



Name van Griensven, Ann B. K.
Year of birth 1974
Nationality Belgium
Present position - UNESCO-IHE Institute for Water Education
Senior Lecturer in Environmental Hydroinformatics
- Ghent University (Belgium)
Guest Professor of Modelling and Simulating of Bio-
systems
Years with firm since 2005



EDUCATION

2002 PhD degree in Applied Sciences, Free University of Brussels, Belgium
1997 M.Sc. degree in Bio-Engineering, Ghent University, Belgium
Specialization in Environmental Technology
1992 O.L.Vrouwpresentatie, Sint-Niklaas, Belgium

EMPLOYMENT RECORD

2006-present Ghent University – Guest Professor of Modelling and Simulating of Bio-systems at BIOMATH research group, Ghent University, Belgium
2005 - present UNESCO-IHE Institute for Water Education, Delft, The Netherlands
- Senior Lecturer in Environmental Hydroinformatics
2004-2005 Ghent University, Fac. Bioscience Engineering, BIOMATH department, Belgium.
- post doctoral researcher
2003 University of California Riverside, Department of Environmental Sciences
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
- post doctoral researcher
- European Harmoni-CA project

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 Soil and Water Assessment Tool (SWAT). In the meantime, she is a highly recognized expert of the SWAT modelling software in which many of her developments have been incorporated (reduced time step, river routing routines, tools for sensitivity analysis, auto-calibration and uncertainty analysis,...). She also applied her experience in educational activities such as SWAT workshops and SWAT short courses (SWAT summerschool 2004 at Giessen, DE, SWAT summerschool 2005 at Zurich, CH and SWAT summerschool 2006 at Delft, NL). She also was member of the scientific committee for SWAT 2001 conference at Giessen, DE, SWAT2003 Conference at Bari, IT, SWAT2005 conference at Zurich, CH) and is organiser for the SWAT2007 conference at Delft NL.

Another important field of interest is exploring the interface between science and policy during projects (EU Harmoni-CA project on the use of ICT tools for implementing the EU Water Framework Directive), co-



organisation of workshops and conferences, and editing special issue on Integrating Methods for Water Resources Management of the Journal of Water Resources Management. She is also guestprofessor for the course “Decision support Techniques for Environmental Management” at Ghent University.

MAIN DISCIPLINE / SPECIALISATION

hydrological modelling, water quality modelling, uncertainty analysis, SWAT modelling

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EXPERIENCE RECORD

EXPERIENCE in CONSULTANCY, PROJECT ASSIGNMENTS and EDUCATION

TEACHING

- **Advanced Course of SWAT (sensitivity analysis, auto-calibration and uncertainty analysis)**, July 2005. Swiss Federal Institute for Environmental Science and Technology (EAWAG), Switzerland - *In English*.
- **Several subjects** for the Masters of Science in Water Science and Engineering, option Hydroinformatics, 2006 and further, UNESCO-IHE, Delft, the Netherlands - *In English*.
- **Course of SWAT for KOWACO (South Korea)**, 2005, UNESCO-IHE, Delft, the Netherlands - *In English*.
- **Course of SWAT for KOWACO (South Korea)**, 2006, UNESCO-IHE, Delft, the Netherlands- *In English*.
- **Course of SWAT and applications in the Nile basin**, UNESCO-FRIEND Nile project, Cairo, Egypt, May, 2006- *In English*.
- **Modelling and simulation as decision support tools for Environmental Management**, 2006-2007, Masters of Science in Environmental sanitation, Ghent University, Belgium- *In Dutch*.
- **Assisting in “Informatics”, 1997-1998**, Ghent University, Belgium- *In Dutch*.
- **Assisting in “Surface Hydrology”, 2001-2002**, Master of Science in Water Resources Engineering, Vrije Universiteit Brussel, Belgium- *In English*.
- **Assisting in “hydrologic modelling (SWAT workshop)”**, 2000-2002, Master of Science in Water Resources Engineering, Vrije Universiteit Brussel, Belgium- *In English*.

DAILY

- **David Matamoros**, 2004. PhD Thesis, Universiteit Gent, Belgium.

GUIDANCE

- **Holvoet Katrijn**, 2007. PhD Thesis, Universiteit Gent, Belgium.

OF PHD

- **Hong Li**, ongoing, PhD Thesis, UNESCO-IHE

STUDENTS

- **David Love**, ongoing, PhD Thesis, UNESCO-IHE

DAILY

- **Smets, Steven**, 1999. Thesis, Master of Science in Water Resources Engineering, Vrije Universiteit Brussel, Belgium.

GUIDANCE

- **Olivié, Wim**, 1999, Thesis, Master of Science in Water Resources Engineering, Vrije Universiteit Brussel, Belgium.

TO MASTER

- **Tennekoon, Janaka**, 1999, Thesis, Master of Science in Water Resources Engineering, Vrije Universiteit Brussel, Belgium

OF SCIENCE

- **Aijuk, Sunny Enow**, 2000, Thesis, Master of Science in Water Resources Engineering, Vrije Universiteit Brussel. Belgium

**THESIS**

- **Michielsen, Stefan**, 2001, Thesis, Master of Science in Water Resources Engineering, Vrije Universiteit Brussel, Belgium.
- **Faith, Githui**, 2001. Thesis, Master of Science in Water Resources Engineering, Vrije Universiteit Brussel, Belgium.
- **Masawe, Ezrael**, 2001. Thesis, Master of Science in Water Resources Engineering, Vrije Universiteit Brussel, Belgium.
- **Franco, Gabriella**, 2001, Thesis, Master of Science in Human Ecology, Vrije Universiteit Brussel, Belgium.
- **Van Herzeele, Frederik**, 2002. Thesis, Master of Science in Water Resources Engineering, Vrije Universiteit Brussel, Belgium.
- **Alger, Kristi**, 2004. Thesis, Master of Science in Environmental Sciences, University of California Riverside, USA.
- **Gevaert, Veerle**, 2006, Thesis, Proefschrift Bio-ingenieur, Universiteit Gent, België.
- **Sofini, Ani**, 2006. Master of Science in Water Science and Engineering, UNESCO-IHE, Delft, the Netherlands.
- **Akhtar, Khaled**, 2006. Master of Science in Water Science and Engineering, UNESCO-IHE, Delft, the Netherlands.
- **Velez, Carlos**, 2006, Master of Science in Water Science and Engineering, UNESCO-IHE, Delft, the Netherlands.
- **Lévesque, Etienne**, 2007, Thesis, Master of Science, niversité Laval. Quebec City
- **Flora Umuhire**, 2007, Master of Science in Water Science and Engineering, UNESCO-IHE, Delft, the Netherlands.
- **Didier Haguma**, 2007, Master of Science in Water Science and Engineering, UNESCO-IHE, Delft, the Netherlands.
- **Rahel Tessema Sintanyehu**, 2007, Master of Science in Water Science and Engineering, UNESCO-IHE, Delft, the Netherlands.

PROJECTS

- **EU project CHES: Climate, Hydrochemistry and Economics of Surface-water Systems** (Vrije Universiteit Brussel, 1998-2000)
- **Development of a hydro-informatical system for integrated water management of rivers** (Vrije Universiteit Brussel, 1998-2000)
- **Evaluation of the water quality of the Senne river based on an integrated modelling approach** (Vrije Universiteit Brussel, 2001-2002)
- **Development of an Uncertainty Framework for the Soil Water Assessment Tool (SWAT)** (University of California, Riverside, 2003)
- **EU project Harmoni-CA** (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.
- **UNESCO FRIEND Nile Project (2006-2009)**
- **Delft-Cluster project “Water Framework Directive Tools”**

PUBLICATIONS**CHAPTERS IN BOOKS**

1. 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.



2. 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.
3. 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

2007

1. Lévesque, E., Anctil, F., van Griensven, A., Beauchampa, N. (2007). Evaluation of SWAT model's streamflow simulation for two small watersheds under snowmelt and rainfall, Hydrological Sciences Journal, in review.
2. Lévesque, E., Lamontagne, L., van Griensven, A., Vanrolleghem P.A., Anctil, F.. (2007). Adaptions des données physiographiques au modèle de qualité de l'eau SWAT. Revue du Génie et de la Science de l'Environnement, in review.
3. Gevaert, V., Holvoet, K., van Griensven, A., Seuntjens, P., Vanrolleghem, P. (2007). Pesticide modelling for management using SWAT: recent developments and recommendations, Hydrological Sciences Journal, in review.
4. van Griensven, A. and Meixner, T., Grunwald, S., Srinivasan, R. (2007). Fit-for-purpose uncertainty versus calibration uncertainty in model-based decision making, Hydrological Sciences Journal, in review.
5. 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, in review.
6. Holvoet, K., van Griensven, A., Seuntjens, P. and Vanrolleghem, P. A. (2007). Modelling direct losses in a small river catchment in Belgium with SWAT. Submitted to Environmental Modelling & Software, accepted.
7. 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, accepted.

2006

8. 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) (2005) 2460-2474 by Denny Parker and Henryk Melcer. Water Res. 2006 Jul 27; : 16876225.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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

14. 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.



15. 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.
16. 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.
17. 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.
18. 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.
19. 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

20. 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

21. 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.
22. van Griensven A. and Bauwens W. (2003). River water quality management for the Senne river basin (Belgium), *European Water*, May 2003.
23. 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

24. 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.
25. 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

26. 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.
27. 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. (2006). Modelleren van het dynamisch gedrag van pesticiden in riviersystemen. @WEL, in review.

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.

**PROCEEDINGS****2007**

1. Love, D., Uhlenbrook, S., van der Zaag, P., Twomlow, S., van Griensven, A. Response of semi-arid meso-catchments to rainfall in a drought year, 8th WaterNet/WARFSA/GWP-SA Symposium, Livingstone, Zambia, November 2007.
2. Sentanyehu, R., van Griensven, A., Jonoski, A., Mohamed, Y., K., Price, R. (2007). Agricultural Drought Assessment for Upper Blue Nile Basin, Ethiopia using SWAT, Nile Workshop, June 4-5, 2007.
3. Mynett, A. M., Hong, L., van Griensven, A., Integrating flexible instruments for modelling spatio-temporal algal population dynamics: linking processes and scales. 6th International Symposium on Ecohydraulics, February 18-23, 2007, Christchurch, New Zealand.
4. Haguma, D, van Griensven, A, Van Andel, S.J., Anctil, F. and Price, R. Development of hydrologic model of Kagera River basin using Remote sensing data, General Assembly of the European Geophysical Union, Vienna, Austria, April 15-20, 2007 (poster presentation).
5. Gevaert, V., Holvoet, K., van Griensven, A., Seuntjens, P., Vanrolleghem, P. Modelling mitigation measures for pesticide pollution control using SWAT, 4th International SWAT conference, July 2-7, Delft, the Netherlands (oral presentation).
6. van Griensven, A., Akhtar, M.K., Haguma, D., Sintayehu, R. Schuol, J. Abbaspour K., Price, R. Catchment Modelling with Internet based Global Data, 4th International SWAT conference, July 2-7, Delft, the Netherlands (oral presentation).
7. Vandenberghe V., Benedetti L., Borsányi P., Claeys P., van Griensven A., Serra L. Tarnay K. and Vanrolleghem P.A. A web-based statistical toolbox as part of the CatchMod ToolBox: free and guided statistical analysis for the implementation of the Water Framework Directive, 7th International Symposium on System Analysis and Computing in Water Quality Management (poster presentation).
8. Gevaert, V., Holvoet, K., van Griensven, A., Benedetti, L., Vanrolleghem, P. Reduction of the impact of pesticides in surface water compartments: Evaluation using dynamic models, MICROPOL & ECOHAZARD 2007. 5th IWA Specialised Conference on Assessment and Control of Micropollutants / Hazardous Substances in Water, DECHEMA, June 17-20. Frankfurt/Main, Germany (poster presentation).

2006

9. Gevaert, V., Holvoet, K., van Griensven, A., Benedetti, L., Vanrolleghem, P. Reductie van de impact van bestrijdingsmiddelen in oppervlaktewatercompartimenten: evaluatie m.b.v. dynamische blootstellingsmodellen Studiedag 'Een goede waterkwaliteit voor onze oppervlaktewaters: zorgen voor morgen!?', November 21, 2006 Antwerpen, Belgium (poster presentation).
10. Umuhire, F., Beaudin, I., Deslandes, J., Michaud, A., van Griensven, A., Lévesque, E., Vanrolleghem, P.A., The New SWAT-2005 model: Sensitivity analysis, auto-calibration and modeling of hydrology, sediment, phosphorus and nitrogen mobility in the Walbridge Creek watersheds, Workshop "qualité et quantité de l'eau en milieu agricole of the Association Canadienne des Ressources Hydriques - Québec Section", February 22, Québec, Canada.
11. 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.
12. van Griensven, A., Holvoet, K. and Yang, J. (2006). Open source model codes: critical review on the routing modules of the Soil and Water Assessment Tool (SWAT), The 7th international Conference on Hydroinformatics, September 4-8, 2006, Nice, France, (oral presentation).
13. van Griensven, A., Flindt-Jørgensen, L., Vandenberghe, V., Sonnenborg, A., Vanrolleghem, P. A. (2006). Joint use of modelling and monitoring for implementing the Water Framework Directive, General Assembly of the European Geophysical Union, Vienna, Austria, April 2 - 7, 2006 (oral presentation).
14. Holvoet, K.; van Griensven, A.; Seuntjens, P., Vanrolleghem, P.A. (2006). The Importance of a Measuring Campaign for Model Development: Modifications to SWAT for Pesticides, General Assembly of the European Geophysical Union, Vienna, Austria, April 2 - 7, 2006 (oral presentation).
15. 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 presentation).
16. van Griensven, A., Schuol, J.; Diez Herrera, M.; Bauwens, W., (2006). Development of a hydroinformatics system for the water resources management of the Nile river basin, General Assembly



of the European Geophysical Union, Vienna, Austria, April 2 – 7, 2006 (poster presentation).

17. Holvoet K., Seuntjens P., Van Griensven A., De Schepper V., Gevaert V., Vanrolleghem P.A. (2006). Modelleren van het dynamisch gedrag van pesticiden in riviersystemen. In: Proceedings Studiedag Waterkwaliteit - Congres Watersysteemkenis. Antwerp, Belgium, November 21 2006.

2005

18. Meixner, van Griensven and Bubb, K., Challenges in Incorporating Uncertainty in Models of Surface Water Quality, Fall AGU San Francisco. Invited, December 9, 2005.
19. Meixner, van Griensven and Bubb, K., Methods of Uncertainty Analysis in Water Quality Models, presented at UC Santa Barbara at EPRI meeting June 18th, 2005.
20. Vandenberghe, V., van Griensven A. and Vanrolleghem P. A., Goethals, P.L.M., Zarkami, R., De Pauw, N. (2005). Coupling water quality and fish habitat models for river management: simulation exercises in the Dender basin. Proceedings from COST 626 meeting, Silkeborg, Denmark, May 19-20, 2005 (oral presentation).
21. van Griensven A. and Vanrolleghem P. (2005). Guided use of ICT tools for the implementation of the Water Framework Directive. General Assembly of the European Geophysical Union, Vienna, Austria, 24 - 29 April, 2005 (poster presentation).
22. 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).
23. Holvoet, K., van Griensven, A., Seuntjens, P. and Vanrolleghem, P.A. (2005). Sensitivity analysis as a tool supporting river basin management. Water Science and Technology. 2005 IWA Watershed & River Basin Management Specialist Group Conference, September 13-15, 2005 Calgary, Alberta, Canada (oral presentation).
24. van Griensven A. and Vanrolleghem P. (2005). The CatchMod Toolbox: Easy and guided access to ICT tools for Water Framework Directive implementation. 2005 IWA Watershed & River Basin Management Specialist Group Conference, September 13-15, 2005 Calgary, Alberta, Canada (oral presentation).
25. Vandenberghe V., van Griensven A. Bauwens. W. and Vanrolleghem P. (2005). Effect the selection of different river water quality model concepts used for river basin management decisions. 2005 IWA Watershed & River Basin Management Specialist Group Conference, September 13-15, 2005 Calgary, Alberta, Canada (oral presentation).

2004

26. van Griensven A. and Meixner T. (2004). Methods to quantify and identify the sources of uncertainty for river basin water quality models, 6th International Symposium on System Analysis and Computing in Water Quality Management, Beijing, November 3-5, 2004. (oral presentation).
27. 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).
28. van Griensven A. and Meixner T. (2004). Dealing with unidentifiable sources of uncertainty within environmental models, The International Environmental Modelling and Software Society Conference 14-17 June 2004, Osnabrück, Germany (oral presentation).

2003

29. van Griensven A. and Bauwens W. (2003). Integration of in-stream water quality concepts within SWAT. SWAT2003: 2nd International SWAT conference, Bari, Italy, July 1-4, 2003 (oral presentation).
30. 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).
31. van Griensven A. and Meixner T. (2003). Parameter uncertainty assessment for distributed water quality models, AGU fall meeting, 8-12 December 2003 (oral presentation).
32. Meixner T. and van Griensven A. (2003). Model Structural Uncertainty Assessment Using a Split Sample Approach for Distributed Water Quality Models, AGU fall meeting, 8-12 December 2003 (oral presentation).
33. Vandenberghe V., van Griensven A., Bauwens W. and Vanrolleghem P.S. (2003) Propagation of uncertainty in diffuse pollution into water quality predictions: Application to the river Dender in



Flanders, Belgium. In: Proceedings 7th IWA Conference on Diffuse Pollution and Basin Management (DipCon). Dublin, Ireland, August 17-22 2003 (oral presentation).

2002

34. van Griensven A. and Bauwens W. (2002). River water quality management for the Senne river basin (Belgium), 5th International conference for Water Resources Management in the era of transition, Athens, 4-8 september 2002 (oral presentation).
35. van Griensven A. and Bauwens W. (2002). Applicability of models for integrated river water quality management, 5th International conference for Water Resources Management in the era of transition, Athens, 4-8 september 2002 (oral presentation).
36. van Griensven A. and Bauwens W. (2002). Concepts for river water quality processes for an integrated river basin modelling. 1st IWA Young Researcher Conference, 9 - 10 September, 2002, (poster presentation).
37. van Griensven A. and Bauwens W. (2002). Multi-objective calibrations for river water quality modelling, in XIV International Conference on Computational Methods in Water Resources, June 23-28, 2002, Delft, The Netherlands, (oral presentation)..
38. van Griensven A., Vandenberghe V. and Bauwens W. (2002). Experiences with on-line and web-based water quality measurement stations in Belgium, International IWA Conference on Automation in Water Quality Monitoring, May 21-22, 2002, Vienna, Austria (poster presentation).
39. van Griensven A. and Bauwens W. (2002). Comparison of Process Descriptions for River Quality in an Integrated Modelling Context, in Proceedings of Hydroinformatics 2002, Cardiff 1-5 July 2002 (oral presentation).

2001

40. Vandenberghe V. , van Griensven A. and Bauwens (2001). Detection of the most optimal measuring points for water quality variables: application to the river water quality model of the river Dender in ESWAT. 2^d World Congress of the International Water Association, Berlin, Germany (oral presentation by V. Vandenberghe).
41. van Griensven A., Arnold J. G. and Bauwens W. (2001). Integral modelling of point sources, non-point sources and instream processes in river basins: application on the Wister Lake basin (Oklahoma, USA). In: proceedings of the 5th International Conference on Diffuse/Nonpoint Pollution and Watershed Management, MILWAUKEE, USA, June 10-15, 2001 (oral presentation).
42. van Griensven A., Francos A. and Bauwens W. (2001). Sensitivity analysis and auto-calibration of an integral dynamic model for river water quality, In: proceedings of the 5th International Conference on Diffuse/Nonpoint Pollution and Watershed Management, MILWAUKEE, USA, June 10-15, 2001 (oral presentation).
43. van Griensven A. and Bauwens W. (2001) Identification of distributed parameters in hydrologic models, In: proceedings of the International Workshop on Catchment-scale Hydrological Modeling and Data Assimilation, Wageningen, Netherlands, September 3-9, 2001 (poster presentation).
44. van Griensven A. Michielsens 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).
45. van Griensven A. (2001). Multi -point auto-calibration of distributed models. In: proceedings of the XXVI General Assembly of the European Geophysical Society, Nice, France, March 25 - 30, 2001 (poster presentation).
46. van Griensven A. and Bauwens W. (2001). Multi-objective calibration in integrated water quality modelling. In: proceedings of the XXVI General Assembly of the European Geophysical Society, Nice, France, March 25 - 30 (oral presentation).
47. D'heygere T., Goethals P., van Griensven A., Vandenberghe V., Bauwens W., Vanrolleghem P.A. and De Pauw N. (2001) Optimisation of the discrete conductivity and dissolved oxygen monitoring using continuous data series obtained with automated measurement stations. In: Proceedings 15th Forum Applied Biotechnology. Med. Fac. Landbouw. Univ. Gent, 66/3a, 149-153 (poster presentation).

2000



48. De heyder B., van Griensven A. and Van Elst T. (2000) Emissions from area sources: parameter research of the sampling method , Odors and VOC Emissions 2000; April 2000, Cincinnati, USA (oral presentation by B. De heyder).
49. Vandenberghe V. , van Griensven A. and Bauwens W. (2000). Sensitivity analysis and calibration of the parameters of ESWAT: Application to the river Dender. 5th International Symposium on System Analysis and Computing in Water Quality Management, Gent, Belgium (oral presentation by V. Vandenberghe).
50. van Griensven A., Vandenberghe V., Bols J., De Pauw N., Goethals P., Meirlaen J., Vanrolleghem P.A., Van Vooren L. and Bauwens W. (2000). Experience and organisation of automated measuring stations for river water quality monitoring, 1st World Congress of the International Water Association, Paris, France (poster presentation).
51. van Griensven, A. and Bauwens W. (2000). Development of an integral water quality model for rural catchments . 1st World Congress of the International Water Association, Paris, France (poster presentation).
52. van Griensven A. and Bauwens W. (2000). Integral modelling of catchments. 5th International Symposium on System Analysis and Computing in Water Quality Management, Gent, Belgium (poster presentation).

1999

53. 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).
54. Goethals P., van Griensven A., Bols J., De Pauw N., Vanrolleghem P.A., Van Vooren L. and Bauwens W. (1999). Automated measurement stations and water quality modelling. In: Proceedings 9th European Congress on Biotechnology. Brussels, July 11-15 1999.
55. Fronteau C., van Griensven A. and Bauwens W. (1999). Construction and calibration of an integrated urban drainage model. Proc. For the 5th International Conference on Water Pollution 99, May 24-26, Lemnos, Greece (oral presentation by C. Fronteau).
56. Marshall A., Bauwens W. Boorman D., Manni K. and van Griensven A. (1999). Modelling water quality in European rivers. Proc. For the 5th International Conference on Water Pollution 99, May 24-26, Lemnos, Greece (oral presentation by A. Marshall).

LANGUAGE PROFICIENCY

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

PROFESSIONAL AFFILIATIONS

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ACADEMIC AWARDS