, Journal of Hydrologic Engineering, submitted
 0. Minaya V., Batdelger O., van Griensven, A., Dastgheib, A., Arias Hidalgo, M., Alvarez, M.G., Mynett, A.E. Quantification of the nutrient regulation functions in a tropical riverine wetland system: A case study of the Abras de Mantequilla wetland, Ecuador, Environmental Science and Policy, submitted.
 0. Arias-Hidalgo, M., Villa-Cox, G., Miñoc, S., Solórzano, G., Villa-Cox, R., van Griensven, A., Debels, P., Mynett, A. E. A multi-criteria analysis for wetland management in a river basin context: the “Abras de Mantequilla” case study in the Guayas River Basin, Ecuador, Environmental Science and Policy, submitted.
 0. Alvarez, G., van Griensven, A., Torres, A., Arias Hidalgo, M, Mynett, A. E. Relationships between aquatic biotic communities and water quality conditions in a tropical river wetland system, Environmental Science and Policy, submitted.

2011

1. Betrie G. D., van Griensven, A. Mohamed, Y. A., Hummel, S., Mynett A. E. (2011). Linking SWAT and SOBEK using Open Modeling Interface (OpenMI) for sediment transport simulation in the Blue Nile river basin, Transactions of the ASABE 54 (5), pp. 1749-1757.
2. Kuntiyawichai, K., Schultz, B., Uhlenbrook, S., Suryadi, F.X., van Griensven, A. (2011). Comparison of flood management options for the Yang River Basin, Thailand. Irrigation and Drainage, 60 (4), pp. 526-543.
3. Betrie, G.D., Mohamed, Y.A., Van Griensven, A., Srinivasan, R. (2011). Sediment management modelling in the Blue Nile Basin using SWAT model, Hydrology and Earth System Sciences 15 (3), pp. 807-818.
4. Di Baldassarre, G., Elshamy M, van Griensven A., Soliman E., Kigobe M., Ndomba P., Mutemi J., Mutua F., Moges S., Xuan Y., Solomatine D., Uhlenbrook S. (2011) Future hydrology and



climate in the River Nile basin: A review. *Hydrological Sciences Journal* 56 (2), pp. 199-211.

2010

5. Rode, M., G. Arhonditsis, D. Balin, T. Kebede, V. Krysanova, A. van Griensven and S. E. A. T. M. van der Zee, (2010) New challenges in integrated water quality modeling, *Hydrol. Process.* 24, 3447–3461.
6. Claeys P., A. van Griensven, L. Benedetti, B. De Baets and P. A. Vanrolleghem (2010). On numerical solver selection and related uncertainty terminology, *Journal of Hydroinformatics*, 12(3).
7. Betrie, G. D., Mohamed, Y. A., van Griensven, A., Srinivasan, R. and Mynett, A. (2010). Sediment management modelling in Blue Nile Basin using SWAT model, *Hydrol. Earth Syst. Sci. Discuss.*, 7, 5497–5524.

2009

8. Ebrahim, G. Y., Jonoski, A. and van Griensven, A., (2009). Hydrological Response of a Catchment to Climate Change and Comparison of downscaling methods in the Upper Beles River Basin, Upper Blue Nile, Ethiopia, *Nile Water Science & Engineering Magazine* nr 2.

2008

9. Lévesque, E., Anctil, F., van Griensven, A., Beauchampa, N. (2008). Evaluation of SWAT model's streamflow simulation for two small watersheds under snowmelt and rainfall, *Hydrological Sciences Journal*, 53(5), 961-976.
10. Lévesque, E., Lamontagne, L., van Griensven, A., Vanrolleghem P.A., Anctil, F.. (2008). Adaptions des données physiographiques au modèle de qualité de l'eau SWAT. *Revue du Génie et de la Science de l'Environnement*, 7, 453-466.
11. Gevaert, V., Holvoet, K., van Griensven, A., Seuntjens, P., Vanrolleghem, P. (2008). Pesticide modelling for management using SWAT: recent developments and recommendations, *Hydrological Sciences Journal*, 53(5), 1076-1069.
12. van Griensven, A, and Meixner, T., Grunwald, S., Srinivasan, R. (2008). Fit-for-purpose uncertainty versus calibration uncertainty in model-based decision making, *Hydrological Sciences Journal*, 53(5), 1090-1103.
13. Green, C., van Griensven, A. (2008). Autocalibration using SWAT2005 in Small-scale Watersheds, *Environmental Modelling & Software*, 23(4), 422-434.
14. Holvoet, K., van Griensven, A., Seuntjens, P. and Vanrolleghem, P. A. (2008). Modelling direct losses in a small river catchment in Belgium with SWAT. *Environmental Modelling & Software*, 23, 72-81.

2007

15. van Griensven, A., Fohrer, N. and McCulloch, C. (2007) Editorial for the Special issue of the *Journal of Water Resources Management on Integrating Methods for Water Resources Management*, 20(12).
16. Holvoet, K., Gevaert, V., van Griensven, A., Seuntjens, P. and Vanrolleghem, P. A. (2007). Modelling the effectiveness of agricultural measures to reduce the amount of pesticides entering surface waters, *Journal Water Resources Management*, December 2007, 20(12), 2027-2035.
17. van Griensven, A, and Meixner, T. (2007). A global and efficient multi-objective auto-calibration and uncertainty estimation method for water quality catchment models. *J. Hydroinformatics*, 09.4, 277-291 (doi:10.2166/hydro.2007.104).

**2006**

18. Vanrolleghem, P.A., Sin, G., Van Hulle, S. W. H., De Pauw, D. J. W., van Griensven, A. Reply to: Comment on "A critical comparison of systematic calibration protocols for activated sludge models: A SWOT analysis" *Water Research* (39) (2006) 2460-2474 by Denny Parker and Henryk Melcer. *Water Res.* 2006 Jul 27; : 16876225.
19. van Griensven, A., Di Luzio, M., Vandenberghe, V., Goethals, P., Breuer, L., Meixner, T., Arnold, J. and Srinivasan, R., (2006). Environmental and Ecological Hydroinformatics to support Water Framework Directive for River Basin Management (in Europe), *J. Hydroinformatics* (Special issue on Environmental Hydroinformatics), 8(4), 239-252.
20. Vandenberghe V., van Griensven A., Bauwens. W. and Vanrolleghem P. (2006). Effect the selection of different river water quality model concepts used for river basin management decisions, *Water Sci. Technol.*, 53(10), 277–284.
21. van Griensven A. and Vanrolleghem P. (2006). The CatchMod Toolbox: Easy and guided access to ICT tools for Water Framework Directive implementation. *Water Sci. Technol.*, 53(10), 285–292.
22. van Griensven A., Meixner, T., Grunwald S., Bishop, T., Di Luzio, M. and Srinivasan, R. (2006). A global sensitivity analysis method for the parameters of multi-variable watershed models, *J. Hydrol.*, 324(1-4), 10-23.
23. van Griensven A. and Meixner T. (2006). Methods to quantify and identify the sources of uncertainty for river basin water quality models, *Water Sci. Technol.*, 53(1), 51-59.

2005

24. van Griensven A. and Bauwens W. (2005). Application and evaluation of ESWAT on the Dender basin and the Wister lake basin. *Hydrol. Processes*, 19(3), 827-838.
25. Sin, G., Van Hulle S. W.H., De Pauw, D., van Griensven A. and Vanrolleghem P. A. (2005). A critical comparison of systematic calibration protocols for activated sludge models: a SWOT analysis. *Wat. Res.*, 39, 2459-2474.
26. Vandenberghe, V. van Griensven A. and Bauwens W. (2005). Propagation of uncertainty in diffuse pollution into water quality predictions: application to the River Dender in Flanders, *Water Sci. Technol.*, 51(3-4), 347-354.
27. Vandenberghe, V., Goethals, P., Van Griensven, A., Meirlaen, J., De Pauw, N., Vanrolleghem, P.A. and Bauwens, W. (2005). Application of automated measurement stations for continuous water quality monitoring of the Dender river in Flanders, Belgium. *Environ. Monit. Assess.*, 108, 85-98.
28. Holvoet, K., van Griensven, A., Seuntjens, P. and Vanrolleghem, P.A. (2005) Sensitivity analysis for hydrology and pesticide supply towards the river in SWAT. *Physics and Chemistry of the Earth*, 30, 518-526.
29. Matamoros. D.E., van Griensven, A., van Biesen, L. and Vanrolleghem, P.A. (2005). Development of a geographical information system for pesticide assessment on an Ecuadorian watershed, *Water Sci. Technol.*, 52(12), 259–265.

2004

30. Holvoet, K., van Griensven, A., Seuntjens P. and Vanrolleghem, P.A. (2004). Hydrodynamic modelling with SWAT for predicting dynamic behaviour of pesticides. *Water and Environment Management Series, Young Scientist 2004*, 211-218.

2003



31. van Griensven, A. and Bauwens, W. (2003). Multi-objective auto-calibration for semi-distributed water quality models, *Water Resour. Res.*, 39(10), 1348 doi: 10.1029/2003WR002284.
32. van Griensven A. and Bauwens W. (2003). River water quality management for the Senne river basin (Belgium), *European Water*, May 2003.
33. van Griensven A. and Bauwens W. (2003). Concepts for river water quality processes for an integrated river basin modeling, *Water Sci. Technol.*, 48(3), 1-8.

2002

34. Vandenberghe, V. van Griensven A. and Bauwens W. (2002). Detection of the most optimal measuring points for water quality variables: application to the river water quality model of the river Dender in ESWAT, *Water Sci. Technol.*, 46(3), 1-7.
35. van Griensven A., Francos A. and Bauwens W. (2002). Sensitivity analysis and auto-calibration of an integral dynamic model for river water quality, *Water Sci. Technol.*, 45(9), 325–332.

2001

36. Vandenberghe V., van Griensven A. and Bauwens W. (2001). Sensitivity analysis and calibration of the parameters of ESWAT: Application to the river Dender. *Water Sci. Technol.*, 43(7), 295-301.
37. van Griensven A. and Bauwens W. (2001). Integral modelling of catchments. *Water Sci. Technol.*, 43(7), 321-328.

NATIONAL JOURNALS (BELGIUM)

2007

1. Holvoet K., Seuntjens P., Van Griensven A., De Schepper V., Gevaert V., Vanrolleghem P.A. (2007). Modelleren van het dynamisch gedrag van pesticiden in riviersystemen. @WEL, pp8..

2000

2. Goethals P.L.M., Wieme U., Bols J., Rousseau D., De Pauw N., Meirlaen J., Van Vooren L., Vanrolleghem P.A., Vandenberghe V., van Griensven A. and Bauwens W. (2000). Kwaliteitszorg van geautomatiseerde meetstations voor "on-line" kwaliteitsmonitoring van oppervlaktewater. @WEL, 6, pp.9.
3. Vandenberghe, V., van Griensven A., Bauwens W., Goethals P., De Pauw N., Meirlaen J., and Vanrolleghem P. (2000). Continue waterkwaliteitsmetingen op de Dender. @WEL, pp.9.

KEYNOTE/INVITED PRESENTATIONS AT CONFERENCES

1. van Griensven, A. Gaps and missing links in water quality and ecological modeling for river basin management. Keynote lecture at the International Environmental Modelling and Software Society (iEMSs), Modelling for Environment's Sake, Fifth Biennial Meeting, Ottawa, Canada, July 2010 (**invited conference keynote**).
2. van Griensven, A. 2011, How to deal with uncertainties in remotely linked model? General Assembly of the European Geophysical Union, Vienna, Austria, April 3-6, 2011 (**Solicited presentation**).
3. van Griensven A., Integrated environmental modelling for decision support in water management (**Invited session keynote**), 7th International Conference on Ecological Informatics (ISEI7) Ghent, Belgium, 13-16 December, 2010.



4. van Griensven A. (2008) Integrating river water quality processes in catchment modelling for ecological risk assessment, General Assembly of the European Geophysical Union, Vienna, Austria, April 13 – 18, 2008. **(Solicited presentation)**

PRESENTATIONS AT INTERNATIONAL CONFERENCES WITH PUBLICATIONS OF PAPERS IN PROCEEDINGS

1. Hoang, L., van Griensven, A., Mynett, A. Simulation of tile drainage in an agricultural catchment in Denmark, SWAT-SEA conference, Ho Chi Minh City, January, 2011
2. Galván, L., Olías, M. and van Griensven, A., Malfunctioning of stream-gauge stations in the Chanza and Arochete rivers (Huelva, Spain) detected from hydrological modeling with SWAT. 6th International SWAT conference, Toledo, Spain, June 2011.
3. Fidelis Kilonzo, J. Obando, P. Lens, and W. Bauwens, van Griensven, A. Choosing a Potential evapotranspiration method in the absence of essential input data, 6th International SWAT conference, Toledo, Spain, June 2011.
4. Xuan, Y, Yalaw, S. , Zhu Xu, A. van Griensven. Automated Analysis of upstream-downstream relationships using Bayesian Belief Networks from spatially distributed SWAT models, OpenWater symposium and workshops, April 18-19, Delft 2011.
5. Kayastha, N. van Griensven, A. Solomatine D. Dealing with uncertainties in remotely linked models. OpenWater symposium and workshops, April 18-19, Delft 2011.
6. Kayastha, N., Shenlan, Betrie, G. Zakayo, S., van Griensven, A., Solomatine, D. Dynamic linking of the watershed model SWAT to the multi objective optimization tool NSGAX, the 8th IWA Symposium on System Analysis and Integrated Assessment WATERMATEX, June 20-22, 2011, San Sebastián, Spain.
7. Avella, C., van Griensven, A. and Di Baldassarre, G. Cascading model uncertainty analysis through a sewer, rainfall-runoff model and a one-dimensional hydraulic modelling chain: the case study of the Senne river basin, the 8th IWA Symposium on System Analysis and Integrated Assessment WATERMATEX, June 20-22, 2011, San Sebastián, Spain.
8. Batdelger O., Dastgheib A., Alvarez G., Arias M., van Griensven A., Mynett A. Quantification of the nutrient regulation functions in a tropical riverine wetland system: the case study of the Abras de Mantequilla wetland, Ecuador, JOINT MEETING OF SOCIETY OF WETLAND SCIENTISTS, WETPOL AND WETLAND BIOGEOCHEMISTRY SYMPOSIUM 3–8 July 2011, Prague, Czech Republic
9. Alvarez G., van Griensven A., Arias M. Mynett, A. The use of bioindicators to assess the ecosystem health of the Guayas de Mantequilla wetland, Ecuador. JOINT MEETING OF SOCIETY OF WETLAND SCIENTISTS, WETPOL AND WETLAND BIOGEOCHEMISTRY SYMPOSIUM 3–8 July 2011, Prague, Czech Republic
10. Villa-Cox G., Arias-Hidalgo M., Mynett A., van Griensven A. Integrating models in wetland-river catchment systems. JOINT MEETING OF SOCIETY OF WETLAND SCIENTISTS, WETPOL AND WETLAND BIOGEOCHEMISTRY SYMPOSIUM 3–8 July 2011, Prague, Czech Republic
11. Yalaw, S. G. ,A. van Griensven, L. Kokoszkiwicz, Parallel computing of a large scale spatially distributed model using the Soil and Water Assessment Tool (SWAT), International Environmental Modelling and Software Society (iEMSs), 2010 International Congress on Environmental Modelling and Software, Modelling for Environment's Sake, Fifth Biennial Meeting, Ottawa, Canada, July 2010.
12. Hoang, L., van Griensven, A., Cools, J., and Mynett, A. (2009) Instream water quality processes in SWAT with different routing methods and adapted water quality modules for daily or sub-daily time steps. 2009 International SWAT conference, University of Colorado at Boulder, Boulder, Colorado, USA 229-240.
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2. Hoang, L., van Griensven, A., Mynett, A., Simulation of the hydrological and nitrogen balance and cycle within the Odense river basin. HydroEco2011: 3rd International Interdisciplinary Conference on Hydrology and Ecology, HydroEco2011, Vienna, Austria, May, 2-5, 2011.
3. Xu, Z., Seleshi, Y., van Griensven A. Automated building of Bayesian Belief Networks to replicate the spatial and ecotoxicological relationships in river basins, SWAT-SEA conference, Ho Chi Minh City, January, 2011
4. van Griensven, A., Evaluation and adaptation of the wetland and paddy field modules in SWAT, SWAT-SEA conference, Ho Chi Minh City, January, 2011
5. van Griensven, A. 2011, How to deal with uncertainties in remotely linked model? General Assembly of the European Geophysical Union, Vienna, Austria, April 3-6, 2011 (Sollicited presentation).
6. van Griensven, A., Hoang, L., Yimer, G. 2011. Improved simulation of groundwater and riparian processes in catchment water quality models. General Assembly of the European Geophysical Union, Vienna, Austria, April 3-6, 2011
7. van Griensven A., Z. Xu, X. Zhu, G. Seleshi , Y. Xuan, P.-J. Haest, G. , P. Seuntjens, S. Broekx, P. Campling, and L. Blaha.,AQUAREHAB: The development of a decision support tool to integrate groundwater remediation technologies in river basin management, General Assembly of the European Geophysical Union, Vienna, Austria, April 3-6, 2011
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9. van Griensven, A., Muiruri, J., Adaptation to the groundwater module of the Soil and Water Assessment Tool, 6th International SWAT conference, Toledo, Spain, June 2011.
10. van Griensven, A., Kilonzo F., Ndomba P., Gassman, P. Current Application Trends and Data Challenges Regarding the Use of the Soil and Water Assessment Tool (SWAT) in Africa, 6th International SWAT conference, Toledo, Spain, June 2011.
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14. Bacu, V., I., Rodila, D., Kokoszkiewicz, L., Rouholahnejad, E., Mihon, D., van Griensven, A., Abbaspour, K. and Gorgan D., Calibration and Execution of SWAT Models over GRID Architecture General Assembly of the European Geophysical Union, Vienna, Austria, April 3-6, 2011
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 16. Khisa, P., Wenninger, J. van Griensven, A., Uhlenbrook, S. Investigating the impact of groundwater-surface water interaction in Nyando wetland, Kenya, 12th WaterNET/WARFSA/GWP-SA Symposium October, 2011.
 17. Hoang, L., Van Griensven, A., van der Keur, P., Troldborg, L., Nilsson, B., and Mynett, A. (2010) Comparison of the SWAT model versus the DAISY-MIKE SHE model for simulating the flow and nitrogen processes, 2010 International SWAT conference, Seoul, Korea.
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 23. van Griensven A., Integrated environmental modelling for decision support in water management (Invited session keynote), 7th International Conference on Ecological Informatics (ISEI7) Ghent, Belgium, 13-16 December, 2010.
 24. van Griensven A. (2008) Integrating river water quality processes in catchment modelling for ecological risk assessment, General Assembly of the European Geophysical Union, Vienna, Austria, April 13 – 18, 2008. (Invited session keynote)
 25. van Griensven, A., Haest, P.J., Broekx, S., Seuntjens, P., Campling, P., Ducos, G., Blaha, L., Slobodnik, J. REACH-ER: a tool to evaluate river basin remediation measures for contaminants at catchment scale (2010), General Assembly of the European Geophysical Union, Vienna, Austria, May 2-7, 2010 (poster presentatie).
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 31. Sofini, A. ; van Griensven, A. (2006). Adaptive landuse management using hydrological modelling and Bayesian networks General Assembly of the European Geophysical Union, Vienna, Austria, April 2 – 7, 2006 (poster presentatie).
 32. Meixner, T., van Griensven A., and Bubb, K. Qualitative Uncertainty Assessment for Distributed Surface Water Quality Models, Fall 2006 AGU, San Francisco, CA, December 14, 2006 (invited).
 33. van Griensven A. and Vanrolleghem P. (2005). Evaluation of river water quality model concepts used for river basin management. General Assembly of the European Geophysical Union, Vienna, Austria, 24 - 29 April, 2005 (oral presentation).
 34. Meixner, van Griensven and Bubb, K., Challenges in Incorporating Uncertainty in Models of Surface Water Quality, Fall AGU San Francisco. December 9, 2005 (invited).
 35. van Griensven A. and Meixner T. (2004). Quantification of total uncertainty for river basin water quality models. General Assembly of the European Geophysical Union, Nice, Frankrijk, 25 - 30 April, 2004 (oral presentation).
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 37. van Griensven A. and Meixner T. (2003). Sensitivity, optimisation and uncertainty analysis for the model parameters of SWAT. SWAT2003: 2nd International SWAT conference, Bari, Italy, July 1-4 2003 (oral presentation).
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 40. van Griensven A. Michielsen S. and Bauwens W. (2001). Analysis of future scenarios on the river water quality using integral models. In: proceedings of the XXVI General Assembly of the European Geophysical Society, Nice, France, March 25 - 30, 2001 (oral presentation).
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 43. Bols J., Goethals P.L.M., Meirlaen J., van Griensven A., Vandenberghe V., Van Vooren L., De Pauw N., Vanrolleghem P.A. and Bauwens W. (1999). Automated measurement stations for river water quality monitoring. In: Proceedings 13th Forum Applied Biotechnology. Med. Fac. Landbouw. Univ. Gent, 64/5a, 107-110 (poster presentation).
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MEMBER OF PhD COMMITTEE

- **David Matamoros**, 2004. PhD Thesis, Universiteit Gent, Belgium, "Predicting river concentrations of pesticides from banana plantations under data-poor conditions".
- **Holvoet Katrijn**, 2006. PhD Thesis, Universiteit Gent, Belgium "Monitoring and modelling the dynamic fate and behaviour of pesticides in river systems at catchment scale".



- **Lorenzo Benedetti**, 2006. PhD Thesis, Universiteit Gent, Belgium "Estimating Uncertainty in Discharge and Water Quality Data for Monitoring and Modeling Application"
- **Gabriëlle De Lanoy**, 2006. PhD Thesis, Universiteit Gent, Belgium "Assimilation of Soil moisture observations into a spatially distributed hydrological model"..
- **Anne-Marie Solvi**, 2007. PhD Thesis, Universiteit Gent, Belgium "Modelling the sewer-treatment-urban river system in the view of the EU Water Framework Directive".
- **Faith Githui**, 2008. PhD Thesis, Free University Brussels, Belgium "Predicting land use and climate change effects on the hydrology of the Lake Victoria basin"
- **Veronique Vandenberghe**, 2008, PhD Thesis, Universiteit Gent, Belgium, "Methodologies for reduction of output uncertainty of river water quality models"
- **Hamed Rouhani**, 2008, PhD Thesis, Katholieke Universiteit Leuven, Belgium, "Parameter Identification and Uncertainty Estimation for Spatially Distributed Rainfall-runoff Model".
- **Simelish Gibriye Setegn**, 2010. Doctoral Thesis in Land and Water Resources Engineering, KTH Architecture and the Built Environment, Stockholm. "Modeling hydrological and hydrodynamic processes in lake Tana basin, Ethiopia" TRITA-LWR PHD 1057.
- **Santatriniaina Denise Rasolomanana**, 2012, PhD Thesis, Université Laval, Quebec, Canada.
- **Ahmed Youssef Sayed Abdelkhalek**, 2011, PhD thesis, Free University Brussels, Belgium, "Development of an early warning system for flash floods in Wadi Watier – Sinai desert".

ORGANISATION/CONVENER/SCIENTIFIC COMMITTEE OF CONFERENCES OR WORKSHOPS

- Organisor of the 4rd international SWAT conference, Delft, the Netherlands, July 2007.
- Initiator and co-organisor of the OpenWater conference, Delft, Nederland, April 18-20, 2011.
- Organisation of the session "Integrative Methods for Water Resources Management", General Assembly of the European Geophysical Union 2006, Wien, Austria, April 2006
- Co-organisation of the session "Integrated environmental models and decision support tools - from catchment to global scales", General Assembly of the European Geophysical Union 2004, Nice, France, 25 - 30 April 2004.
- Scientific committee member and convener for the 1st International SWAT conference, Giessen, Germany, 2001.
- Scientific committee member and convener for the 2nd International SWAT conference, Bari, Italy, 2003.
- Scientific committee member and convener for the 3rd International SWAT conference, Zurich, Switzerland, 2005.
- Scientific committee member and convener 5de International SWAT conference, Colorado, USA, 4-7 Augustus, 2009
- Scientific committee member of the International SWAT conference, September, South-Korea, 2010.
- Scientific committee member and convener for SWAT-SEAll conference, Ho Chi Minh city, Vietnam, January 4-6, 2011.



- Scientific committee member and convener 6de International SWAT conference, Toledo, Spain, June 20-24, 2011
- Scientific committee member for the AutMoNet2007 conference, Ghent, Belgium, September 2007.
- Scientific committee member and convener for WATERMATEX, Beijing, China, November 3-5, 2004.
- Scientific committee member for WATERMATEX2007 conference, Washington USA, April 2007.
- Scientific committee member for WATERMATEX2011 conference, Bilbao, June 2011.
- Technical committee member for the ASABE Water Quality Conference Planning Committee, Concepcion, Chile, March 2008.
- Technical committee member for the ASABE Water Quality Conference Planning Committee, Costa Rica, 2010.
- Technical committee member for the ASABE Water Quality Conference Planning Committee, Bari, 2012.
- Convener of a session at the 7th International Conference on Ecological Informatics (ISEI7) Ghent, Belgium, 13-16 December, 2010.
- Co-organisator of the CatchMod conference, Amsterdam, 2004.
- Co-organisation for the Harmoni-CA workshop on joint use of monitoring and monitoring (Ghent, April 3-5, 2005)
- Co-organisator of the Harmoni-CA conference, Brussels, 2005.
- Co-organisation for the Harmoni-CA workshop on joint use of monitoring and monitoring (Vilnius, Lithuania, 18-21 september, 2005).
- Co-organisator of the FRIEND/Nile workshop, Cairo, July 2006.
- Co-organisator of the Harmoni-CA conference, Osnabrück 2006.
- Co-organisator of the Harmoni-CA final conference, Brussels, September 24-27, 2007 (plenary session leader; workshop organisator "synthesis documents").
- Co-organisator of the FRIEND/Nile workshop, Dar-es-Salaam, August 2007.
- Co-organisator of the FRIEND/Nile workshop, Cairo, April 2011.

LANGUAGE PROFICIENCY

<i>Language</i>	<i>Reading</i>	<i>Speaking</i>	<i>Writing</i>
Dutch	+++++	+++++	+++++
English	+++++	+++++	+++++
French	++++	++++	++++
Spanish	++++	+++	+++
German	++++	++	+++