

# **Sewer Processes & Network Group (SPN-Group)**

**Section of Environmental Engineering**

**Department of Life Sciences**

**Aalborg University**

**Denmark**

## **PUBLICATION LIST**

The publication list includes totally 268 titles:

- 117 publications since 2000 (page 1-10)
- 151 publications before 2000 (page 11-25)

### **Books**

1. Vollertsen, J., T. Hvitved-Jacobsen, N.Aa. Jensen, C.S. Sørensen og M. Uggerby (2006), Afløbssystemets levetid og renovering – en teknisk, økonomisk og servicerelevanteret analyse (Service life time and rehabilitation of sewer networks – a technological, economic and service related analysis), Miljøprojekt nr. 1065 (Environmental Project series No. 1065), Miljøstyrelsen (National Agency of Environmental Protection), pp. 138. ISBN 87-7614-967-6.
2. Ashley, R.M., J.-L. Bertrand-Krajewski, T. Hvitved-Jacobsen and M. Verbanck (eds.) (2004), Solids in Sewers – characteristics, effects and control of sewer solids and associated pollutants, IWA (International Water Association) Publishing, Scientific & Technical Report No.14, pp 340. ISBN 1-900222-91-4.
3. Hvitved-Jacobsen, T. (2004), Sewer Processes – microbial and chemical process engineering of sewer networks. Gihodo Shuppan Co., Ltd., Japan, pp. 227. ISBN 4-7655-3194-5. In Japanese language.
4. Arnbjerg-Nielsen, K., T. Hvitved-Jacobsen, A. Ledin, K. Auffarth, P.S. Mikkelsen, A. Baun og J. Kjølholt (2002), Bearbejdning af målinger af regnbetingede udledninger af NPo og miljøfremmede stoffer fra fællessystemer i forbindelse med NOVA 2003 (Combined sewer overflows loads of conventional pollutants, heavy metals and organic micro-pollutants), Miljøprojekt nr. 701 (Environmental Project series No. 701), Miljøstyrelsen (National Agency of Environmental Protection), pp. 78. ISBN 87-7972-159-1.
5. Ashley, R.M., J. Blanksby, J. Dudley, A.J. Saul, H. Smith and J. Vollertsen (2002), Impact of extended storage on sewage treatment, United Kingdom Water Industry Research (UKWIR) Report No. 02/WW/04/3, pp 225. ISBN 1-84057-266-3.

6. Hvitved-Jacobsen, T. (2002), Sewer Processes – microbial and chemical process engineering of sewer networks. CRC Press, pp. 237. ISBN 1-56676-926-4.
7. Vollertsen, J., K. Vorkamp, T. Hvitved-Jacobsen og N.Aa. Jensen (2002), Udsivning af spildevand fra afløbssystemer (Exfiltration of wastewater from sewer networks), Miljøprojekt nr. 685 (Environmental Project series No. 685), Miljøstyrelsen (National Agency of Environmental Protection), pp 97. ISBN 87-7972-084-6.
8. Arnbjerg-Nielsen, K., T. Hvitved-Jacobsen, N.B. Johansen, P.S. Mikkelsen, B.K. Poulsen, W. Rauch og F. Schlütter (2000), Stofkoncentrationer i regnbetingede udledninger fra fællessystemer (Pollutant concentrations in runoff from combined sewer catchments), Miljøprojekt nr. 532 (Environmental Project series No. 532), Miljøstyrelsen (National Agency of Environmental Protection), pp 127. ISBN 87-7909-804-5.

### **Book chapters**

9. Vollertsen J. and T. Hvitved-Jacobsen (2005). Collection Systems - dry and wet weather performance, Chapter 5 in: Municipal Wastewater Management in Developing Countries: Principles and Engineering. Edited by Z. Ujang and M. Henze. IWA Publishing, London, UK, pp 352. ISBN 1843390302
10. Abdul-Talib, S., Z. Ujang, J. Vollertsen and T. Hvitved-Jacobsen (2004), Electron transfer rates and energy releases during denitrification of municipal wastewater, Environmental Biotechnology: Advancement in water and wastewater applications in the tropics, IWA (International Water Association) Water and Environmental Management Series, 205-211. ISBN 1-84339-503-7.
11. Ujang, Z., E. Soedjono, K.L. Olsen, A. Frederiksen, T. Hvitved-Jacobsen and J. Vollertsen (2004), Conditions affecting obnoxious smells from waste stabilisation ponds in tropical countries, Environmental Biotechnology: Advancement in water and wastewater applications in the tropics, IWA (International Water Association) Water and Environmental Management Series, 307-314. ISBN 1-84339-503-7.
12. Yang, W., J. Vollertsen and T. Hvitved-Jacobsen (2004), Anoxic transformations of wastewater in sewer networks, In Bertrand-Krajewski, J.-L., M. Almeida, J. Matos and S. Abdul-Talib (eds.), Sewer Networks and Processes within Urban Water Systems, IWA Publishing, ISBN 1-84339-506-1, 102-111.
13. Ashley, R.M. and T. Hvitved-Jacobsen (2002), Management of Sewer Sediments. Chapter #7 in: R. Field and D. Sullivan (eds), Wet-Weather Flow in the Urban Watershed - technology and management, Lewis Publishers, CRC Press, 187-223. ISBN 1-56676-916-7.
14. Hvitved-Jacobsen, T. and J. Vollertsen (2001), Odour formation in sewer networks. In: R. Stuetz and F.-B. Frechen (eds.), Odours in Wastewater Treatment: Measurement, Modelling and Control, IWA Publishing, Chapter 3, 33-68. ISBN 1-900222-46-9.
15. Hvitved-Jacobsen, T. and P.H. Nielsen (2000), Sulfur transformations during sewage transport. Chapter 6 in: P. Lens and L.H. Pol (eds.), Environmental Technologies to Treat Sulfur Pollution - principles and engineering, IWA Publishing, London, Chapter 6, 131-151. ISBN 1-900222-09-4.

## Refereed journal papers

16. Nielsen, A.H., J. Vollertsen, Jensen, H.S., Madsen, H.I. and T. Hvitved-Jacobsen (2007). Aerobic and anaerobic transformations of sulfide in a sewer system - field study and model simulations. *Water Environment Research*. In press.
17. Nielsen, A.H., T. Hvitved-Jacobsen and J. Vollertsen (2007). Effects of Iron on Chemical Sulfide Oxidation in Wastewater From Sewer Networks. *Journal of Environmental Engineering*. 133(6), 655-658.
18. Madsen, H.I., J. Vollertsen and T. Hvitved-Jacobsen (2006). Gas Phase Transport in Gravity Sewers - A methodology for determination of horizontal gas transport and ventilation. *Water Environment Research*, 78(11), 2203-2209.
19. Nielsen, A.H., J. Vollertsen and T. Hvitved-Jacobsen (2006), Kinetics and stoichiometry of sulfide oxidation in sewer wastewater – effects of pH and temperature. *Water Environment Research*, 78(3), 275-283.
20. Abdul-Talib, S., Z. Ujang, J. Vollertsen and T. Hvitved-Jacobsen (2005). Model concept for nitrate and nitrite utilization during anoxic transformation in the bulk water phase of municipal wastewater under sewer conditions. *Water Science and Technology*, 52(3), 181–189
21. Ashley, R., J.-L. Bertrand-Krajewski and T. Hvitved-Jacobsen (2005). Sewer solids – 20 years of investigation. *Water Science and Technology*, 52(3), 73–84.
22. Nielsen, A.H., C. Yongsiri, T. Hvitved-Jacobsen and J. Vollertsen (2005), Simulation of sulfide buildup in wastewater and atmosphere of sewer networks. *Water Science and Technology*, 52(3), 201-208.
23. Nielsen, A.H., J. Vollertsen and T. Hvitved-Jacobsen (2005). Discussion of 'Modeling Hydrogen Sulfide Emission Rates in Gravity Sewage Collection Systems' by Ori Lahav, Yue Lu, Uri Shavit, and Richard E. Loewenthal, *ASCE (American Society of Civil Engineers) Journal of Environmental Engineering*, 131(12), 1761-1762.
24. Nielsen, A.H., P. Lens, J. Vollertsen and T. Hvitved-Jacobsen (2005), Sulfide-iron interactions in domestic wastewater from a sewer. *Water Research*. 39(12), 2747-2755.
25. Nielsen, A.H., P. Lens, T. Hvitved-Jacobsen and J. Vollertsen (2005), Effects of aerobic-anaerobic transient conditions on sulfur and metal cycles in sewer biofilms. *Biofilms*, 2(2), 81-91.
26. Nielsen, A.H., T. Hvitved-Jacobsen and J. Vollertsen (2005), Kinetics and stoichiometry of sulfide oxidation by sewer biofilms. *Water Research*, 39(17), 4119-4125.
27. Sakrabani, R., R.M. Ashley and J. Vollertsen (2005), The influence of biodegradability of sewer solids for the management of CSOs. *Water Science & Technology*, 51(2), 89-98
28. Vollertsen, J., A.H. Nielsen, W. Yang and T. Hvitved-Jacobsen (2005), Effects of in-sewer processes – a stochastic model approach. *Water Science and Technology*, 52(3), 171-180.
29. Vollertsen, J., T. Hvitved-Jacobsen and A.H. Nielsen (2005), Stochastic modeling of COD transformations in gravity sewers, *Water Environment Research*, 77(4), 331-339, ISSN 1061-4303.

30. Yang, W., J. Vollertsen and T. Hvitved-Jacobsen (2005). Anoxic sulfide oxidation in wastewater of sewer networks. *Water Science and Technology*, 52(3), 191–199.
31. Yongsiri, C., J. Vollertsen and T. Hvitved-Jacobsen (2005), Influence of wastewater constituents on hydrogen sulfide emission in sewer networks, *ASCE (American Society of Civil Engineers) Journal of Environmental Engineering*, 131(12), 1676-1683.
32. Åstebøl, S.O., T. Hvitved-Jacobsen and Ø. Simonsen (2004), Sustainable stormwater management at Fornebu – from an airport to an industrial and residential area of the city of Oslo, Norway, *The Science of the Total Environment*, vol. 334-335, 239-249.
33. Nielsen, A.H., J. Vollertsen and T. Hvitved-Jacobsen (2004), Chemical sulfide oxidation of wastewater – effects of pH and temperature, *Water Science & Technology*, 50(4), 185-192, 1-84339-479-0.
34. Nordeidet, B., T. Nordeide, S.O. Åstebøl and T. Hvitved-Jacobsen (2004), Prioritising and planning of urban stormwater treatment in the Alna watercourse in Oslo, *The Science of the Total Environment*, vol. 334-335, 231-238.
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38. Yongsiri, C., J. Vollertsen, M. Rasmussen and T. Hvitved-Jacobsen (2004), Air-water transfer of hydrogen sulfide: an approach for application in sewer networks, *Water Environment Research*, 76(1), 81-88. ISSN 1061-4303.
39. Ashley, R., B. Crabtree, A. Fraser and T. Hvitved-Jacobsen (2003), European research into sewer sediments and associated pollutants and processes, *American Society of Civil Engineers (ASCE), Journal of Hydraulic Engineering*, 129(4). ISSN 0733-9429/2003/4-267-275.
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41. Nielsen, A.H., J. Vollertsen and T. Hvitved-Jacobsen (2003), Determination of kinetics and stoichiometry of chemical sulfide oxidation in wastewater of sewer networks, *American Chemical Society (ACS), Environmental Science & Technology*, 37(17), 3853-3858.
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45. Abdul-Talib, S, T. Hvitved-Jacobsen, J. Vollertsen and Z. Ujang (2002), Anoxic transformations of wastewater organic matter in sewers - process kinetics, model concept and wastewater treatment potential, *Water Science & Technology*, 45(3), 53-60.
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53. Barbosa, A.E. and T. Hvitved-Jacobsen (2001), Infiltration pond design for highway runoff treatment in semi arid climates, *ASCE (American Society of Civil Engineers) Journal of Environmental Engineering*, 127(11), 1014-1022.
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55. Vollertsen, J., A. Jahn, J.L.Nielsen, T. Hvitved-Jacobsen and P.H. Nielsen (2001), Comparison of methods for determination of microbial biomass in wastewater, *Water Research*, 35(7), 1649-1658.
56. Vorkamp, K., R. Herrmann and T. Hvitved-Jacobsen (2001), Characterisation of organic matter from anaerobic digestion of organic waste by aerobic microbial activity, *Bioresource Technology*, vol. 78, 257-265.
57. Hvitved-Jacobsen, T., J. Vollertsen and N. Tanaka (2000), An integrated aerobic/anaerobic approach for prediction of sulfide formation in sewers, *Water Science & Technology*, vol. 41, no. 6, 107-116.
58. Portielje, R., T. Hvitved-Jacobsen and K. Schaarup-Jensen (2000), Risk analysis using stochastic reliability methods applied to two cases of deterministic water quality models, *Water Research*, vol. 34, no. 1, 153-170.

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61. Vollertsen, J. and T. Hvitved-Jacobsen (2000), Resuspension and oxygen uptake of sediments in combined sewers, *Urban Water*, 2(1), 21-27.
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### **Papers presented at international conferences**

63. Nielsen, A.H., J. Vollertsen, Jensen, H.S., Madsen, H.I. and T. Hvitved-Jacobsen (2006). Aerobic and anaerobic transformations of sulfide in a sewer system - field study and model simulations. Proceedings from the WEFTEC 2006, Water Environment Federation, Dallas, Texas, USA, October 21-25, 2006.
64. Vollertsen, J., Nielsen, A.H., Jensen, H.S. and T. Hvitved-Jacobsen (2006). Modeling the Formation and Fate of Odorous Substances in Collection Systems. Proceedings from the WEFTEC 2006, Water Environment Federation, Dallas, Texas, USA, October 21-25, 2006.
65. Vollertsen, J., S.O. Åstebøl, J.E. Coward, T. Fageraas, H.I. Madsen, A.H. Nielsen and T. Hvitved-Jacobsen (2006). Monitoring and modeling the performance of a wet pond for treatment of highway runoff in cold climates. Proceedings from the 8th Highway and Urban Environment Symposium, Nicosia, Cyprus, June 12-14, 2006.
66. Madsen, H.I., J. Vollertsen and T. Hvitved-Jacobsen (2006). Modelling the oxygen mass balance of wet detention ponds. Proceedings from the 8th Highway and Urban Environment Symposium, Nicosia, Cyprus, June 12-14, 2006.
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70. Nielsen, A.H., T. Hvitved-Jacobsen and J. Vollertsen (2005). Recent findings on sinks for sulfide in gravity sewer networks, proceedings from the 10th International Conference on Urban Drainage, Copenhagen, Denmark, August 21-26, 2005, pp. 8.
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proceedings of the IWA Specialized Conference on Nutrient Management in Wastewater Treatment Processes and Recycle Streams, Krakow, Poland, 18-21 September 2005.

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73. Nielsen, A.H., C. Yongsiri, T. Hvitved-Jacobsen and J. Vollertsen (2004), Simulation of sulfide buildup in wastewater and atmosphere of sewer networks, proceedings from the 4<sup>th</sup> IWA (International Water Association) International Conference on Sewer Processes and Networks, Funchal, Madeira, Portugal, November 22-24, 2004, 241-248.
74. Vollertsen, J., A.H. Nielsen, W. Yang and T. Hvitved-Jacobsen (2004), Effects of in-sewer processes – a stochastic model approach, proceedings from the 4<sup>th</sup> IWA (International Water Association) International Conference on Sewer Processes and Networks, Funchal, Madeira, Portugal, November 22-24, 2004, 217-224.
75. Abdul-Talib, S., Z. Ujang, J. Vollertsen and T. Hvitved-Jacobsen (2004), Model concept for nitrate and nitrite utilization during anoxic transformations in the bulk water phase of municipal wastewater under sewer conditions, proceedings from the 4<sup>th</sup> IWA (International Water Association) International Conference on Sewer Processes and Networks, Funchal, Madeira, Portugal, November 22-24, 2004, 225-232.
76. Ashley, R., J.-L. Bertrand-Krajewski and T. Hvitved-Jacobsen (2004), Sewer solids – 20 years of investigation, proceedings from the 4<sup>th</sup> IWA (International Water Association) International Conference on Sewer Processes and Networks, Funchal, Madeira, Portugal, November 22-24, 2004, 113-122.
77. Madsen, H.I., J. Vollertsen and T. Hvitved-Jacobsen (2004), Sewer air ventilation – method for determination of gas phase transport characteristics in gravity sewers, proceedings from the 1<sup>st</sup> IWA (International Water Association) Asian Junior Scientist Workshop on Sewer Network Processes & Urban Drainage, Malacca, Malaysia, February 7-10, 2004, pp 8.
78. Yang, W., J. Vollertsen and T. Hvitved-Jacobsen (2003), Anoxic transformations of wastewater in sewer networks, Proceedings from the 18<sup>th</sup> IWA (International Water Association) European Junior Scientist Workshop on Sewer Processes and Networks, Almogrove, Portugal, November 7-11, 2003, pp 8.
79. Yongsiri, C., J. Vollertsen and T. Hvitved-Jacobsen (2003), Hydrogen sulfide emission in sewer networks: a two-phase modeling approach to the sulfide cycle, Proceedings from the 2<sup>nd</sup> IWA (International Water Association) International Conference on Odour & VOCs, Singapore, September 14-17, 2003, pp 8.
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87. Yongsiri, C., J. Vollertsen and T. Hvitved-Jacobsen (2002), Air-water transfer of hydrogen sulfide - an approach for application in sewer networks, Proceedings of the Water Environment Federation (WEF) Conference on Odors and Toxic Air Emissions 2002, Albuquerque, New Mexico, USA, April 28 - May 1, 2002, pp 14.
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93. Hvitved-Jacobsen, T., J. Vollertsen and J.S. Matos (2001), The sewer as a bioreactor – a dry weather approach, 2<sup>nd</sup> International Conference on Interactions between Sewers, Treatment Plants and Receiving Waters in Urban Areas (INTERURBA II), Lisbon, Portugal, February 19-22, 2001, 13-24.

94. Gudjonsson, G., J. Vollertsen and T. Hvitved-Jacobsen, (2001), Dissolved oxygen in gravity sewers – measurement and simulation, 2<sup>nd</sup> International Conference on Interactions between Sewers, Treatment Plants and Receiving Waters in Urban Areas (INTERURBA II), Lisbon, Portugal, February 19-22, 2001, 35-43.
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96. Abdul-Talib, S, T. Hvitved-Jacobsen, J. Vollertsen and Z. Ujang (2001), Anoxic transformations of wastewater organic matter in sewers - process kinetics, model concept and wastewater treatment potential, 2<sup>nd</sup> International Conference on Interactions between Sewers, Treatment Plants and Receiving Waters in Urban Areas (INTERURBA II), Lisbon, Portugal, February 19-22, 2001, 53-60.
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98. Hvitved-Jacobsen, T. and J. Vollertsen (2000), Formation modeling of odours in sewer networks, 1<sup>st</sup> International Meeting on Odour Measurement and Modelling, Cranfield University, Bedford, UK, May 31, 2000, pp 10.
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