

Curriculum Vitae

Renaat De Sutter

AMRP

Afdeling
Mobiliteit & Ruimtelijke Planning
Universiteit Gent



DEGREES

- 1995: Civil engineer, University Gent
Grade: distinction
- 1998: Graduated in complementary studies in environmental sciences and technologies, University Gent
- 2000: Certificate Ph.D. training in Engineering, University Gent
- 2000: Ph.D. in Engineering, University Gent
- 2002: Certificate Integrated Water Management, University Antwerp

PROFESSIONAL CAREER

- 17/08/1995 - 31/12/1995: Project engineer, Duynslaeger NV
- 01/01/1996 - 15/11/2000: Scientific assistant, University Gent, Civil engineering, Hydraulics Laboratory
- 16/11/2000 - 31/12/2008: Manager Integrated Water Management, Ecolas NV (integrated in Arcadis from 2007), Director department Environment (from 2007)
- 01/01/2009 - 31/12/2011: Senior Expert, IMDC
- 28/02/2007 - now: Professor in integrated water management & environmental policy, University Gent, Civil engineering.
- 01/01/2012 - now: Contract Manager, Antea Group

Profession

Contract Manager

Date of Birth

20 October 1972

Nationality

Belgian

Languages

Dutch, English, French,
German

EXPERIENCE

Key qualifications

- Hydraulics and morphology, influence of climate change on the water cycle, sediment transport, dredging and environment, integrated water management
- Project experience in integrated water management and marine projects, on European level
- Internationally recognized expertise in sediment transport, integrated water management and climate change
- Experience in management of large and international projects

Teaching experience

1996 - 2000

- Supervising practica, Hydraulics Laboratory
- Supervising project exercises, Hydraulics Laboratory
- Supervising dissertations, Hydraulics Laboratory
- Supervising lab- and field exercises IUPWARE-program

2006 - 2007

- Teaching: "environmental care in industry"; partim soil and water, faculty of Law, in support of prof.dr.ir.G. Van Eetvelde

2007 - now

- Teaching "integrated water management" Master of spatial planning, faculty of engineering sciences

2007 - now

- Teaching "integrated water management" Master of geography, faculty of sciences

2008 - now

- Teaching & evaluation of project exercise "integrated water management" in support of prof. dr. ir. P. Troch. Course water management and environment. Master of Civil Engineering, faculty of Sciences.

SCIENTIFIC DISTINCTION AND PRIZES

Laureate of the “World Association for Sedimentation and Erosion Research” (2004) by publication of the article “Sediment transport experiments in unsteady flow” into the journal “International Journal of Sediment Research”

PUBLICATIONS AND PRESENTATIONS

Papers

(a1) papers in journals cited via the Science Citation Index, Social Science Citation Index, Arts and Humanities Citation Index

(p1) papers in conferences cited via the Science Citation Index, Social Science Citation Index, Arts and Humanities Citation Index

1. UNSTEADY FLOW SEDIMENT TRANSPORT

De Sutter R., Huygens M., Verhoeven R.

Proceedings 7th International Symposium on River Sedimentation & 2nd International Symposium on Environmental Hydraulics, p. 53-57, Jayawardena A., Lee J., Wang Z. (editors), 16-18 December 1998, Hong Kong, China. ISBN 90-5809-034-5.

2. UNSTEADY FLOW SEDIMENT TRANSPORT IN A SEWER MODEL

De Sutter R., Huygens M., Verhoeven R.

Water, Science and Technology, 1999, 39(9) 121-128.

3. SIMULATION OF SEDIMENT TRANSPORT IN A SMALL BASIN WITH ARTIFICIAL FLOOD EVENTS

De Sutter R., Krein A., Van Poucke L.

Proceedings 3th International Conference on Advances in Fluid Mechanics, p. 549-558, Rahman M., Brebbia C., (editors), May 2000, Montreal, Canada. ISBN 1-85312-813-9.

4. TRANSPORT OF SEDIMENT MIXTURES

De Sutter R., Huygens M., Verhoeven R.

IAHS publication nr. 263 Int. Symp. On the role of erosion and sediment transport in nutrient and contaminant transfer, 10 - 14 July 2000, Waterloo, Canada.

5. INTEGRATED RIVER MANAGEMENT OF A SMALL FLEMISH RIVER CATCHMENT

Huygens M., De Sutter R., Verhoeven R.

IAHS publication nr. 263 Int. Symp. On the role of erosion and sediment transport in nutrient and contaminant transfer, 10 - 14 July 2000, Waterloo, Canada.

6. SIMULATION OF SEDIMENT TRANSPORT DURING FLOOD EVENTS: LABORATORY WORK AND FIELD EXPERIMENTS

De Sutter R., Krein A., Verhoeven R.

Hydrological Sciences, 2001, 46(4) 599-610.

7. USE OF ARTIFICIAL FLOOD EVENTS TO DEMONSTRATE THE INVALIDITY OF SIMPLE MIXING MODELS

Krein A., De Sutter R.

Hydrological Sciences, 2001, 46(4) 611-622.

8. SEDIMENT TRANSPORT IN UNSTEADY FLOW

De Sutter R., Huygens M., Verhoeven R.

Journal of Sediment Research, 2001, 16(1) 19-35.

9. METHODOLOGY FOR THE DEVELOPMENT OF RIVER SUB-BASIN MANAGEMENT PLANS: CONCEPT AND APPLICATION .

Staes J. R. De Sutter, M. Coenen, K. Buis, A. Lust, P. Meire.

River Basin Management 2003, 28 - 30 April 2003, Gran Canaria.

10. VALIDATION OF EXISTING BED LOAD TRANSPORT FORMULAE USING IN-SEWER SEDIMENT

De Sutter R., Tait S., Rushforth P., Huygens M., Verhoeven R and Saul A.

Journal of Hydraulic Engineering, 2003, 129(4), 325-333.

11. THE EROSION BEHAVIOUR OF BIOLOGICALLY ACTIVE SEWER SEDIMENT DEPOSITS:

OBSERVATIONS FROM A LABORATORY STUDY
Banasiak R., Verhoeven R., De Sutter R. and Tait S.
Water Research, 2005, 39(20), 5221-5231.

12. A GIS TOOL FOR FLOOD RISK ANALYSIS IN FLANDERS (BELGIUM)
Kellens W., Deckers P., Saleh H., Vanneuville W., De Maeyer Ph., Allaert G. & De Sutter R.
Proceedings RISK ANALYSIS 2008. Sixth International Conference in Computer Simulation Risk
Analysis and Hazard Mitigation. 5 - 7 May, 2008. Cephalonia, Greece.

13. EVOLUTION OF MARINE STORMINESS IN THE BELGIAN PART OF THE NORTH SEA
Van den Eynde D., De Sutter R. and Haerens P.
Natural Hazards and Earth System Sciences, 12, 305-312, 2012

(a2) papers in international journals, reviewed by international experts and not comprised in (a1)

1. FRICTION CHARACTERISTICS IN UNSTEADY OPEN CHANNEL SEWER FLOW
De Sutter R., Huygens M., Verhoeven R.
Journal of Hydrology and Hydromechanics, 1998, 46(3) 189-206.

2. IDENTIFICATION OF SEDIMENT TRANSPORT IN A SMALL RIVER CATCHMENT, LEADING TO
INTEGRAL MANAGEMENT
Huygens M., Verhoeven R., De Sutter R., Van Poucke L., Parzonka W., Glowski R., Kasperek R.
Journal of Water and Land Development, 2000, 4, 113-123.

3. THE EROSION OF COHESIVE MIXED DEPOSITS:
IMPLICATIONS FOR SEWER FLOW QUALITY MODELLING
De Sutter R., Rushforth P. J., Tait S. J., Huygens M., Verhoeven R., Saul A. J.
Urban Water, 2000, 2, 285-294.

(a3) papers in national journals, with a review committee, not comprised in (a1) en (a2)

1. PROGNOSE VAN HET TOTAAL WATERVERBRUIK IN VLAANDEREN
De Sutter R.
Water, 2002, 4, 1-7.

2. HET VLAAMS MILIEUKOSTENMODEL WATER: DE ONTWIKKELING VAN EEN INSTRUMENT
VOOR EEN EFFICIËNTER BELEID INZAKE KWALITEIT VAN OPPERVLAKTEWATER
Meynaerts E., Ochelen S., Beckers A., Van Biervliet K., Bormans R., Gielen B., De Sutter R.,
Wuyts S.
Water, april 2004.

3. NAAR EEN EVENWAARDIGE BEOORDELING VAN ECOLOGISCHE, ECONOMISCHE EN SOCIALE
EFFECTEN VAN DE TOENAME AAN OVERSTROMINGEN DOOR DE KLIMAATVERANDERING: HET
ADAPT-VERHAAL
De Sutter R., Coninck I., De Smet L.
Water, 2008.

4. KLIMAATVERANDERINGEN IN VLAANDEREN EN MOGELIJKE INVLOEDEN OP RUIMTE &
LEEFOMGEVING.
Debontridder L., De Sutter R. & Allaert G.
Ruimte, 2010.

(a4) papers in journals, not comprised in (a1), (a2) en (a3)

1. PROGNOSE VAN HET WATERVERBRUIK IN VLAANDEREN
De Sutter R.
Aquarama, Juli 2002.

2. PROGNOSE VAN HET WATERVERBRUIK IN VLAANDEREN
De Sutter R.
Milieu-Direct, Augustus 2002.

3. BODEMEROSIE: ERVARINGEN VAN EEN DIENSTVERLENER
De Sutter R., Leroy I.
Infokrant bodemerosiebestrijding 2003, Vlaamse Gemeenschap.

4. LATVIAN WATER, FLEMISH KNOW-HOW

Sven Van den Eynde (m.m.w. van De Sutter R.)
Flanders, tijdschrift Vlaamse Gemeenschap, September 2005.

5. BELGIAN BREAKTHROUGHS: RESEARCH AND DEVELOPMENT
B-IWA (co-auteur De Sutter R.)
Water 21, tijdschrift International Water Association, October 2005.

6. LOS DE MACHTSSPELLETJES OP, EN WE KUNNEN DE WATERPROBLEMEN AANPAKKEN;
Draulans D., Meire P., De Sutter R. et al.
Knack, p. 102-105, 24 November 2010.

Books

(b1) Author or co-author of a book

(b2) Author of a chapter in a book

Milieurapport Vlaanderen 2009: Milieuverkenning 2030 (Van Steertegem M, eindredactie).
Klimaatverandering en waterhuishouding. Johan Brouwers, Bob Peeters, Patrick Willems,
Pieter Deckers, Philippe De Maeyer, Renaat De Sutter, Wouter Vanneuville. D/2009/6871/038.
ISBN 978-908040200-3. NUR 973/943.

(b3) Editor of a book

Conference proceedings

(c1) oral presentation and full papers in proceedings of international scientific conferences, not cited in (a1) - (a4)

1. UNSTEADY OPEN CHANNEL FLOW REGISTRATIONS IN A TEST FLUME WITH CIRCULAR CROSS-SECTION

De Sutter R., Huygens M., Verhoeven R.
Proceedings 8th International Conference on Computational Methods and Experimental Measurements, p. 469-478, Carlomagno G., Anagnostopoulos P., Brebbia C. (editors), 21-23 May 1997, Rhodes, Greece. ISBN 1-85312-463-X.

2. FRICTION CHARACTERISTICS IN UNSTEADY OPEN CHANNEL SEWER FLOW

De Sutter R., Huygens M., Verhoeven R.
Proceedings 9th International Conference on Transport & Sedimentation of Solid Particles, p. 203-215, Sobota J. (editor), 2-5 September 1997, Cracow, Poland. ISBN 83-85582-23-1.

3. FLUME EXPERIMENTS OF SEDIMENT TRANSPORT IN UNSTEADY FLOW

De Sutter R., Huygens M., Verhoeven R.
Proceedings 2nd International Conference on Advances in Fluid Mechanics, p. 44-54, Rahman M., Brebbia C., Comini G. (editors), 13-15 May 1998, Udine, Italy. ISBN 1-85312-5589-X.

4. TRANSPORT OF NON-COHESIVE MATERIAL IN UNSTEADY FLOW

De Sutter R., Huygens M., Verhoeven R.
Proceedings 3th International Conference on Advances in Hydrosience and Engineering, p. 31 (CD-ROM), Holz K.P., Bechteler W., Wang S., Kawahara M. (editors), 31 August - 2 September 1998, Cottbus, Germany. ISBN 0-937099-08-2.

5. BED SHEAR STRESS GOVERNING EROSION ON COHESIVE MIXTURES

De Sutter R., Huygens M., and Verhoeven R.
Proceedings 28th IAHR Congres, Bergmann H., Krainer R., Breinhaelter H. (editors), 22-27 August, 1999; Graz, Austria.

6. SEDIMENTATION PROBLEMS IN SEWERS: A LABORATORY STUDY

De Sutter R., Huygens M., Verhoeven R., and Parzonka W.
Seminar on the transport of cohesive and semi-cohesive soils in rivers and its impact on hydraulic structures, p.213-222, Sobota J. (editor), 3-5 November, 1999, Opole Kamien Slaski, Poland. ISSN 0867-7964.

7. CALIBRATION OF A BEDLOAD SAMPLER

Kasperek R., Huygens M., Parzonka W., De Sutter R., and Verhoeven R
Seminar on the transport of cohesive and semi-cohesive soils in rivers and its impact on hydraulic structures, p.95-102, Sobota J. (editor) 3-5 November, 1999, Opole Kamien Slaski,

Poland. ISSN 0867-7964.

8. EVALUATION OF SEDIMENT MOBILITY IN SEWERS: A LABORATORY STUDY

De Sutter R., Huygens M., Verhoeven R.

Proceedings 10th International Conference on Transport & Sedimentation of Solid Particles, Sobota J. (editor), 4-7 September 2000, Wroclaw, Poland.

9. ESTIMATION OF THE RIVER SEDIMENT TRANSPORT IN OPEN CHANNELS FORMED WITH NON-COHESIVE AND SEMI-COHESIVE SOILS

Banasiak R., De Sutter R., Huygens M., Kasperek R., Mokwa M., Verhoeven R., Parzonka W.

Proceedings 10th International Conference on Transport & Sedimentation of Solid Particles, Sobota J. (editor), 4-7 September 2000, Wroclaw, Poland.

10. MEASUREMENT OF LOCAL CONCENTRATIONS OF FINE-GRAINED PARTICLES BY OPTICAL SENSORS

Glowski R., Parzonka W., Huygens M., De Sutter R.

Proceedings 10th International Conference on Transport & Sedimentation of Solid Particles, Sobota J. (editor), 4-7 September 2000, Wroclaw, Poland.

11. DEVELOPMENT OF A MANAGEMENT TOOL FOR THE EQUAL EVALUATION OF ECONOMIC, SOCIAL AND ECOLOGICAL EFFECTS OF ADAPTATION SCENARIOS FOR ATTENUATING THE EFFECTS OF CLIMATE CHANGE INDUCED FLOODING

De Smet, L., De Sutter.

IWA-conference "Watershed and river basin management", 4-5 September 2008, Budapest, Hungary.

12. INTELLIGENT DECISION SUPPORT SYSTEM BASED GEO-INFORMATION TECHNOLOGY AND SPATIAL PLANNING FOR SUSTAINABLE WATER MANAGEMENT IN FLANDERS, BELGIUM

H. Saleh, G. Allaert & R. De Sutter. W. Kellens, Ph. De Maeyer, W. Vanneuville.

Proceedings of the International Urban Water Conference, Heverlee, Belgium, 15-19 SEPTEMBER, 2008 Water and Urban Development Paradigms. ISBN: 978-0-415-48334-6.

13. CLIMATE CHANGE: THREAT OR OPPORTUNITY FOR BELGIAN SEA FISHERIES?

Vanderperren E., De Sutter R., Polet H.

International Conference on Climate Change, March 2009. Copenhagen, Denmark.

14. QUANTIFYING THE IN-CHANNEL RETENTION OF COHESIVE SEDIMENTS DURING CONTROLLED RESERVOIR RELEASES USING FTIR-DRIFT SPECTROMETRY.

Kurtenbach A., Gallé E., Bierl R., Buis K; De Sutter R., Troch P.; Eisold B., Symader W.

"2nd International conference HydroEco 2009", Vienna, Austria, 20.-23. April 2009.

15. EFFECTS OF CLIMATE CHANGE ON THE FLEMISH WATER SYSTEM (BELGIUM).

Ingle R. and De Sutter R.

IWA Young Specialist Conference, BeNeLux Regional Young Water Professionals Conference. 30 September - 2 October 2009. Eindhoven, the Netherlands

16. CLIMATE CHANGE AND SOCIO-ECONOMIC IMPACTS ON THE LONG TERM SEDIMENT BALANCE IN THE BELGIAN PART OF THE NORTH SEA.

De Sutter Renaat, Van Lancker Vera, Fettweis Michael, Van den Eynde Dries, Volckaert Annemie.

6th International SedNet conference : The Role of Sediments in Coastal Management. 7-8 October 2009, Hamburg, Germany.

17. ASSESSMENT OF THE SPATIAL IMPACTS OF CLIMATE CHANGE ON FLEMISH REGION OF BELGIUM.

Ingle R. and De Sutter R.

5th Aqua Congress, New Delhi, India. 16- 18 Nov, 2011.

Best presentation award.

(c2) oral presentation and abstract in proceedings of international scientific conferences

1. EROSION AND TRANSPORT OF COHESIVE MINERAL AND ORGANIC MIXTURES: A LABORATORY COMPARISON

De Sutter R., Huygens M., Verhoeven R., Rushforth P., Tait S., and Saul A.

Proceedings 8th Int. Symp. on the Interactions between Sediment and Water, p.14, Walling D., Chen J., Ni J. (editors), 13-17 September, 1999; Beijing, China, 14.

2. LABORATORY AND FIELD TESTING OF INFRARED TURBIDITY PROBES

De Sutter R., Kiekens F., Huygens M., Verhoeven R., and Remon J-P.

Proceedings 8th Int. Symp. on the Interactions between Sediment and Water, p.38, Walling D., Chen J., Ni J. (editors), 13-17 September, 1999; Beijing, China, 38.

3. QUANTIFYING THE IN-CHANNEL RETENTION OF COHESIVE SEDIMENTS DURING ARTIFICIAL FLOODS EVENTS USING FTIR-DRIFT SPECTROMETRY

A. Kurtenbach, T. Gallé, K. Buis, R. De Sutter, P. Troch, B. Eisold, R. Bierl, and W. Symader.

European Geosciences Union EGU General Assembly, Vienna, 4th of May, 2010.

4. DEVELOPING CLIMATE ADAPTATION STRATEGIES FOR FLANDERS.

De Sutter R.

International Conference "Deltas in time of Climate Change", 29 September - 1 October 2010, Rotterdam, the Netherlands.

(c3) oral presentation by co-author and abstract in proceedings of international scientific conferences

1. BED SHEAR STRESS GOVERNING EROSION ON COHESIVE MIXTURES

De Sutter R., Huygens M., and Verhoeven R.

Proceedings 28th IAHR Congress, Bergmann H., Krainer R., Breinhaelter H. (editors), 22-27 August, 1999; Graz, Austria.

2. MEASUREMENT OF LOCAL BED SHEAR STRESS IN COMBINED SEWERS

Oms C., Gromaire-Mertz M.C., Berry N., Ahyerre M., De Sutter R., Chebbo G.

Proceedings Urban Drainage Modelling Symposium (World Water Resources & Environmental Congress), Brashear R., Maskimov C. (editors), 20-24 May 2001; Orlando, USA.

3. VALIDATION OF EXISTING BED LOAD TRANSPORT FORMULAE USING IN-SEWER SEDIMENT

De Sutter R., Tait S., Chebbo G.

Proceedings Urban Drainage Modelling Symposium (World Water Resources & Environmental Congress), Brashear R., Maskimov C. (editors), 20-24 May 2001; Orlando, USA.

4. SYNTHESIS OF PRIMARY IMPACTS OF CLIMATE CHANGE IN BELGIUM, AS AN ONSET TO THE DEVELOPMENT OF AN ASSESSMENT TOOL FOR ADAPTATION MEASURES

Dewals B. J., De Sutter R., De Smet L., Pirotton M.

Proceedings EGU2007 conference. Geophysical Research Abstracts, Vol. 9, 11217, 2007
SRef-ID: 1607-7962/gra/EGU2007-A-11217 © European Geosciences Union 2007.

5. EVALUATION OF CLIMATE CHANGE IMPACTS AND ADAPTATION RESPONSES FOR MARINE ACTIVITIES: THE CLIMAR PROJECT.

Van den Eynde, D., R. De Sutter, J. Ozer, S. Ponsar, K. Van der Biest, E. Vanderperren, T.

Verwaest and A. Volckaert, 2008.

Abstract for the International Symposium on the Effects of Climate Change on the World's Oceans, May 19-23 2008, Gijón, Spain.

6. DREDGING WORKS IN THE WESTERSCHELDE TO DEEPEN THE NAVIGATION CHANNEL AND TO CREATE ECOLOGICALLY VALUABLE AREAS.

Sas M., De Sutter R., Beirinckx K., Aerts F.

CEDA Dredging Days, 10-11 November 2011, Rotterdam, The Netherlands.

(c4) oral presentation and poster on international scientific conferences

1. VELOCITY AND FRICTION CHARACTERISTICS IN UNSTEADY OPEN CHANNEL FLOW FOR A TEST FLUME WITH CIRCULAR CROSS-SECTION

De Sutter R., Huygens M., Verhoeven R.

Proceedings EWRA Conference on Operational Water Management, Refsgaard J., Karalis E. (editors), 3-6 September 1997, Copenhagen, Denmark. ISBN 90-5410-897-5.

2. CLIMATE CHANGE: THREAT OR OPPORTUNITY FOR BELGIAN SEA FISHERIES?

Vanderperren E., De Sutter R., Polet H.

abstract en poster VLIZ jongerendagen, 6th March 2009. Ostend, Belgium.

3. DEVELOPMENT AND EVALUATION OF LONG-TERM ADAPTATION STRATEGIES FOR THE BELGIAN SEA FISHERIES SECTOR.

Vanderperren Els, De Sutter Renaat, Polet Hans, Allaert Georges.

abstract en poster VLIZ jongerendagen, 27th Nov 2009. Ostend, Belgium.

4. DEVELOPMENT AND EVALUATION OF LONG-TERM ADAPTATION STRATEGIES FOR THE BELGIAN SEA FISHERIES SECTOR.

Vanderperren Els, De Sutter Renaat, Polet Hans, Allaert Georges. abstract en poster Doctoral Days Ghent University, 12th December 2009, Gent, Belgium.

5. CLIMAR: EVALUATION OF THE IMPACT OF CLIMATE CHANGE ON MARINE ACTIVITIES AND THE DEVELOPMENT OF AN INTEGRAL ADAPTATION POLICY, INCLUDING COASTAL FLOODING.

Van den Eynde D., De Sutter R., et al.
Poster session. Climate Change and Water : time to intensify efforts. International conference organized by Flemish government in the framework of the Belgian EU presidency. 23-24 November 2010.

6. ADAPT: TOWARDS AN INTEGRATED DECISION TOOL FOR ADAPTATION MEASURES AGAINST CLIMATE CHANGE INDUCED FLOODING.

Hecq W., De Sutter, R. et al.
Poster session. Climate Change and Water : time to intensify efforts. International conference organized by Flemish government in the framework of the Belgian EU presidency. 23-24 November 2010.

7. ENVIRONMENTAL REPORT FLANDERS 2030. CLIMATE CHANGE AND WATER.

Johan Brouwers, Bob Peeters, Patrick Willems, Pieter Deckers, Philippe De Maeyer, Renaat De Sutter, Wouter Vanneuville.

Poster session. Climate Change and Water : time to intensify efforts. International conference organized by Flemish government in the framework of the Belgian EU presidency. 23-24 November 2010.

8. CCASPAR.

Verhofstede B., Allaert G., De Sutter R., et al.

Poster session. Climate Change and Water : time to intensify efforts. International conference organized by Flemish government in the framework of the Belgian EU presidency. 23-24 November 2010.

9. ADAPT: TOWARDS AN INTEGRATED DECISION TOOL FOR ADAPTATION MEASURES AGAINST CLIMATE CHANGE INDUCED FLOODING.

Hecq W., De Sutter, R. et al.

Poster session. Klimaatverandering en Water. 8th Waterforum organized by the Commission for Integrated Water Management. 11 February 2011.

10. ENVIRONMENTAL REPORT FLANDERS 2030. CLIMATE CHANGE AND WATER.

Johan Brouwers, Bob Peeters, Patrick Willems, Pieter Deckers, Philippe De Maeyer, Renaat De Sutter, Wouter Vanneuville.

Klimaatverandering en Water. 8th Waterforum organized by the Commission for Integrated Water Management. 11 February 2011.

(c5) oral presentation and full papers in proceedings of national scientific conferences

1. VELOCITY AND FRICTION CHARACTERISTICS IN UNSTEADY OPEN CHANNEL FLOW FOR A CYLINDRICAL TEST FLUME

De Sutter R., Huygens M., Verhoeven R.

Proceedings 4th National Congress on Theoretical and Applied Mechanics, p. 401-404, Dick H., Hogge M., Sas P. et al. (editors), 22-23 May 1997, Leuven, Belgium.

2. INDUSTRIEEL WATERVERBRUIK IN VLAANDEREN

De Sutter R.

Proceswater in de industrie, Symposium KVIV, 19th November 2003, Antwerp.

3. PUBLIEKE PARTICIPATIE BIJ DE OPMAAK VAN BEKKENBEHEERPLANNEN

De Sutter R., Staes J., Meire P. (UA)

Conference "Participatie in het integraal waterbeleid", symposium leerstoel Integraal Waterbeheer, UIA, Antwerpen, 10th December 2004. Published in the journal Water, issue September - October 2005, 1-7.

4. WATERCONSUMPTIE, WATERBESCHIKBAARHEID EN WATEREXPLOITATIE-INDEX

De Sutter R., Van Tomme I., Degans H.

Proceedings conference "Watersysteemkennis, partim waterkwantiteit" organised by Coördinating Commission of Integrated Water Management - CIW, 12th October 2006,

Leuven, Belgium.

5. SOCIO-ECONOMIC ASPECTS OF THE GREEN PAPER ON MARITIME POLICY

Key-note speech & paper by Volckaert A. & De Sutter R. on the conference "State of the Art and Future of Belgian Coastal Research" organised by Bencore, 26th April 2007, Leuven, Belgium.

6. NAAR EEN GEÏNTEGREERDE EVALUATIE VAN AANPASSINGSMAATREGELEN TEGEN DOOR DE KLIMAATSVERANDERING GEÏNDUCEERDE OVERSTROMINGEN: HET VERHAAL VAN ADAPT

De Sutter R., De Smet L., Meire P., Hecq W., Pirotton L., Bachus K. et al.

Proceedings conference "Mensen & Watersysteem" organised by Coördinating Commission of Integrated Water Management - CIW, 31th May 2007, Antwerp, Belgium.

(c6) key-note speaker or invited expert on conference

1. Invited expert representing in the "workshop on coastal risk and climate change issues" organised by the European project "Safecoast", 28th March 2006 in Den Hague. Flemish partners in the project are Afdeling Kust en Waterbouwkundig Laboratorium Borgerhout. <http://www.safecoast.org/>.

2. Invited speaker on the Conference "water and climate change", 14-15 October 2008, Antwerp, Belgium., organised jointly by the Embassy of France & the "Leerstoel Integraal Waterbeheer Vlaanderen". Title: Can we measure social effects of climate change ? case floods - Adapt.

3. Key-note speaker on the International Conference "Deltas in time of Climate Change", 29 September - 1 October 2010, Rotterdam, the Netherlands. Title "Developing climate adaptation strategies for Flanders"

(c7) (co-)organiser of conferences

1. Water Framework Directive, symposium Koninklijke Vlaamse Ingenieursvereniging, 25 mei 2003, Antwerpen.

2. Environmental Impact of Floods, symposium Koninklijke Vlaamse Ingenieursvereniging, november 2004, Antwerpen.

3. Climate Change and Water : time to intensify efforts. International conference organized by Flemish government in the framework of the Belgian EU presidency. 23-24 November 2010. Member of Steering Group.

PROMOTOR OF PHD DISSERTATIONS

1. Ruchita Ingle, since 2007 - The influence of climate change on water management in Flanders.

2. Björn Verhofstede, since 2009 - member of doctoral commission.

PROMOTOR OF MASTER DISSERTATIONS

1. Niet-permanente stroming in een cirkelvormige testgoot: fysische modelstudie Christel De Jaeger, 1996. Begeleiding en leescommissie. Burgerlijk Bouwkundig Ingenieur, RUG.

2. Experimenteel onderzoek van sedimenttransport onder niet-permanente stromingscondities in een cirkelvormige goot Bart De Bruyckere & Koen Verthez, 1997. Begeleiding en leescommissie. Industrieel Ingenieur, KAHO.

3. Fundamenteel onderzoek naar turbiditeitsmeters als meettoestellen voor sedimentconcentratie Lief Vanspringel, 1998. Begeleiding en leescommissie. Burgerlijk Bouwkundig Ingenieur, RUG.

4. Experimenteel onderzoek van transport van riviersediment onder permanente stromingscondities in een cirkelvormige goot Wesley Bliki & Filip Coppens, 1999. Begeleiding en leescommissie. Industrieel Ingenieur, KAHO.

5. Fundamenteel onderzoek naar turbiditeitsmeters als meettoestellen voor sedimentconcentratie
Bernard Degraef, 1999. Begeleiding en leescommissie.
Industrieel Ingenieur, KAHO.
6. Het gebruik van IR turbiditeitsmeters ter begroting van gesuspendeerd sediment
Murielle Reins, 2000. Begeleiding en leescommissie.
Industrieel Ingenieur, KAHO.
7. De invloed van niet-permanente stromingscondities op het transport in het Zwalmbekken
Wouter Verhaegen, 2000. Begeleiding en leescommissie.
Industrieel Ingenieur, KAHO.
8. Erosie van rioolsediment in niet-permanent regime.
Stoffel Van Schylenberghe en Steven Presiaux, 2001. Begeleiding en leescommissie.
Industrieel Ingenieur, KAHO.
9. Regenwaterrecuperatie bij Barry Callebaut.
Sven De Smet, 2002. Leescommissie.
Gespecialiseerde Studies Milieudeskundige, VUB.
10. Erosie van rioolsediment
Dimitri De Wolf, Wouter Wille, 2002. Begeleiding bij proeven.
Industrieel Ingenieur, KAHO.
11. Erosie van rioolsediment
Vranckx Jimmy, 2005. Leescommissie
Burgerlijk Bouwkundig Ingenieur, UGent.
12. Erosiebestrijding in West-Vlaanderen.
Joyce De Cokere, 2005. Begeleiding en leescommissie.
Graduaat Chemie optie milieuzorg, CTL Hogeschool, Gent.
13. Ecologische visievorming van de Gaverbeek.
Tom Van den Abeele, 2005. Begeleiding en leescommissie.
Provinciale Hogeschool Limburg, Departement Biotechniek.
14. Strategic evaluation on Environment & Risk Prevention under Structural and Cohesion Funds for 2007-2013
Annelies Verwee, 2006. Begeleiding en leescommissie.
Master in International Business, VLEKHO (Brussel)
15. Plan Pluie Bruxelles: case-study London.
Benedicte Berrewaerts, 2006. Begeleiding en leescommissie.
Faculté des Sciences économiques, sociales et de gestion, FUNDP Facultés Universitaires Notre-Dame de la Paix (Namur, Belgique).
16. Ruimte voor duurzame drinkwaterwinningen.
Ilse Claessens, 2006-2007. Begeleiding. Promotor Prof. Dr. G. Allaert.
GAS Ruimtelijke planning
17. Stromingspatronen rond en tussen planten.
Maarten Deneckere, 2008.
Burgerlijk Ingenieur Bouwkunde(commisaris).
18. Klimaatsverandering aan onze kust: zegen of gesel?
Stijn Vandousselaere, 2008.
Burgerlijk Ingenieur Bouwkunde.
19. Maatregelen ter beperking van overstromingen, geïnduceerd door klimaatsveranderingen, in het Denderbekken.
Line Rigo, 2008.
Burgerlijk Ingenieur Bouwkunde.
20. Klimaatverandering en duurzame bedrijventerreinen: onderzoek naar mogelijke

aanpassingsstrategieën.

Charl De Cock, 2008.

Master na Master in de Milieuwetenschappen - en Technologieën

21. Ruimte voor water, onderzoek naar de mogelijkheden voor ruimtelijke planning, case Lokeren.

Dimitri Vermeire, 2008. Leescommissie.

Master in de Stedebouw en Ruimtelijke planning.

22. Klimaatsverandering in Vlaanderen: Ruimtelijk geografische effecten en aanpassingsmogelijkheden toegepast op een deelbekken van het Denderbekken/Bovenschedebekken

Tim Speleers, 2009.

Master in de Stedebouw en Ruimtelijke planning.

23. Ruimtelijke uitdagingen voor de drinkwaterwinning binnen een veranderend klimaat. Jelle Van Daele, 2009.

Master na Master in de Milieuwetenschappen - en Technologieën

24. De watertoets : analyse van het instrument.

Jan Camerlinck, 2009.

Master Ingenieurswetenschappen, Bouwkunde.

25. Klimaatsverandering in Vlaanderen : gevalstudie Kempen.

Anke Herremans, 2010.

Master Ingenieurswetenschappen, Bouwkunde.

26. Klimaatsverandering in Vlaanderen : gevalstudie Kustvlakte.

Barbara Vansompel, 2010.

Master Ingenieurswetenschappen, Bouwkunde.

27. Gevolgen van baggeractiviteiten voor het milieu.

Mattias Abrams, 2010.

Master na Master in de Milieuwetenschappen - en Technologieën

28. Onderzoek naar de hydrologische impact van klimaatverandering op de droogte in het Netebekken.

Tom Schockaert, 2011

Master na Master in de Milieuwetenschappen - en Technologieën

29. Comparison of hydrological models to assess the impacts of climate change : Flanders and India

Nawa, 2011.

Master after Master Technology for Integrated Water Management.

30. Impact of dredging activities on marine ecology.

Roos Carpentier, 2011

Master after Master Technology for Integrated Water Management.

31. The relationship between hydrology and natural spatial scenario's in the Nete basin. Thijs van der Meeren, 2011

Master after Master Technology for Integrated Water Management.

31. Wat betekent klimaatwijziging voor de haven van Antwerpen? De waterkwantiteit.

Koen Staes, 2011.

Master in de Milieuwetenschappen, UA, Leescommissie.

32. Begroting van de impact van het hydrodynamische scheepsgolfgedrag op het sedimentbudget van een natuurvriendelijke oever.

Lisa Vanhaute; 2011.

Master Ingenieurswetenschappen, Bouwkunde. Leescommissie.

33. Planning for climate change: strategieën voor mitigatie en adaptatie vanuit ruimtelijke planning.

Wouter Leus, 2011.

Master in Ruimtelijke Planning en Stedebouw. Begeleidingscommissie en leescommissie.

34. De hydrologische cyclus in de Belgische kustzone en polders.

Karel van den Berghe, 2012.

Universiteit Gent. Master in de Geografie. Promotor.

35. Offline detectie van spoorvorming bij een sleepopperzuiger.

Michiel Degezelle, 2012.

KAHO. Voorzitter van de Jury.

36. Opstellen model ter bepaling van grondbalans en verliezen op een baggerstort.

Jelle Devlieger, 2012.

KAHO. Voorzitter van de Jury.

37. Literatuurstudie over liquefaction.

Friendly Bramanta, 2012.

KAHO. Voorzitter van de Jury.

PROFESSIONAL ASSOCIATIONS

Memberships of:

(d1) scientific organisations

- Belgian representant in IWA (International Water Association), specialist group “Climate Change and adaptation” (2005 - 2010)
- Representant for B-IWA (Belgian branch of the International Water Association) in the EWA (European Water Association) specialist group “Climate change and water management” (2006 - 2010)

(d2) professional and other organisations

- KVIV (Royal Flemish Engineering Society), member since 1995
- KVIV-MILI, member Environmental Technology Group KVIV (2002 - 2008)
- B-IWA (Belgian International Water Association), member (2002 - 2010), member Board of Council (2004 - 2010).
- ORI (Organisation of Engineering Consultancy), member Group Integrated Water Management, since 2001.
- MINA-raad (Communal Environmental & Nature Board) Destelbergen, expert member 2002-2006, political representee since 2007.
- IVAGO (communal waste management company Gent-Destelbergen), member Board of Council since 2007.

PROJECTS

Previous occupations (2000 - 2011)

A) Hydraulic engineering

- Flemish Coastal Safety Plan, expert revision of ecological consequences of beach nourishment (Flemish Coastal Division, 2011).
- Flexible Dredging in the Westerscheldt (2010-2011), for the Flemish and Dutch government.
- Hydraulic - morphological study and EIA for the deepening of the North Sea terminal (Antwerp Harbour Authority, 2009-2011),
- Analysis of the sedimentation of fines within the reclamation area of Antifer harbour (Gaz de Normandie and Port Autonome du Havre. 2009),
- Social Cost-Benefit Analysis for the sluice complexes on the Kempish canals (De Scheepvaart, 2007-2009).
- Hydrodynamic design and ecological effect prediction of a cold water spill in the harbour of Zeebrugge for the exploitation of a LNG heat exchange ORV-installation (Fluxys NV, 2007-2008).
- Environmental test of the project “increase of maritime accessibility of the canal Gent-Terneuzen (Proses, 2007-2008).
- Design of environmental friendly measures on the River Marke (Flemish Environmental Company, 2006-2008).
- Design of anti-soil erosion infrastructural measures (different municipalities,

2006-2008).

- Multi-functional (technical, environmental) design of flooding areas of the Neerpedebeek, for the Province of Flemish-Brabant (2005-2006).
- ISPA application for the waste water collection and treatment for the city of Constanta, Romania (DG Environment, 2005-2006).
- Restoration projects of the rivers 's Hertogendijkse Beek & Hanswijkbeek (province Antwerp, 2007-2008 & 2008-2009); Gaverbeek, Handzamevaart, Heidebeek (province West-Flanders, 2003-2007).
- Influence of the Program of Measures for the extension and amelioration of the sewerage and water treatment infrastructure on the water quality in the city of Karlovy Vary, Czech Republic (Flemish Government, 2002-2003).

B) Integrated water management

- Methodology for social flood risk assessment (Flemish Hydraulic Laboratory, 2011).
- Building blocks for the Flemish climate change adaptation plan (2010), funded by the Flemish government.
- Ccaspar Climate Changes and Changes in Spatial Structures, research project funded by the Flemish Institute for Science and Technology (2009-2012).
- Scientific report on "climate change and water" (Flemish Environmental Company, MIRA-team, 2009).
- CPA Climate Proof Areas (EU-Interreg, 2008-2011); in collaboration with 15 partners from Sweden, the Netherlands, UK, Germany.
- Capacity building aimed at the development of a Pilot Programme of measures for the Black Sea River basin management plan of coastal water bodies at risk - Bourgas bay and Varna bay (collaboration between Flemish Government and Bulgaria, 2008-2009).
- CLIMAR: Evaluation of the impact of climate change on marine activities and the development of an integral adaptation policy, including coastal flooding (Research project in collaboration with 4 universities, funded by Federal Science Policy, 2006-2011).
- Implementation of the Water Framework Directive: administrative and technical assistance in the framework of the Art. 5 reporting (expert for the European Commission, 2006-2009).
- River Basin Management Plan of the Meuse and of the Demer, partim Action Plan (Flemish government, 2006).
- ADAPT: towards an integrated decision tool for adaptation measures against climate change induced flooding (Research project in collaboration with 4 universities, funded by Federal Science Policy, 2005-2009).
- Evaluation of the influence of land based activities in Bulgaria on the state of marine and coastal environment, ecosystems and biodiversity in the Black Sea (collaboration between Flemish Government and Bulgaria, 2005-2007).
- Integrated River Basin Management planning on sub-basin level: sub-basins of 'Land van Waas', 'Kanaal van Stekene', Moervaart' (province of East-Flanders, Belgium, 2003 - 2006).
- Method for the determination of a cost-efficient Program of Measures in the river basin management plans of Latvia, with application for the Daugava basin (collaboration between Flanders & Latvia, 2003 - 2005).
- Methodique pour la gestion intégrée des ressources en eau pour le premier bassin en Algérie, le Mazafran et organisation de la gestion intégrée des ressources en eau en Algérie (pour la Ministère de l'Eau en Algérie et subventionné par la Ministère Belge de la coopération au développement, 2003 - 2004) (in French).
- Environmental cost Model for Surface Water Pollution, in the framework of the Economic elements of the Water Framework Directive (Flemish government, 2003).
- Method for problem analysis and development of vision in the framework of River basin management planning + application on the first basin in Flanders : Nete basin (Flemish Government department Water, 2002-2004).

- Prognosis of water use in Flanders until 2020 (Flemish Government department water, 2001-2002).

C) River & coastal hydraulics and morphology

- Water bottom research: standard procedure for quality investigation (Flemish Government, OVAM, 2011-2012)
- Climate change effects on the hydraulic behavior of the Meuse (Flemish Hydraulic Laboratory, 2010-2011).
- Development of a Flemish-Belgium numerical model tool for the North Sea harbours (Flemish Authority, department of Coastal Access, 2009-now).
- MICORE (Scientific European FP7 project) Review of climate change impacts on storm occurrence (2009-2011).
- Amelioration and exploitation of tools for sediment data (Verbetering en exploitatie modelinstrumentarium: dataverwerking sediment (Flemish Hydraulic Laboratory, 2009-2011).
- Study on the possibilities of market development of dredged material (Flemish Government, department of Environment, ALBON, 2009-2010).
- Environmental Impact Assessment of sand dumping and sand dredging in the River Scheldt (Flemish Government, 2007-2008).
- Soil erosion plans (problem analysis and design of infrastructural measures) for more than 25 municipalities in Flanders (2002-2008).
- Environmental Impact Assessment of sand dredging in the Belgian Sea (Flemish Government, Coastal Department, 2002-2003).
- Sediment transport budget of the River Demer (Flemish Government, 2002).
- 2 International collaboration projects on sediment erosion and transport: 1997-2000 Bilateral EC project Poland - Flanders; British Council project Bilateral cooperation Belgium - UK, 1998-2000).
- Fundamental research project on the erosion and transport of partly cohesive mixtures in unsteady flow conditions, in rivers and in sewers (funded by the Flemish Research Council, 1996-2000, leading to my PhD-thesis).

D) Environmental impact assessment & ecohydraulics

- Concession demands for 4 windmill farms in France, partim hydraulics and morphology; (GDFSuez - Vinci, 2011).
- EIA for the harbour project OKF in Nigeria (Rent-a-Port, 2010-2011).
- Second opinion EIA gas terminal Mexico (2010), for the Belgian Credit Insurance Agency (ONDD Delcredere).
- Environmental Impact assessment for sand extraction on the North Sea (2010), for the Flemish government.
- Second opinion EIA port extension Lomé, Togo (2009-2010), for a container terminal builder.
- Environmental Impact assessment for the deepening of the North Sea terminal (2009-2010), for the harbor of Antwerp, Belgium.
- Strategic evaluation on Environment and Risk Prevention under Structural and Cohesion Funds for 2007-2013 (investments in flooding protection, waste water treatment, drinking water provision, ...), (European Commission - DG Regional Policy, 2005-2006).
- Accidental Water Pollution Control: Watershed Contingency Planning, Hungary (CFCU Hungary, 2004-2006).
- PTA-expert Fifth Framework. Lot 31 Water Quality (European Commission, 2002).
- 6 Environmental Impact Assessments for the building of an off-shore wind mill park in Belgium: projects on the Droogte van Schooneveld (Total Fina Eolia, 2001), Thorntonbank (C-Power, 2002); Bank zonder Naam (Eldepasco, 2006), Bligh Bank (Belwind, 2007), Blue4Power (2010), Rentel (2011).

Antea Group

2012

- Water bottom research: standard procedure extension on risk for physical transport (Flemish Government, OVAM, 2011-2012), in collaboration with Arcadis
- Integrated management of water and other natural resources in Africa – AFROMAISON (EU 7FP project)
- Envirogrids – Building Capacity for a Black Sea Basin Observation and Assessment System supporting sustainable development (EU 7FP)
- Twin2Go – Coordinating twinning partnerships towards more adaptive governance in river basins (EU 7FP)
- Building capacities for effective flood risk management in the Ukrainian part of the Danube delta
- PREEMPT: Policy-relevant assessment of socio-economic effects of droughts and floods
- WeTwin – Enhancing the role of wetlands in integrated water resources management for twinned river basins in EU, Africa and South-America (EU 7FP)
- Hydrodynamic analysis and sewer system modelling Olsene/Machelen inclusive of set-up of a database for Zulte/Olsene/Machelen (97ZU05)
- Database set-up, modelling of existing situation and planning of the sewage system and wastewater collection in the municipalities Zoutleeuw, Landen and Steenokkerzeel
- Design calculation of the sewer system in the framework of the optimisation of the overflow of the Slachthuisstraat in Mol (for Aquafin)
- Design calculation of the sewer system of the N70 in Melsele (for the municipality of Beveren)
- Hydrodynamic modelling analysis of the sewer system Opgrimbie (Maasmechelen) in the framework of an optimization of the water distribution / buffering (206LN01) (for Aquafin/Infrac)
- Hydrodynamic modelling analysis of the sewer system of Zele (99ZE01) in the framework of the connection Avermaet (for Aquafin)
- Rain water management and urban drainage for the city of Bordeaux for SAUR, together with Antea France.
- Inventory and modelling of the Infrac sewage system and water collection infrastructure (rain and waste water) in the areas Grobbendonk, Beveren-Leie, Harelbeke, Vosselaar and Beerse
- Sewer system modelling in the operational sanitation area of Zoutleeuw (extension) (99ZL05)
- Délégation de services public de l'assainissement collectif de la CUB
Volet 2 : Modélisation des réseaux d'assainissement unitaires et eaux pluviales et exploitation pour la gestion dynamique
Volet 2.1 : Audit de la modélisation et du système de gestion dynamique du BV Louis Fargue
Volet 2.1 : Modélisation et analyse de la faisabilité de gestion dynamique sur le BV Clos de Hilde
- Sewer system modelling Baasrode/ Dendermonde, Hydronaut procedure (for Aquafin)
- Hydrodynamic modelling analysis of the sewer system Booiebos - Drongen/Gent (203NV02) in the framework of the disconnecting of industrial zone Booiebos (Drongen-Gent) (for Aquafin/TMVW)
- Hydrodynamic modelling analysis of the sewer system Lochristi (200LK04) (K. Albertlaan) - update hydrodynamic model (design planned situation) (for Aquafin)
- Hydrodynamic modelling analysis of the sewer system of Hoogstraten (95HO01) (for Aquafin)
- Hydrodynamic modelling analysis of the sewer system of Sint-Gillis-Waas (203SK01) in the framework of the design of a trunk sewer in the Zandstraat (for Aquafin).
- Hydrodynamic modelling analysis of the sewer system of Kortrijk/Harelbeke (200HR09) (for Aquafin)
- Survey in the framework of a database set-up of the sewage water system of the

- municipality of Hoogstraten (for Pidpa)
- Hydrodynamic modelling analysis of the sewer system of Ninove, Roosdaal and Geraardsbergen (for Aquafin and the municipalities of Roosdaal, Geraardsbergen and Ninove)
- Verification calculation in the framework of the disconnection of the Viander in Tienen (for Jan De Nul)
- Framework contract for ecological studies in Antwerp: Havanstraat, Oude Landen (for the City of Antwerp)
- Research, assessment and targets for a park management plan of the Maaltebruggepark in Ghent, Roelandpark (for the City of Ghent)
- Environmental Impact Assessments for the building of an off-shore wind mill park on the Belgian Continental Shelf for Rentel (for DEME)
- Ecohydrological study of the Moervaart and Kalevallei in function of development of robust natural centres in the Port of Ghent (for the Flemish Government)
- Set-up, development and exploration of detailed flood modelling tools (for Flanders Hydraulics Research, Flemish Government)
- Uncertainty, sensitivity and stability analysis of hydrological, hydraulic and GIS modelling (for Flanders Hydraulics Research, Flemish Government)
- Groundwater modelling for the natural development of the Opstalvallei area including an environmental impact study (for the Flemish Government)
- Development of a numerical modelling tool for the water management on the Left Bank of the Scheldt River – phase 1: data collection and conceptual model (for VMM, Flemish Government)
- Elaboration and application of a methodology to define transient groundwater supply for groundwater modelling (for VMM, Flemish Government)
- External impact assessment of dredging in the Deurganckdok (2012-2014) (for the Department of Maritime Access)
- Study on effects of dredging on sediment transport in the Rhine river (pour le le Port Autonome de Strasbourg, together with Antea France)
- Natural restoration study of the upstream part of the Vuilbeek in Woluwe (for Flemish Land Agency)
- Technical scientific support on coastal morphology - Vlaamse Baaien (for Flanders Hydraulics Research, Flemish Government)
- Assistance with the development of a test programme and the exploitation of a Slib Test Tank at Flanders Hydraulic Research (for Flanders Hydraulics Research, Flemish Government)
- Optimisation of dredging activities in the maritime access channels towards the Flemish coastal harbours and the Scheldt mouth (for Flanders Hydraulics Research, Flemish Government)
- Technical operational assistance: SUSCOD - Physical scale modelling wave overtopping and seadike failure (for Flanders Hydraulics Research, Flemish Government)
- Description of morfodynamics of the Graafsche Raam (in collaboration with Oranjewoud)
- River management plan for the municipality of Zwevegem (for Aquafin)
- Reporting and co-ordination in the framework of European projects, i.c. "Bringing Land and Sea Together" (Interreg IVb BLAST) and "Sustainable Coastal Development" (Interreg IVb SUSCOD) (for the Flemish Government, Maritime and Coastal Services Agency)
- Hydrodynamic modelling analysis of the sewer system of Messelbroek (99ME05) (for Aquafin)
- Expert advice on water management policy questions (for Waterwegen en Zeekanaal nv, afdeling Bovenschelde)
- Set-up of a sewer system database for the municipality of Zulte (for Aquafin)
- Hydrodynamic modelling analysis of the sewer system of Nevele (203NV02) (for Aquafin)
- Development of an appropriate water quality management tool for the second generation of water management plans for Flanders according to the European

Water Framework Directive (for VMM, Flemish Government)

- Rural development project Groenhove-Vrijgeweid: Surface water quantity modelling for the Velddambeek and the Ringbeek (for VLM, Flemish Government)
- De Zetten - water management plan / hydrological modelling (for Topographos)
- Study for the elimination of effluent discharge (for Kesteleyn)

Study to eliminate rainwater from the sewer system at the Total Schoten site (for Total)