



# LeAF Publication list

2005-2016



Ref: LeAF internal  
Wageningen  
9 April 2015

Title: LeAF Publication list  
Status: published  
Date: 16-11-2016  
Number of pages: 14

LeAF B.V.  
P.O. Box 500  
6700 AM Wageningen  
+31 (0)317 484208  
info@leaf-wageningen.nl  
<http://www.leaf-wageningen.nl>

---

## Table of Contents

1. Publically available reports.....	2
2. Articles .....	5
3. Conference contributions .....	9
4. Other (book chapters, websites, etc) .....	12

## 1. Publically available reports

### 2013

Timmerman, M. ; Eekert, M. ; Riel, J.W. van; Schuman, E. (2013)  
Korte verblijftijd haalbaar bij mestvergisting  
V-focus 10 (2013)6. - p. 42 - 43.

Thoden van Velzen, E.U.; Weijma, J.; Sukkel, W.; Vader, J.; Reinhard, A.J.; Oliemans, W.J.  
(2013) Handelingsperspectief circulaire economie Amsterdam, gezamenlijke  
oplossingen en kansen voor betere kringloopsluiting in Metropoolregio Amsterdam  
(MRA) : factsheets bij het visiedocument. LEI, 2013

### 2012

Eekert, M.H.A. van; Weijma, J. ; Verdoes, N. ; Buisonje, F.E. de; Reitsma, B.A.H. ; Bulk, J. van  
den (2012) Explorative research on innovative nitrogen recovery. STOWA rapportnr.  
2012-51

Bisschops, I. ; Timmerman, M. ; Weijma, J. ; Eekert, M.H.A. van; Buisonjé, F.E. de; Spanjers,  
H. (2012) Synergie RWZI en mestverwerking. STOWA, 2012 (2011-10 ) - p. 92

### 2010

Bisschops, I., van Eekert, M., Rossum, F., Wilschut, M., van der Spoel, H. (2010) Betuwse  
Kunstmest. Winning van stikstof en fosfaat uit urine. STOWA rapportnr. 2010-30.

Wortmann, E., Kujawa-Roeleveld, K., Zeeman, G., van Erp Taalman Kip, C., van Betuw, W.,  
van Voorthuizen, E., Meulman, B., Elzinga, N. (2010) Nieuwe Sanitatie Westland,  
STOWA rapportnr. 2010-10.

### 2009

Kujawa-Roeleveld K., Grotenhuis T., Kragic Kok D., Schuman E., Jacobi J., Mels A., Zeeman  
G. (2009) Sorption and biodegradation of pharmaceutical compounds in soil -  
Application of urine as a natural fertiliser for energy crops. STOWA project 'Anderen -  
Anders Plassen'.

Kujawa-Roeleveld K., Zhang J., Mels A., Jacobi J. (2009) Sorption and oxidation of selected  
pharmaceutical compounds from separately collected human urine. Case: Sleen, De  
Schoel, separated collection of urine from a point source and treatment for removal of  
pharmaceutical compounds. STOWA project 'Sleen - De Schoel'.

Timmerman M., van Riel J.W., Bisschops I., van Eekert, M. (2009) Optimaliseren van  
mestvergisting. Animal Sciences Group, Wageningen UR

Wortel N.C., Koetse E., Kujawa-Roeleveld K. (2009) Zuiveren van brongescheiden urine - Verwijdering van medicatie en hormoonverstorende activiteit. STOWA project 'Sleen - De Schoel'.

## 2008

Bisschops I., van Eekert M. (2008) Inventarisatie van het risico van transmissie van pathogenen uit biogas - Van biogas naar Groen Gas. In opdracht van SenterNovem.  
→ This report (with English summary) is freely accessible at: [http://www.rvo.nl/sites/default/files/bijlagen/Inventarisatie van het risico van transmissie van pathogenen uit biogas - Van biogas naar Groen Gas.pdf](http://www.rvo.nl/sites/default/files/bijlagen/Inventarisatie%20van%20het%20risico%20van%20transmissie%20van%20pathogenen%20uit%20biogas%20-%20Van%20biogas%20naar%20Groen%20Gas.pdf)

Mels A. (2008) Nieuwe Nuts: Duurzaam ontlasten – Naar lokaal gebruik van afvalwater. In opdracht van InnovatieNetwerk.  
→ This report is freely accessible at: <http://www.innovatienetwerk.org/nl/bibliotheek/>

Mels A., Bisschops I., Swart B. (2008) Zware metalen in meststoffen: vergelijking van urine en zwart water met in Nederland toegepaste meststoffen. In opdracht van STOWA.

## 2006

van Nieuwenhuijzen A.F., Mels A.R., Brandt C.E., Piekema P., Ottenhoff E.C. (2006) Geavanceerde voorzuivering van afvalwater; praktijktoepassing op de RWZI Amstelveen, STOWA-rapport 2006-13, Utrecht.  
→ See <http://www.stowa.nl/> for downloading or ordering of the report.

Mels A., Swart B., Zeeman G. (2006) Quicksan knelpunten bij praktische toepassing van DESAH initiatieven, In: Anders omgaan met huishoudelijk afvalwater, STOWA-rapport 2006-18, Utrecht, p. 45-63.  
→ See <http://www.stowa.nl/> for downloading or ordering of the report.

## 2005

Mels A., Kujawa K., Wilsenach J., Palsma B., Zeeman G., van Loosdrecht M. (2005). Afvalwaterketen ontketend, Perspectieven voor afvalwatertransport en -zuivering in de 21ste eeuw. STOWA-rapport 2005-12, Utrecht.  
→ See <http://www.stowa.nl/> for downloading or ordering of the report.

Mels A., Zeeman G., Bisschops I. (2005). Brongerichte inzameling en lokale behandeling van afvalwater: praktijkvoorbeelden in Nederland, Duitsland en Zweden, STOWA-rapport 2005-13, Utrecht.  
→ See <http://www.stowa.nl/> for downloading or ordering of the report.

Mels A., Martijn E.J., Kampf R., Claassen T. (2005). Waterharmonica in the Developing World. STOWA-rapport 2005-21, Utrecht.  
→ See <http://www.waterharmonica.nl/> for downloading and <http://www.stowa.nl/> for downloading or ordering of the report.

Reith J.H., Deurwaarders E.P., Hemmes K., Curvers A.P.W.M., Kamermans P., Brandenburg W., Zeeman G. (2005). Bio-offshore: Grootschalige teelt van zeevieren in combinatie met offshore windparken in de Noordzee. ECN-C--05-008

→ See <http://www.ecn.nl/library/index.html> for downloading of the report.

Spanjers H. (2005) Chapter 6: Treatment scenarios. In: Optimal management of wastewater systems. Report European cooperation in the field of scientific and technical research – Environment, COST Action 624, EUR 21522, ISBN 92-898-0006-2.

→ See <http://bookshop.eu.int/> for downloading of the report.

Wortmann E., Van Andel N., Kristinsson J., Mels A., Zeeman G., De Wilt J. (2005). Zonneterp, een grootschalig zonproject. Innovatienetwerk Groene Ruimte en Agrocluster, Rapportnr. 05.2.101, Utrecht.

→ See <http://www.zonneterp.nl/> and <http://www.agro.nl/innovatienetwerk/> for downloading of the report.

## 2. Articles

### 2016

Wielemaker J.C ;Weijma, J. ; Zeeman, G. (2016) Harvest to harvest: Recovering nutrients with New Sanitationsystems for reuse in Urban Agriculture.

→ See <http://www.sciencedirect.com/science/article/pii/S0921344916302488> for downloading the report.

### 2011

Schram, E. ; Eekert, M.H.A. van; Schuman, E. ; Swinkels, W. (2011) Grondsmaak in kweekvis deel 2 Aquacultuur 26 (3) p. 29 - 36.

Bisschops, I.; Timmerman, M.; Weijma, J.; Man, A. de; (2011) Mogelijkheden tot synergie door mestverwerking op een rioolwaterzuiveringsinstallatie. H twee O : tijdschrift voor watervoorziening en afvalwaterbehandeling.

Timmerman, M.; Weijma, J.; Bisschops, I.; (2011) Mest verwerkt bij rioolwaterzuiveraar. V-focus : vakblad voor adviseurs in de dierlijke sector.

Eekert, M.H.A. van; Dooren, H.J.C. van; Lexmond, M.J. ; Zeeman, G. (2010) Wastewater and Manure. In: Methane and Climate Change / Reay, D., Smith, P., Amstel, A. van, London : Earthscan, 2010 - p. 151 - 174.

### 2010

Kujawa-Roeleveld, K., Sinnema, K., Heideveld, M., van Heerde, S., Overbeek, A. (2010) Sustainability Research in South Africa, Water 21: Dec 2010.

Nzila, C., Dewulf, J., Spanjers, H., Kiriamiti, H., van Langenhove, H. (2010) Biowaste energy potential in Kenya, Renewable Energy 35:2698-2794

Taş, N., Heilig, H. G. H. J., van Eekert, M. H. A., Schraa, G., De Vos, W. M. and Smidt, H. (2010) Concurrent hexachlorobenzene and chloroethene transformation by endogenous dechlorinating microorganisms in the Ebro River sediment, FEMS Microbiology Ecology 74:682-692.

Taş, N., van Eekert, M. H. A., de Vos, W. M. and Smidt, H. (2010) The little bacteria that can – Diversity, genomics and ecophysiology of 'Dehalococcoides' spp. in contaminated environments. Microbial Biotechnology 3:389-402.

Weelink, S. A. B., van Eekert, M. H. A. and Stams, A. J. M. (2010) Degradation of BTEX by anaerobic bacteria: Physiology and application. Reviews in Environmental Science and Biotechnology 9:359-385.

### 2009

Okutman Tas D., Karahan Ö, Insel G., Övez S., Orhon D. and Spanjers H. (2009) Biodegradability and denitrification potential of settleable COD in domestic sewage. *Water Environ. Res.*, 81, 715-727.

Taş N., van Eekert M.H.A, Schraa G., Zhou J., de Vos W.M., and Smidt H.. (2009) Tracking functional Guilds: Dehalococcoides spp. in European River basins contaminated with hexachlorobenzene. *Applied and Environmental Microbiology*: 75(14): 4696-4704

Taş N., van Eekert M.H.A, de Vos W.M., and Smidt H. (2009) The Little Bacteria that Can – Diversity, Genomics and Ecophysiology of "Dehalococcoides" spp. in Contaminated Environments. *Microbial Biotechnology*: doi:10.1111/j.1751-7915.2009.00147.x.

Warmenhoven J.W. and Spanjers H. (2009). TOC based control of anaerobic reactor treating wastewater from a fruit juice packaging factory. Accepted for *Wat. Sci. Tech.*

## 2008

Maas R.H.W., Bakker R.R., Boersma A.R., Bisschops I., Pels J.R., de Jong E., Weusthuis R.A., Reith H. (2008) Pilot-scale conversion of lime-treated wheat straw into bioethanol: quality assessment of bioethanol and valorization of side streams by anaerobic digestion and combustion. *Biotechnology for Biofuels* 1:14.

→ The article is freely accessible at: <http://www.biotechnologyforbiofuels.com>

Nielsen A.M., Spanjers H., Volcke E.I.P. (2008) Calculating pH in pig manure taking into account ionic strength. *Water Science & Technology* 57 (11) p. 1785-1790

van Lier J.B. (2008) High-rate anaerobic wastewater treatment: diversifying from end-of-the-pipe treatment to resource-oriented conversion techniques. *Water Science & Technology* 57 (8) p. 1137-1148

Zeeman G., Kujawa K., de Mes T., Hernandez L., de Graaff M., Abu-Ghunmi L., Mels A., Meulman B., Temmink H., Buisman C., Lier J., Lettinga G. (2008) Anaerobic treatment as a core technology for energy, nutrients and water recovery from source-separated domestic waste(water). *Water Science & Technology* 57 (8) p. 1207-1212

Van Vliet B., van Eekert M., Zeeman G., Mels A. (2008) Verslag van de 'Sanitation Challenge': an international conference on new sanitation concepts and models of governance. *Afvalwaterwetenschap* 7 (3) p. 200-2003

Van Vliet B., van Eekert M., Zeeman G., Mels A. (2008) Sanitation Challenge 2008: voorbij de heilige huisjes? *H2O* 41 (13) p. 20-21

## 2007

Mels A., Telkamp P., Koetse E., Braadbaart O. (2007) Praktijkervaringen met zwart- en grijswatersystemen in Noorwegen en Duitsland, *H2O* / 10, 25-28



Mels A., Jacobi J., Seghezzo L., Bijlmakers L., de Hoog J., Anten M. (2007) Nederlandse hulp voor waterproblemen in Matagalpa, H2O / 16, 26-17

Van Lier J.B. (2007) Agrarisch hergebruik van gezuiverde effluenten. SPIL 239-240: 25-28.

Van Lier J.B. (2007) Water en grondstoffen terugwinnen met anaerobe zuivering; is de historische veronachtzaming volleig achterhaald? SPIL 237-238: 23-26.

Van Lier J.B. (2007) Duurzaam omgaan met een essentiële 'grondstof in overvloed'; meervoudig watergebruik op de waterplaneet. SPIL 233-234: 9-14.

## 2006

Bisschops I., Spanjers H., Keesman K. (2006) Automatic detection of exogenous respiration end-point using artificial neural network, *Water Science and Technology*, 53 (4-5), 273-281

→ Also published last year in conference proceedings of 2<sup>nd</sup> IWA ICA Conference, Busan, Korea, 2005

Huibers F.P., Seghezzo L., Mels A. (2006) Wastewater and irrigated agriculture, lessons learnt and possible applications in Africa, African Technology Policy Studies Network, Nairobi, Kenya. ATPS Special Paper Series 23.

→ See <http://www.atpsnet.org/> for downloading or ordering of the article.

Mels, A., van Andel N., Kristinsson J., Wortmann E., Oei P., de Wilt J., Lettinga G., Zeeman G. (2006) Zonneterp voorziet decentraal in alle nutsfuncties, *Spil* 229-230, 2006 no. 5, 12-18

→ See <http://www.platteland-in-perspectief.nl/> for downloading or ordering of the article.

Mels A., Zeeman G., Kujawa-Roeleveld K., Palsma B., Swart B. (2006) De keten verandert, langzaam maar zeker!, *Afvalwaterwetenschap* 5, 43-47

Spanjers H., Bouvier J.-C., Steenweg P., Bisschops I, van Gils W. and Versprille B. (2006) Implementation of in-line infrared monitor in full-scale anaerobic digestion process, *Water Science and Technology*, 53 (4-5), 55-61

→ Also published last year in conference proceedings of 2<sup>nd</sup> IWA ICA Conference, Busan, Korea, 2005

Spanjers H., van Lier J.B. (2006) Instrumentation in anaerobic treatment - research and practice, *Water Science and Technology*, 53 (4-5), 63-76

→ Also published last year in conference proceedings of 2<sup>nd</sup> IWA ICA Conference, Busan, Korea, 2005

## 2005

Mels, A., Otterpohl, R., Zeeman, G. (2005). Water cycle more integrated in built environment - Paradigm shifts in wastewater management, *Sustainable Building*, issue 01 - 2005

→ See <http://www.ue.wur.nl/> for downloading of the article.

Mels A., Zeeman G., Kujawa-Roeleveld K., Palsma B., Swart B. (2005). Demonstratieproject in Meppel - De keten verandert, langzaam maar zeker! H2O 38 (11), 18-20

Bisschops I., dos Santos A.B. and Spanjers H. (2005) Waste sizing solution as co-substrate for anaerobic decolourisation of textile dyeing wastewaters. Water Science and Technology 52 (1-2), 397-403.

dos Santos A.B., Bisschops I.A.E., Cervantes F.J., van Lier J.B. (2005). The transformation and toxicity of anthraquinone dyes during thermophilic (55C) and mesophilic (30C) anaerobic treatments, Journal of Biotechnology, 115(4), pp 345-353

Mattioli D., De Florio L., Giordano A., Tarantini M., Scalbi S. (ENEA, Bologna), Aguado M. (IPTS, Sevilla), Bianchi R., Bergna G. (Lariana Depur, Fino Mornasco), Witters H., Genné I. Schiettecatte W. (VITO, Mol), Spanjers H., Bisschops I. (LeAF, Wageningen), Hanke G., Loos R., Ligthart J. (IES, Ispra), Osset P., Vayn C. (Ecobilan, Paris), De Vreese I. (Centexbel, Brussels). (2005) Efficient use of water in the textile finishing industry, E-Water 2005/08, [http://www.ewaonline.de/journal/2005\\_08.pdf](http://www.ewaonline.de/journal/2005_08.pdf)

### 3. Conference contributions

#### 2010

Kragić-Kok, D., Spanjers, H. and Starkl, M. (2010) Global knowledge based technologies for water supply and sanitation in rural and peri-urban areas – an integrated approach for various stakeholders and decision makers, presented at the Project Antinomos final conference on “Dilemmas in Water Supply and Sanitation Sustainable Technology”, November 22-24, 2010, Bari, Italy.

Schram, E., Swinkels, W., van Eekert, M., Schuman, E., Schneider, O., and Verreth, J. (2010) How to prevent off-flavour in farmed fish? Poster presented at Aquaculture Europe, October 5-8, 2010, Porto, Portugal.

Ronteltap, M., and van Eekert, M. (2010) P-recovery from source separated urine. Presented at Trend in Environmental Biotechnology: “Phosphorus: from excess to shortage. Can technology solve the problem?”, November 18, Delft, The Netherlands

van Eekert, M. (2010) Nieuwe sanitatie. Verwerking van urine: terugwinning van N en P. Opening van Saniphos, Zutphen 13 oktober 2010 (<http://www.saniphos.eu/>)

#### 2009

Miriam H.A. van Eekert, Iemke Bisschops, Maikel Timmerman, Grietje Zeeman, 2009. Methane from biomass; an efficient use of byproducts. SENSE symposium: Innovative Techniques for a sustainable environment. 19-20 February 2009. Wageningen, the Netherlands.

#### 2008

Castellano D., Mels A., Braadbaart O., Veenstra S., Dijkstra I., Meulman B., Singels A., Wilsenach J.A. (2008) Sanitation services for the informal settlements of Cape Town, South Africa. Millennium Development Goals on Sanitation, Aquatech International Congress, Amsterdam RAI, The Netherlands. 30th September – 1 October 2008.

Kujawa-Roeleveld K., Schuman E., Grotenhuis T., Kragić D., Mels A., Zeeman G. (2008) Biodegradability of human pharmaceutically active compounds (PhAC) in biological systems treating source separated wastewater streams. Proceedings of the IWA international conference Sanitation Challenge, 19-21 May 2008, Wageningen, The Netherlands

#### 2007

Nielsen A.M., Spanjers H. and Volcke E.I.P. (2007) Calculating pH in pig manure taking into account ionic strength. Presented at 11th World Congress on Anaerobic Digestion, 23-27 September 2007.

Spanjers H. (2007) Anaerobic digestion: industrial wastewater treatment technique or resource conversion technology? Global Water Management Congress, Dubai, 19-20 November 2007

Veeken A., Blok W., Mels A., Moolenaar S., van Ewijk H. (2007) Present and Future Strategies for Biowaste Management. 2nd BOKU Waste Conference, April 16 - 19, 2007, Vienna, Austria. <http://waste-conference.boku.ac.at/>

Veeken A., Blok W., Moolenaar S., Grigatti M. (2007) Standardized determination and classification of compost organic matter stability. 2nd BOKU Waste Conference, April 16 - 19, 2007, Vienna, Austria. <http://waste-conference.boku.ac.at/>

Van Lier J.B. (2007) Current and future trends in anaerobic digestion: diversifying from waste(water) treatment to resource oriented conversion techniques. In: Proc. of the 11th IWA-International Conference on Anaerobic Digestion, Brisbane, Australia, 23-27 September, 2007. Invited key-note speaker

## **2006**

Seghezzo L., Mels A., van Buuren J., van Lier J. (2006) Internet course on urban wastewater treatment and agricultural reuse, In: Proceedings of Euro-Arab Environment Conference & Exhibition 2006, 27-29 November, p. 2006. 803-810.

Van Lier J.B. (2006) Anaerobic industrial wastewater treatment; perspectives for closing water and resource cycles. In: Proceedings of ACHEMA 2006, 28th Int. Exhibition Conference on Chemical Technology, Environmental Protection and Biotechnology. May 15-19, 2006, Frankfurt, Germany, Invited Key-note speaker.

Van Lier J.B. (2006) Anaerobic treatment for resource recovery. In: Proceedings of Workshop on Produktionintegrierte Wasser/Abwasser Technik. Sept. 13-14, 2006, Bremen, Germany. Invited speaker

## **2005**

Hegger D.L.T., van Vliet B., Mels A.R. (2005) Radical and incremental environmental innovations in urban water management - could they be friends? In: proceedings of 10th International Conference on Urban Drainage, August 21-26th 2005. Copenhagen, Denmark

Spanjers H., Bouvier J.-C., Steenweg P., Bisschops I, van Gils W. and Versprille B. (2005) Implementation of in-line infrared monitor in full-scale anaerobic digestion process. 2nd IWA Conference on Instrumentation, Control and Automation for water and wastewater treatment and transport systems, Busan, Korea, May 29 -June 2, 2005.

Bisschops I., Spanjers H. and Keesman K. (2005) Automatic detection of exogenous respiration end-point using artificial neural network. 2nd IWA Conference on Instrumentation, Control and Automation for water and wastewater treatment and transport systems, Busan, Korea, May 29 – June 2, 2005.

Spanjers H. and van Lier J.B. (2005) Instrumentation in anaerobic treatment – research and practice. 2nd IWA Conference on Instrumentation, Control and Automation for water and wastewater treatment and transport systems, Busan, Korea, May 29 – June 2, 2005.

#### **4. Other (book chapters, websites, etc)**

##### **2014**

Book "My Anaerobic Sustainability Story" by: Gatze Lettinga (2014)

##### **2010**

van Eekert M., van Dooren, H.J., Lexmond M. and Grietje Zeeman (2010) Methane from wastewater and manure. In: "Methane and Climate Change" Earthscan Publishers, 261 pp.

##### **2008**

Sanitation Challenge: New Sanitation Concepts and Models of Governance. Proceedings of the International IWA Conference. 19-21 May 2008. Wageningen, The Netherlands

##### **2007**

Van Lier, J.B. and Mels A. (2007). Scaling up of anaerobic treatment route. In: Ginestet., P. (ed.) Comparative evaluation of sludge reduction routes. IWA Publishing, London UK, ISBN: 1843391236: 55-61.

Project internet site "Agua para Todos - Agua para Siempre", launched in November 2007: <http://www.aguaparatodos.nl>

##### **2006**

Dos Santos A.B., Bisschops I.A.E. (2006) Closing process water cycles and product recovery in textile industry: perspective for biological treatment, In: Advanced Biological Treatment Processes for Industrial Wastewaters – Principles and Applications, Integrated Environmental Technology Series, IWA Publishing, London, UK

Lettinga Associates Foundation, Aqua For All, Wageningen University (2006) Internet Course on Urban Wastewater Treatment and Agricultural Reuse  
→ Visit our website <http://www.leaf-water.org> for more information