

# Publications Judit Lienert

## Peer-reviewed publications

### Eawag

#### In revision / submitted / accepted

Aubert, A., Esculier, F., Lienert, J. (subm.) Can online swing weight elicitation help involve laypersons in complex environmental decision-making? Submitted to *Operations Research Perspectives*.

Haag, F., Reichert, P., Maurer, M., Lienert, J. (subm.) Integrating uncertainties in preferences and predictions in decision models: an application to regional wastewater planning. Submitted to *Journal of Environmental Management*.

#### 2019

Aubert, A., Lienert, J. (2019) Gamified online survey to elicit citizens' preferences and enhance learning for environmental decisions. *Environmental Modelling & Software* 111: 1-12. <https://doi.org/10.1016/j.envsoft.2018.09.013>.

Haag, F., Lienert, J., Schuwirth, N., Reichert, P. (2019) Identifying non-additive multi-attribute value functions based on uncertain indifference statements. *Omega* 85: 49-67. <https://doi.org/10.1016/j.omega.2018.05.011>.

Haag, F., Zürcher, S., Lienert, J. (2019) Enhancing the elicitation of diverse decision objectives for public planning. *European Journal of Operational Research* 279: 912-928. <https://doi.org/10.1016/j.ejor.2019.06.002>.

Harris-Lovett, S., Lienert, J., Sedlak, D. L. (2019) A mixed-methods approach to strategic planning for multi-benefit regional water infrastructure. *Journal of Environmental Management* 233: 218-237. <https://doi.org/10.1016/j.jenvman.2018.11.112>.

Marttunen, M., Weber, C., Åberg, U., Lienert, J. (2019) Identifying relevant objectives in environmental management decisions: An application to a national monitoring program for river restoration. *Ecological Indicators* 101: 851-866. <https://doi.org/10.1016/j.ecolind.2018.11.042>.

Marttunen, M., Haag, F., Belton, V., Mustajoki, J., Lienert, J. (2019) Methods to inform the development of concise objectives hierarchies in multi-criteria decision analysis. *European Journal of Operational Research* 277(2): 604-620. <https://doi.org/10.1016/j.ejor.2019.02.039>.

#### 2018

Aubert, A., Bauer, R., Lienert, J. (2018) A review of water-related serious games to specify use in environmental Multi-Criteria Decision Analysis. *Environmental Modelling & Software* 105:64-78. <https://doi.org/10.1016/j.envsoft.2018.03.023>.

Harris-Lovett, S, Lienert, J, Sedlak, D. L. (2018) Towards a new paradigm of urban water infrastructure: Identifying goals and strategies to support multi-benefit municipal wastewater treatment. *Water* 10(9): 1127. doi:10.3390/w10091127; <http://www.mdpi.com/2073-4441/10/9/1127>.

Marttunen, M., Belton, V., Lienert, J. (2018) Are objectives hierarchy related biases observed in practice? A meta-analysis of environmental and energy applications of Multi-Criteria Decision Analysis. *European Journal of Operational Research* 265: 178-194. <http://doi.org/10.1016/j.ejor.2017.02.038>.

Zheng, J., Lienert, J. (2018) Stakeholder interviews with two MAVT preference elicitation philosophies in a Swiss water infrastructure decision: aggregation using SWING-weighting and disaggregation using UTA-GMS. *European Journal of Operational Research* 267(1): 273-287. <https://doi.org/10.1016/j.ejor.2017.11.018>.

#### 2017

Marttunen, M., Lienert, J., Belton, V. (2017) Structuring problems for Multi-Criteria Decision Analysis in practice: A literature review of method combinations. Invited Review. *European Journal of Operational Research* 263(1): 1-17. <http://doi.org/10.1016/j.ejor.2017.04.041>.

Scholten, L., Maurer, M., Lienert, J. (2017) Comparing multi-criteria decision analysis and integrated assessment to support long-term water supply planning. PLoS ONE 12(5): e0176663. <http://doi.org/10.1371/journal.pone.0176663>.

## 2016

Langhans, S.D., Lienert, J. (2016) Four common simplifications of multi-criteria decision analysis do not hold for river rehabilitation. PLoS ONE 11(3): e0150695. <http://dx.doi.org/10.1371/journal.pone.0150695>.

Lienert, J., Duygan, M., Zheng, J. (2016) Preference stability over time with multiple elicitation methods to support wastewater infrastructure decision-making. European Journal of Operational Research 253 (3): 746-760. <http://dx.doi.org/10.1016/j.ejor.2016.03.010>.

Zheng, J., Egger, C., Lienert, J. (2016) A scenario-based MCDA framework for wastewater infrastructure planning under uncertainty. Journal of Environmental Management 183(3): 895-908. <http://dx.doi.org/10.1016/j.jenvman.2016.09.027>.

## 2015

Lienert, J., Scholten, L., Egger, C., Maurer, M. (2015) Structured decision-making for sustainable water infrastructure planning and four future scenarios. EURO Journal on Decision Processes 3(1-2): 107-140. (special issue on Environmental Decision Making). <http://dx.doi.org/10.1007/s40070-014-0030-0>.

Reichert, P., Langhans, S.D., Lienert, J., Schuwirth, N. (2015) The conceptual foundation of environmental decision support. Journal of Environmental Management 154: 316–332. <http://dx.doi.org/10.1016/j.jenvman.2015.01.053>.

Scholten, L., Schuwirth, N., Reichert, P., Lienert, J. (2015) Tackling uncertainty in multi-criteria decision analysis – An application to water supply infrastructure planning. European Journal of Operational Research 242(1): 243-260. <http://dx.doi.org/10.1016/j.ejor.2014.09.044>.

## 2014

Scholten, L., Scheidegger, A., Reichert, P., Maurer, M., Lienert, J. (2014) Strategic rehabilitation planning of piped water networks using multi-criteria decision analysis. Water Research 49(1): 124–143. <http://dx.doi.org/10.1016/j.watres.2013.11.017>.

Veronesi, M., Chawla, F., Maurer, M., Lienert, J. (2014) Climate change and the willingness to pay to reduce ecological and health risks from wastewater flooding in urban centers and the environment: Empirical evidence from Switzerland. Ecological Economics 98: 1–10. <http://dx.doi.org/10.1016/j.ecolecon.2013.12.005>.

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Langhans, S.D., Lienert, J., Schuwirth, N., Reichert, P. (2013) How to make river assessments comparable: A demonstration for hydromorphology. Ecological Indicators 32: 264–275. <http://dx.doi.org/10.1016/j.ecolind.2013.03.027>.

Lienert, J., Schnetzer, F., Ingold, K. (2013) Stakeholder analysis combined with social network analysis provides fine-grained insights into water infrastructure planning processes. Journal of Environmental Management 125: 134–148. <http://dx.doi.org/10.1016/j.jenvman.2013.03.052>.

Renner, R., Schneider, F., Hohenwallner, D., Kopeinig, C., Kruse, S., Lienert, J., Link, S., Muhar, S. (2013) Meeting the challenges of transdisciplinary knowledge production for sustainable water governance. Mountain Research and Development 33(3): 234–247. <http://dx.doi.org/10.1659/MRD-JOURNAL-D-13-00002.1>

## 2012

Schuwirth, N., Reichert, P., Lienert, J. (2012) Methodological aspects of multi-criteria decision analysis for policy support: A case study on pharmaceutical removal from hospital wastewater. European Journal of Operational Research 220: 472–483. <http://dx.doi.org/10.1016/j.ejor.2012.01.055>.

## 2011

Escher, B.I., Baumgartner, R., Koller, M., Treyer, K., Lienert, J., McArdell, C.S. (2011) Environmental toxicology and risk assessment of pharmaceuticals from hospital wastewater. Water Research 45(1): 75–92. <http://dx.doi.org/10.1016/j.watres.2010.08.019>.

Lienert, J., Koller, M., Konrad, J., McArdell, C.S., Schuwirth, N. (2011) Multiple-criteria decision analysis reveals high stakeholder preference to remove pharmaceuticals from hospital wastewater. *Environmental Science & Technology* 45(9): 3848–3857.  
<http://dx.doi.org/10.1021/es1031294>.

#### 2010

Escher, B.I., Bramaz, N., Lienert, J., Neuwoehner, J., Straub, J.O. (2010) Mixture toxicity of the antiviral drug Tamiflu® (oseltamivir ethylester) and its active metabolite oseltamivir acid. *Aquatic Toxicology* 96(3): 194–202. <http://dx.doi.org/10.1016/j.aquatox.2009.10.020>.

Larsen, T.A., Maurer, M., Eggen, R.I.L., Pronk, W., Lienert, J. (2010) Decision support in urban water management based on generic scenarios: The example of NoMix technology. *Journal of Environmental Management* 91(12): 2676–2687.  
<http://dx.doi.org/10.1016/j.jenvman.2010.07.032>.

Lienert, J., Larsen, T.A. (2010) High acceptance of urine source separation in seven European countries: A review. *Environmental Science & Technology* 44(2): 556–566.  
<http://dx.doi.org/10.1021/es9028765>.

#### 2009

Larsen, T.A., Alder, A.C., Eggen, R.I.L., Maurer, M., Lienert, J. (2009) Source separation: Will we see a paradigm shift in wastewater handling? *Environmental Science & Technology* 43(16): 6121–6125. <http://dx.doi.org/10.1021/es803001r>.

Rossi, L., Lienert, J., Larsen, T.A. (2009) Real-life efficiency of urine source separation. *Journal of Environmental Management* 90: 1909–1917. <http://dx.doi.org/10.1016/j.jenvman.2009.01.006>.

#### 2008

Borsuk, M.E., Maurer, J., Lienert, T.A., Larsen (2008) Charting a path for innovative toilet technology using multicriteria decision analysis. *Environmental Science & Technology* 42(6): 1855–1862.  
<http://dx.doi.org/10.1021/es702184p>.

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Larsen, T.A., Maurer, M., Udert, J., Lienert (2007) Nutrient cycles and resource management: implications for the choice of wastewater treatment technology. *Water Science and Technology* 56(5): 229–237. <http://dx.doi.org/10.2166/wst.2007.576>.

Lienert, J., T.A. Larsen (2007) Soft paths in wastewater management – the pros and cons of urine source separation. *GAIA* 16(4): 280–288.

Lienert J., K. Güdel, B.I. Escher (2007) Screening method for ecotoxicological hazard assessment of 42 pharmaceuticals considering human metabolism and excretory routes. *Environmental Science & Technology* 41(12): 4471–4478. <http://dx.doi.org/10.1021/es0627693>.

Lienert, J., T. Bürki, B.I. Escher (2007) Reducing micropollutants with source control: substance flow analysis of 212 pharmaceuticals in feces and urine. *Water Science and Technology* 56(5): 87–96. <http://www.dx.doi.org/10.2166/wst.2007.560>.

Pronk, W., S. Zuleeg, J. Lienert, B. Escher, M. Koller, A. Berner, G. Koch, M. Boller (2007) Pilot experiments with electrodialysis and ozonation for the production of a fertilizer from urine. *Water Science and Technology* 56(5): 219–227. <http://dx.doi.org/10.2166/wst.2007.575>.

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Escher, B.I., N. Bramaz, M. Richter, J. Lienert (2006) Comparative ecotoxicological hazard assessment of beta-blockers and their human metabolites using a mode-of-action based test battery and a QSAR approach. *Environmental Science & Technology* 40(23): 7402–7408.  
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Lienert, J., T.A. Larsen (2006) Considering user attitude in early development of environmentally-friendly technology: A case study of NoMix toilets. *Environmental Science & Technology* 40(16): 4838–4844. <http://dx.doi.org/10.1021/es060075o>.

Lienert, J., J. Monstadt, B. Truffer (2006) Future scenarios for a sustainable water sector – a case study from Switzerland. *Environmental Science & Technology* 40(2): 436–442.  
<http://dx.doi.org/10.1021/es0514139>.

Lienert, J., K. Thiemann, R. Kaufmann-Hayoz, T.A. Larsen (2006) Young users accept NoMix toilets – a questionnaire survey on urine source separating toilets in a college in Switzerland. *Water Science and Technology* 54(11–12): 403–412. <http://dx.doi.org/10.2166/wst.2006.920>.

#### 2004

Larsen, T.A., J. Lienert, A. Joss, H. Siegrist (2004) How to avoid pharmaceuticals in the aquatic environment. *Journal of Biotechnology* 113(1–3): 295–304. <http://dx.doi.org/10.1016/j.jbiotec.2004.03.033>.

#### 2003

Lienert, J., M. Haller, A. Berner, M. Stauffacher, T.A. Larsen (2003) How farmers in Switzerland perceive fertilizers from recycled anthropogenic nutrients (urine). *Water Science and Technology* 48(1): 47–56.

## From Diploma and PhD thesis

#### 2004

Lienert, J. (2004) Habitat fragmentation effects on fitness of plant populations – a review. *Journal for Nature Conservation* 12: 53–72. <http://dx.doi.org/10.1016/j.jnc.2003.07.002>.

Lienert, J., M. Fischer (2004) Experimental inbreeding reduces seed production and germination independent of fragmentation of populations of *Swertia perennis*. *Basic and Applied Ecology* 5: 43–52. <http://dx.doi.org/10.1078/1439-1791-00212>.

#### 2003

Lienert, J., M. Fischer (2003) Habitat fragmentation affects the common wetland specialist *Primula farinosa* in north-east Switzerland. *Journal of Ecology* 91: 587–599. <http://dx.doi.org/10.1046/j.1365-2745.2003.00793.x>.

#### 2002

Lienert, J., M. Fischer, M. Diemer (2002) Local extinctions of the wetland specialist *Swertia perennis* L. (Gentianaceae) in Switzerland: a revisitation study based on herbarium records. *Biological Conservation* 103: 65–76. [http://dx.doi.org/10.1016/S0006-3207\(01\)00121-5](http://dx.doi.org/10.1016/S0006-3207(01)00121-5).

Lienert, J., M. Diemer, B. Schmid (2002) Effects of habitat fragmentation on population structure and fitness components of the wetland specialist *Swertia perennis* L. (Gentianaceae). *Basic and Applied Ecology* 3: 101–114. <http://dx.doi.org/10.1078/1439-1791-00089>.

Lienert, J., M. Fischer, J. Schneller, M. Diemer (2002) Isozyme variability of the wetland specialist *Swertia perennis* L. (Gentianaceae) in relation to habitat size, isolation, and plant fitness. *American Journal of Botany* 89(5): 801–811. <http://dx.doi.org/10.3732/ajb.89.5.801>.

## Other publications

### Eawag

#### In preparation (close to submission)

Beutler Philipp, Lienert Judit (in preparation) «Zukünftige Abwasserentsorgung im ländlichen Raum - Fallstudie 1. Abschlussbericht für die Gemeinde.» (Future wastewater management in rural regions – case study 1. Final report for the municipality).

Beutler Philipp, Lienert Judit (in preparation) «Zukünftige Abwasserentsorgung im ländlichen Raum - Fallstudie 1. Technischer Bericht zur Entscheidungsunterstützung für die Gemeinde.» (Future wastewater management in rural regions – case study 1. Technical report to support decision-making for the municipality).

#### 2018

Keogh, L. (2018) Flows of science. Source separation technology at the Swiss Federal Institute of Aquatic Science and Technology (Eawag), 1992-2017., 76 p, contribution J. Lienert as interview partner. [doi:10.5281/zenodo.1283187](https://doi.org/10.5281/zenodo.1283187).

## 2015

- Lienert, J., Haag, F., Marttunen, M., Reichert, P., Schuwirth, N. (2015). Environmental decision analysis at Eawag, Switzerland. EWG-MCDA Newsletter, Series 3, No. 32, Fall 2015: 3-7. Download: <http://www.cs.put.poznan.pl/ewgmcda/newsletter/Fall15.pdf>.
- Lienert J., Scholten L., Egger C., Maurer M. (2015) Additional information for "Structured decision-making for sustainable water infrastructure planning and four future scenarios" (Lienert et al. (2015) EURO J Decis Process 3). Working Papers in Environmental Social Sciences 2015, 2014-3, Department of Environmental Social Sciences, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Dübendorf, Switzerland. <http://www.eawag.ch/forschung/ess/workingpapers/>.

## 2014

- Larsen, T.A., Udert, K.M., Lienert, J. (2014) Abwassertrennung und Dezentralisierung (in German) (Wastewater separation and decentralization). Aqua & Gas 1, 2014: 52–54. <http://www.aquaetgas.ch/>
- Maurer, M., Lienert, J. (2014) Wasserinfrastrukturen nachhaltig in eine unsichere Zukunft führen / Sustainable water infrastructure planning for an uncertain future (in German, English French). Eawag news 02/ April 2014: 1–8. [http://www.eawag.ch/medien/publ/news/2014\\_na\\_17/index?clear\\_lang=1](http://www.eawag.ch/medien/publ/news/2014_na_17/index?clear_lang=1)
- Maurer, M., Lienert, J. (2014) Im Untergrund drohen Wasserlecks (in German) (There is a threat of underground water leakages). Technik – Wissen, Schweizer Radio und Fernsehen, Online-Artikel Anita Vonmont, 24.02.2014. Switzerland. <http://www.srf.ch/wissen/technik/im-untergrund-drohen-wasserlecks>
- Scholten, L., Egger, C., Zheng, J. Lienert, J. (2014) Multikriterielle Entscheidungsunterstützung. Neue Ansätze für langfristige Infrastrukturplanung in der Wasserver- und -entsorgung (in German) (Multicriteria decision support. New approaches for long-term water supply and wastewater infrastructure planning). Aqua & Gas 5, 2014: 62–69. <http://www.aquaetgas.ch/>

## 2013

- Larsen, T.A., K.M. Udert, J. Lienert (eds.) (2013) Source Separation and Decentralization for Wastewater Management. IWA publishing, London, UK. ISBN 9781843393481 (Paperback), ISBN 9781780401072 (eBook); download eBook: <http://www.iwapublishing.com/books/9781843393481/source-separation-and-decentralization-wastewater-management>
- Lienert, J. (2013) High acceptance of source separating technologies – but... In: Larsen, T.A., K.M. Udert, J. Lienert (eds.) (2013) Source Separation and Decentralization for Wastewater Management. IWA publishing, London, UK. ISBN 9781843393481 (Paperback), ISBN 9781780401072 (eBook).

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- Lienert, J. M. Maurer (2012) Judit Lienert: „Wir arbeiten mit einer ‚multikriteriellen Entscheidungs-analyse‘“ (in German) (Judit Lienert: „We are working with ‚multicriteria decision analysis‘“). Aqua & Gas 5: 2012. <http://www.aquaetgas.ch/>

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- Chawla, F., M. Veronesi, M. Maurer, J. Lienert (2011) Economic valuation and perception of personal and environmental risks in the wastewater sector: Evidence from a representative stated preference survey in Switzerland. Final report of the project "Umweltrelevante gesellschaftliche Entscheidungsprozesse" to FOEN (Federal Office for the Environment), Eawag, Dübendorf, Switzerland, pp. 154.
- Lienert, J. (2011) Visiting researcher at IRES. IRES Annual Report 2010, Institute for Resources, Environment and Sustainability, University of British Columbia (UBC), Vancouver, Canada: p. 59. Download: <http://ires.sites.olt.ubc.ca/files/2011/08/ANNUAL-REPORT-FINAL-for-web.pdf>
- Lienert, J., M. Maurer (2011) Sustainable water infrastructure planning. Videoclip. National Research Programme "Sustainable water management" (NRP 61). Download: <http://www.nfp61.ch/E/projects/videoclips/Pages/default.aspx?NEWSID=1505&WEBID=F6B532FB-64ED-466F-8816-193D4DE8DC94>.
- McArdell C.S., J. Lienert (2011) How to deal with hospital wastewater? Eawag Annual Report 2010: pp. 10–11. Download: <http://www.eawag.ch/medien/publ/jb/2010/jb10e.pdf>.

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Escher, B.I., Baumgartner, R., Lienert, J., Fenner, K. (2009) Predicting the ecotoxicological effects of transformation products. In: Boxall, A.B.A. (ed.) *Transformation Products of Synthetic Chemicals in the Environment, The Handbook of Environmental Chemistry*, vol. 2, Springer, Berlin / Heidelberg, Germany. pp. 205–244. DOI: 10.1007/978-3-540-88273-2. ISBN: 978-3-540-88272-5.

<http://www.springerlink.com/content/48r2t364q183q654/?p=5c16872d34fd4479acac053e6df22309&pi=8>.

Lienert, J., B.I. Escher (2009) Verringerung der Schadstoffbelastung durch Pharmaka mittels Urinseparierung und ökotoxikologischer Relevanz. In: R. Gälli, C. Ort, M. Schärer (eds.) Mikroverunreinigungen in den Gewässern. Bewertung und Reduktion der Schadstoffbelastung aus der Siedlungsentwässerung. Umwelt-Wissen Nr. 0917. Bundesamt für Umwelt, Bafu, Bern: pp: 67–70. Download: [www.umwelt-schweiz.ch/uw-0917-d](http://www.umwelt-schweiz.ch/uw-0917-d) (in German, English Abstract).

Rossi, L., J. Lienert, T.A. Larsen (2009) Lutte à la source pour la rétention de micropolluants dans les eaux: le concept NoMix. *Techniques Sciences et Méthodes* 4 : 53–59.

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Escher, B.I., J. Lienert (2007) Can NoMix help to prevent environmental problems caused by medicines? *Eawag News* 63 (03.2007): 23–25 (available in german, english, and french).

Larsen, T.A., J. Lienert (2007) Novaquatis final report. NoMix – A new approach to urban water management. Eawag, 8600 Dübendorf (available in german and english).

Larsen, T.A., J. Lienert (2007) Spotlight on NoMix – Lead article. *Eawag News* 63 (03.2007): 4–7 (available in german, english, and french).

Larsen, T.A., J. Lienert (2007) Tagungen: Novaquatis – NoMix-Technologie als Chance für die Umwelt. *Gaia* 16 (2): 85.

Larsen, T.A., J. Lienert (2007) NoMix-Technologie – Chance für die Siedlungswasserwirtschaft. *gwa (Gas Wasser Abwasser)* 4/2007: 255–262.

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Lienert, J., T.A. Larsen (2007) Pilot projects in bathrooms: a new challenge for wastewater professionals. *Water Practice & Technology* 2(3): doi10.2166/wpt.2007.0057. Download: <http://www.iwaponline.com/wpt/002/03/default.htm>

Lienert, J., T.A. Larsen (2007) Urinseparierung als Chance für die Siedlungswasserwirtschaft. *Eawag Jahresbericht 2006*: p. 8–15 (available in german and english).

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## 2006

Joss, A., U. Klaschka, T. Knacker, M. Liebig, J. Lienert, T.A. Ternes, A. Wennmalm (2006) Source control, source separation. In: T.A. Ternes, A. Joss (eds.) *Human Pharmaceuticals, Hormones and Fragrances: The Challenge of Micropollutants in Urban Water Management*. IWA Publishing, London, United Kingdom, ISBN10: 1843390930, ISBN13: 9781843390930: p. 353–384.

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Udert, K.M., J. Lienert, T.A. Larsen (2006) Novaquatis – Neue Wege in der Siedlungswasserwirtschaft. Gewässerschutz–Wasser–Abwasser 204. Schriftenreihe des Instituts für Siedlungswasserwirtschaft der Rheinisch-Westfälischen Technischen Hochschule Aachen: 19/1–19/4.

#### 2005

Larsen, T.A., J. Lienert, M. Maurer, W. Gujer (2005) Ökologische Infrastrukturinnovationen in der Siedlungswasserwirtschaft: Ansätze und Perspektiven. In: Loske, R., R. Schaeffer (Hg.) Die Zukunft der Infrastrukturen – Intelligente Netzwerke für eine nachhaltige Entwicklung. Metropolis-Verlag, Marburg, ISBN 3-89518-502-7: S. 347–367.

Lienert, J., T.A. Larsen (2005) Making the first step towards a more sustainable urban water management system – with the NoMix toilet. European Water Day, 84<sup>th</sup> ASTEE congress, Paris, France. 02.06.2005, Summary: p. 76; full article: CD-ROM.

Truffer, B., J. Lienert, J. Monstadt (2005) Zukünfte der Siedlungswasserwirtschaft – Eine Szenarioanalyse für die Schweiz. gwa (Gas Wasser Abwasser) 9/2005: 695–702.

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Truffer, B., J. Lienert, J. Monstadt (2005) Zukunftsanalysen für die Siedlungswasserwirtschaft – Ergebnisse einer Szenarioanalyse. Tagungsband der Lippuner Tagung, 17.11.2005 Thun, Schweiz.

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Larsen, T.A., J. Lienert (2004) Coping with micropollutants in urine-based fertilizer. Proceedings of the DeSa/R Symposium, Berching / Opf., Germany, “DeSA/R – Means to achieve the millennium goal for sanitation”, 14.07.2004, 155–169.

Lienert, J., T.A. Larsen (2004) Introducing urine separation in Switzerland: Novaquatis, an interdisciplinary research project. In: ‘ecosan – closing the loop’ Proceedings of the 2<sup>nd</sup> International Symposium on Ecological Sanitation in Lübeck 2003. Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) GmbH (ISBN 3-00-012791-7): 891–899 (peer reviewed).

Rossi, L., J. Lienert, W. Rauch (2004) At-source control of urine to prevent acute wet-weather impacts of ammonia. Presented at 5<sup>th</sup> International Conference on Sustainable Techniques and Strategies in Urban Water Management (NOVATECH), May 2004. Proceedings, vol 2, Lyon, France: 919–926.

#### 2003

Larsen, T.A., J. Lienert: Societal implications of re-engineering the toilet (2003) Water Intelligence Online March 2003. [www.iwaponline.com/wio/2003/03/default001.htm](http://www.iwaponline.com/wio/2003/03/default001.htm)

Lienert, J., T.A. Larsen (2003) NoMix-Technologie: Wie gut ist die Akzeptanz? Eawag news 57, September 2003: 14–17.

Lienert, J. (2003) Novaquatis – Ein Forschungsprojekt der Eawag. Schriftliches Interview mit Judit Lienert. Novatlantis (Nachhaltigkeit im ETH Bereich). novatlantis news, 4.9.2003.

#### 2002

Lienert, J., T.A. Larsen (2002) Urinseparierung – eine Alternative für die Schweizerische Siedlungswasserwirtschaft? gwa (Gas Wasser Abwasser) 11/2002: 819–826.

#### From 2001 until 2007

Novaquatis: information material, webpage, annual report, internal reports, newsletters. Project coordinator of Novaquatis since October 2001; operational project leader since February 2004 until the end of Novaquatis in March 2007.

## From Diploma and PhD thesis

### 2005

Diemer, M., R. Billeter, D.A.P. Hooffman, K. Oetiker, J. Lienert (2005) Die langfristigen Auswirkungen von Nutzungsänderungen auf häufige Pflanzenarten montaner Kalkflachmoore in der Schweiz. (The long-term effects of land use changes on common plant species of Swiss calcareous fens). *Natur und Landschaft* 80(2): 63–68 (in German).

### 2002

Lienert, J. (2002) Population biology of wetland plants in fragmented landscapes. PhD Thesis. Faculty of Science, Institute of Environmental Sciences, University of Zürich, Switzerland.

### 2001

Lienert, J., M. Fischer, M. Diemer (2001) Genetic variability, fitness, and local extinctions of *Swertia perennis* L. (Gentianaceae) in a fragmented landscape. *Verhandlungen der Gesellschaft für Ökologie* 31: 38.

### 1999

Hooffman, D.A.P., M. Diemer, J. Lienert, B. Schmid (1999) Does habitat fragmentation reduce the long-term survival of isolated populations of dominant plants? A field design. *Bulletin of the Geobotanical Institute ETH Zürich* 65: 59–72.

Lienert, J. (1999) The effects of habitat fragmentation on population structure, fitness, and extinction during the last century of *Swertia perennis* L. (Gentianaceae), a rare but locally abundant fen species. Diploma Thesis. Institute of Environmental Sciences and Institute of Systematic Botany, University of Zürich, Switzerland

## Various

### 1996 – 1999

Oetiker, K., J. Lienert (1997) Pflanzen der Liebe. *Natur und Mensch. Schweiz. Blätter für Natur- und Heimatschutz, Rheinaubund* 6 (1997): 17–19.

Publications and advertising material of the nature conservation group Binz, Zürich. Managing board member, 1996–1999.

### 1991 – 1993

Various contributions to KaMel. Student magazine of the „Kant. Maturitätsschule für Erwachsene“ (KME); member of the editorial office, 1991–1993.

### 1984 – 1987

Zollinger, E., J. Lienert (1987) *Eva und Judit – Zwei kranke Schwestern. Kritische Betrachtungen zu unserer Spitaltätigkeit und unserer Rolle als Frau und Krankenschwester.* Lenos Verlag, Basel.

Various contributions to “Krankenpflege”. Magazine of the Swiss Nursing Association (SBK), 1984–1985.

## Further education, department head

2018: Department head ad interim, Department of Environmental Social Sciences ESS, Eawag, Dübendorf, Switzerland, 01.03-30.11.2018.

2017: Certificate of Advanced Studies FHNW (CAS) Leadership in Science. Fachhochschule Nordwestschweiz, Hochschule für Technik, Windisch, Switzerland, 05.09.-08.12.2017.

## Awards; editorial boards, panels, working groups

2019 Marttunen, M., Lienert, J., Belton, V. EURO Award for the Best EJOR Paper. Review: Structuring Problems for Multi-Criteria Decision Analysis in practice: A literature review of



- method combinations. Association of European Operational Research Societies, 30<sup>th</sup> EURO Conference, Dublin, Ireland, 26.06.2019. <https://www.euro-online.org/web/pages/1490/award-for-the-best-ejor-paper-eabep>
- 2018–ongoing: Lienert, J., Linkov, I. Guest Editors of Special Issue on Environmental Decisions. EURO Journal on Decision Processes. Publication of Feature Issue planned for Autumn/Winter 2019. <https://www.editorialmanager.com/ejdp>.
- 2017–ongoing: Member of the management board of EURO Working Group on Behavioral Operational Research (EWG-BOR); <http://bor.aalto.fi/index.html>.
- 2016–ongoing: Member of advisory board of Saguf, Swiss Academic Society for Environmental Research and Ecology; <http://www.naturalsciences.ch/organisations/saguf>.
- 2012–ongoing: Editorial board of EURO Journal on Decision Processes; <http://www.springer.com/business+%26+management/operations+research/journal/40070>.
- 2018: Lienert, J. et al. Panel member for the evaluation of proposals for MISTRA (The Swedish Foundation for Strategic Environmental Research), call Smart Infrastructure Maintenance, 13.-15.02.2018, Mistra headquarters, Stockholm, Sweden.
- 2015–2017: Member of working group “Einzugsgebietsmanagement” (integrated catchment management), Wasser-Agenda 21; <https://wa21.ch/themen/einzugsgebietsmanagement/>
- 2016: Reviewer of project proposals of German Bundesministerium für Bildung und Forschung (BMBF) Fördermaßnahme „Umsetzung der Leitinitiative Zukunftsstadt“. Themen Klimaresilienz, sozial-ökologische Gerechtigkeit und nachhaltige Mobilität. [www.fona.de/de/20618](http://www.fona.de/de/20618)
- 2011: Top 5 Cited Articles published in the last 10 years, Journal for Nature Conservation: Lienert, J. (2004) Habitat fragmentation effects on fitness of plant populations – a review. Journal for Nature Conservation 12: 53–72.
- 2008: Larsen, T.A., Lienert J. Swiss academies award for transdisciplinary research 2008, td-net and Stiftung Mercator Schweiz, given to the project Novaquatis “for its visionary, innovative and integrative approach in urban water management”. Zürich, Switzerland, 27.11.2008.
- 2003: Highly commended for Young Investigator’s Prize 2003 (John L. Harper Prize) of Journal of Ecology for the paper Lienert and Fischer (2003) Habitat fragmentation affects the common wetland specialist *Primula farinosa* in north-east Switzerland. Journal of Ecology 91: 587–599. See: L. Haddon, A. Davy, D. Gibson, and M. Hutchings (2004) Journal of Ecology News. Journal of Ecology 92: 1–4.
- 1998: Semester Award (Semesterprämie) 1998 of the Prize Institute of the University of Zürich for the Semester Thesis “Plant populations in fragmented habitats”.

## Teaching, guest lectures, PhD’s

- Ongoing (since 2011): Multi-Criteria Decision Analysis, ETH Zürich, Department of Environmental Sciences, yearly course 701-1522-00 (2 hours per week; 3 credit points), Spring Semester.
- Ongoing (since 2014): Multi-Criteria Decision Analysis, an Introduction. Guest lecture and exercises in Advanced Environmental, Social and Economic Assessments, ETH Zürich, Institute of Environmental Engineering, Chair of Ecological Systems Design (Stefanie Hellweg), yearly course 102-0307-00, Autumn Semester.
- 2019 Haag, F. Advancing decision analysis methods for environmental management. Including stakeholder values in wastewater infrastructure planning and river assessment. Thesis-No.: 26018. Title: Dr. sc. ETH Zürich. Switzerland (Supervisor: P. Reichert, co-examiners: J. Lienert, M. Maurer, external co-examiner: Valentin Bertsch, German Aerospace Center (DLR) and University of Stuttgart, DE; Chairperson: Janet Hering).
- 2013 Lienert, J. Making hard decisions to ensure safe water supply and wastewater disposal in uncertain futures. Seminar on Transdisciplinary Research for Sustainable Development, D-USYS, ETH Zürich, Switzerland, 06.11.2013.
- 2011 Lienert, J. Official opponent in the public examination of the Doctoral Thesis by Mika Marttunen: “Interactive multi-criteria decision analysis in the collaborative management of

watercourses". Supervisor: Professor Raimo P. Hämäläinen Systems Analysis Laboratory, Aalto University, School of Science, Helsinki, Finland, 28.10.2011.

2010 Lienert, J. Multi-Criteria Decision Analysis, Introduction. Sustainability in Water Supply, Water Resources and Aquatic Ecosystems, Lecture 701-1348-00L by Janet Hering. ETH Zürich, 14.04.2010.

# Presentations

## Conferences, proceedings, meetings, workshops

### 2019

- Aubert, A., Lienert, J. Weight elicitation for many laypersons who cannot come together: gamifying online survey. 19<sup>th</sup> International Conference on Group Decision and Negotiation, in 2019 a joint GDN-EWG/BOR meeting, Loughborough, UK, 11.-15.06.2019.
- Beutler, P., Zürcher, S., Lienert, J. Organization and facilitation of 2<sup>nd</sup> MCDA workshop with 15 local & regional stakeholders. Project: Decision-making for the transition from central to novel wastewater infrastructure systems. Community in Ct. Solothurn, Switzerland, 04.07.2019.
- Beutler, P., Lienert, J. Do stakeholders know which wastewater systems achieve what they want? Insights from infrastructure planning in rural areas. EURO 2019 – 30<sup>th</sup> European Conference on Operational Research, Dublin, Ireland, 23.-26.06.2019.
- Beutler, P., Haag, F., Lienert, J. Organization and facilitation of 1<sup>st</sup> MCDA workshop with 15 local & regional stakeholders. Project: Decision-making for the transition from central to novel wastewater infrastructure systems. Community in Ct. Solothurn, Switzerland, 28.03.2019.
- Haag, F. Supporting the generation of decision objectives by individuals in an online process. 19<sup>th</sup> International Conference on Group Decision and Negotiation, in 2019 a joint GDN-EWG/BOR meeting, Loughborough, UK, 11.-15.06.2019.
- Lienert, J., Zürcher, S., Vetschera, R. Online survey to test fairness principles for public infrastructure planning. EURO 2019 – 30<sup>th</sup> European Conference on Operational Research, Dublin, Ireland, 23.-26.06.2019.
- Lienert, J., Zürcher, S., Vetschera, R. Fairness in the planning of new wastewater infrastructures. 19<sup>th</sup> International Conference on Group Decision and Negotiation, in 2019 a joint GDN-EWG/BOR meeting, Loughborough, UK, 11.-15.06.2019.
- Lienert, J. Why real-world environmental decisions are exciting for operational research. Invited Plenary Talk, Swiss OR Days 2019, HEC, Université de Lausanne, Switzerland, 06.-07.06.2019.
- Silva Pinto, F., Lienert, J. Understanding stakeholder learning processes to improve computer technology for forecasting floods in Africa, FANFAR project. EURO 2019 – 30<sup>th</sup> European Conference on Operational Research, Dublin, Ireland, 23.-26.06.2019.
- Silva Pinto, F., Lienert, J. Organization and facilitation of several decision analysis sessions. Second stakeholder workshop of project FANFAR, with around 40 West African participants from 17 countries. Ange Hill Hotel, Accra, Ghana, Africa, 09.-12.04.2019.
- Zürcher, S. Vetschera, R., Lienert, J. Online survey to test fairness principles for public infrastructure planning. Seminar Department of Business Decisions and Analytics, University of Vienna, Austria. 03.05.2019.

### 2018

- Aubert, A. H., Lienert, J. Online weight elicitation: is there really an issue? EURO 2018 – 29<sup>th</sup> European Conference on Operational Research Valencia, Spain, 08.-11.07.2018.
- Aubert, A. H.; Bauer, R.; Lienert, J. Environmental decision-making: a serious game! EGU General Assembly 2018 (Games for Geoscience). Vienna, Austria, 09.-13.04.2018.
- Aubert, A. H.; Lienert J. Preference construction for environmental MCDA: Learning to make informed decisions. Review pitch presentation, poster, session chair. 1<sup>st</sup> winter meeting, EURO Working Group on Behavioral Operational Research (EWG-BOR). Eawag, Dübendorf, 29.-30.01.2018.

- Beutler, P., Haag, F., Lienert, J. Organization and facilitation of 2<sup>nd</sup> MCDA workshop with 7 local & regional stakeholders. Project: Decision-making for the transition from central to novel wastewater infrastructure systems. Community in Ct. Solothurn, Switzerland, 04.06.2018.
- Beutler, P., Haag, F., Lienert, J. Organization and facilitation of 1<sup>st</sup> MCDA workshop with 7 local & regional stakeholders. Project: Decision-making for the transition from central to novel wastewater infrastructure systems. Community in Ct. Solothurn, Switzerland, 11.-12.04.2018.
- Haag, F., Lienert, J. Supporting regional planning of wastewater infrastructure with Decision Analysis. Eawag Symposium, Dübendorf, Switzerland, 14.09.2018.
- Haag, F., Lienert, J. A drop in the bucket? A drop in the bucket? Evaluating decision aiding tools in wastewater infrastructure planning cases. EURO 2018 – 29th European Conference on Operational Research Valencia, Spain, 08.-11.07.2018.
- Haag, F.; Lienert, J.; Schuwirth, N.; Reichert, P. Identifying value functions for river assessment based on uncertain indifference statements. Poster for 11<sup>th</sup> IBP PhD Congress (Institute of Biogeochemistry and Pollutant Dynamics), ETH Zürich, Switzerland, 06.04.2018.
- Haag, F.; Lienert, J. The many (inter)faces of preference elicitation: building adaptable interactive applications. Review pitch presentation & poster. 1<sup>st</sup> winter meeting, EURO Working Group on Behavioral Operational Research (EWG-BOR). Eawag, Dübendorf, 29.-30.01.2018.
- Lienert, J., Aubert, A. H., Silva Pinto, F. Organization and facilitation of several decision analysis sessions. First stakeholder workshop of project FANFAR, with around 30 West African participants from 15 countries. AGRHYMET, Niamey, Niger, Africa, 16.-20.09.2018.
- Lienert J., Maurer, M. Moderation at Eawag Infotag 2018: Abwasser als – zukunftsweisende Technologien zur Rückgewinnung von Wertstoffen, Eawag, Dübendorf, 11.09.2108.
- Lienert, J.; Zheng, J. To aggregate or disaggregate? Experience from stakeholder interviews with two preference elicitation philosophies (SWING-weighting, UTA<sup>GMS</sup>). Presentation and session chair at EURO 2018 – 29<sup>th</sup> European Conference on Operational Research, Valencia, Spain, 08.-11.07.2018.
- Lienert, J. Non-grid solutions for the future of urban water management? Participation and co-facilitation of International Workshop, organized by Eawag-Wings Programme. Congressi Stefano Franscini, Monte Verità, Ascona, Switzerland, 14.-17.03.2018.
- Lienert, J., Zürcher, S. First winter meeting of EURO Working Group on Behavioral Operational Research (EWG-BOR) at Eawag. Organization and facilitation of International Workshop. Eawag, Dübendorf, Switzerland, 29.-30.01.2018.
- Lienert, J., Hoffart, J. User needs, tests and behavioural responses. FANFAR Kickoff meeting, Swedish Meteorological and Hydrological Institute (SMHI), Norrköping, Sweden, 17.-19.01.2018.
- 2017
- Aubert, A., Lienert, J. Decision-making: A serious game. Eawag Symposium, Dübendorf, 15.09.2017.
- Aubert, A. Lienert, J. Environmental decision analysts: let's be playful! Invited session "Behavioral issues in environmental decision support, I". Presentation and session chair. IFORS, 21<sup>st</sup> Conference of the International Federation of Operation Research Societies, Québec, Canada, 17.-21.07.2017.
- Belton, V., Marttunen, M., Lienert, J. Structuring problems for Multicriteria Decision Analysis. Invited session „Collaboration and interaction of MCDM with other sciences“. Presentation and session chair. MCDM, 24<sup>th</sup> International Conference on Multiple Criteria Decision Making, University of Ottawa, Canada, 10.-14.07.2017.
- Haag, F., Lienert, J. Structuring objectives for public wastewater infrastructure decisions. Poster, Eawag Symposium, Dübendorf, Switzerland, 15.09.2017.
- Haag, F., Reichert, P., Schuwirth, N., Lienert, J. Using trade-off preferences to identify non-additive multi-criteria value functions. Session "Behavioral issues in environmental decision support, I". IFORS, 21<sup>st</sup> Conference of the International Federation of Operation Research Societies, Québec, Canada, 17-21.07.2017.
- Haag, F., Lienert, J. Structuring objectives for public wastewater infrastructure decisions as evolutionary process. GDN, 17th International Conference on Group Decision and Negotiation! University of Hohenheim, Stuttgart, Germany, 14.-18.08.2017.

- Haag, F., Reichert, P., Schuwirth, N., Lienert, J. Obtaining overall evaluations in environmental assessments. Poster for 10th IBP PhD Congress (Institute of Biogeochemistry and Pollutant Dynamics), ETH Zürich, Switzerland, 21.04.2017.
- Lienert, J., Belton, V., Haag, F., Mustajoki, J., Marttunen, M. Are all proposed objectives useful in environmental decision-making? Invited session "Behavioral issues in environmental decision support, II". Presentation and session chair. IFORS, 21st Conference of the International Federation of Operation Research Societies, Québec, Canada, 17-21.07.2017.
- Lienert, J. Real-world environmental decisions are messy – bridging the gap between scientific rigor and practical application. Science to Policy and Practice Interface (SP2I) lunch discussion group. Eawag, Dübendorf, Switzerland, 20.06.2017.
- Lienert, J., Marttunen, M., Haag, F., Mustajoki, J., Belton, V. Sind alle Ziele bei komplexen Umweltentscheidungen zielführend? Workshop der GOR Arbeitsgruppe „Entscheidungstheorie und -praxis“ Fakultät für Wirtschaftswissenschaften, Universität Wien, 27.-28.02.2017.
- 2016
- Aubert, A.H., Lienert, J. Participatory environmental decision making: let's play a serious game! Poster and poster flash. Eawag Symposium. Eawag, Dübendorf, Switzerland, 15.09.2016.
- Aubert, A.H., Lienert, J. Serious games in environmental MCDA: enhancing preference construction and citizen involvement. EURO 2016, 28<sup>th</sup> European Conference on Operational Research, Poznan, Poland 03.–06.07.2016.
- Aubert, A.H., Lienert, J. Constructing preferences: let's play a serious game! Presentation at BOR summer school (Behavioral Operational Research), Helsinki, Finland, 15.–21.06.2016.
- Aubert, A.H., Esculier, F., Larsen, T.A., Udert, K., Lienert, J. OC-API-Wings Paris – Groupe de travail Objectifs et options pour la gestion des urine et fèces des nouvelles constructions du Grand Paris. Colloque ARCEAU (workshop), Séparation à la source des eaux usées domestiques, Paris, France, 20.–21.06. 2016.
- Belton, V., Marttunen, M., Lienert, J. Structuring Problems for Multicriteria Decision Analysis. OR58 Annual Meeting, London, UK, 06.–08.09.2016.
- Belton, V., Marttunen, M., Lienert, J. Combining Methods for Problem Structuring and Multicriteria Decision Analysis – a review of practice and reflections on behavioural implications. EURO 2016, 28<sup>th</sup> European Conference on Operational Research, Poznan, Poland 03.–06.07.2016.
- Belton, V., Marttunen, M., Lienert, J. Combining problems structuring methods with MCDA: Insights from a literature review. ESS Seminar, Eawag, Dübendorf, Switzerland, 15.06.2016.
- Beutler, P., Lienert, J. Zukünftige Abwasserentsorgung in ländlichen Gemeinden. Workshop und Austausch Gemeindevertreterinnen und -vertreter in möglicher Fallstudie, Eawag und Kanton Solothurn, 05.10.2016.
- Haag, F., Reichert, P., Maurer, M., Lienert, J. How decision analysis can advance assessments in water management. Eawag Symposium. Eawag, Dübendorf, Switzerland, 15.09.2016.
- Haag, F., Marttunen, M., Lienert, J. Building concise objectives hierarchies for environmental decisions. Poster for BOR summer school (Behavioral Operational Research), Helsinki, Finland, 15.–21.06.2016.
- Haag, F., Reichert, P., Maurer, M., Lienert, J. Predicting decision-relevant wastewater impacts by knowledge synthesis. Poster for IBP PhD Congress (Institute of Biogeochemistry and Pollutant Dynamics), ETH Zürich, 01.04.2016.
- Lienert, J. Einführung Eawag und Entscheidungsanalyse. Workshop und Austausch Gemeindevertreterinnen und -vertreter in möglicher Fallstudie, Eawag und Kanton Solothurn, 05.10.2016.
- Lienert, J., Aubert, A., Belton, V., Haag, F., Marttunen M. Bridging the gap between scientific rigor and practical application in environmental decisions. 84<sup>th</sup> Meeting of EURO Working Group on MCDA, University of Vienna, Austria, 22.–24.09.2016.
- Lienert, J., Haag, F. Messy environmental decisions; a summary of BOR challenges. EURO 2016, 28<sup>th</sup> European Conference on Operational Research, Poznan, Poland 03.–06.07.2016.
- Lienert, J. Making decisions for sustainable water infrastructure planning in an uncertain world. Viennese Seminars in Hydrology, TU Vienna, BOKU Vienna, Vienna, Austria, 12.01.2016.

Marttunen, M., Belton, V., Lienert, J. Are objectives hierarchy related biases observed in practice? EURO 2016, 28<sup>th</sup> European Conference on Operational Research, Poznan, Poland 03.–06.07.2016.

## 2015

- Bertsch, V., Geldermann, J., Lienert, J., Scholten, L., Chair Session: IS-INFRA: MCDA for Infrastructure Planning and Environmental Management, MCDM 2015, 23<sup>rd</sup> International Conference on Multiple Criteria Decision Making, Hamburg, Germany, 2.–7.08.2015.
- Haag, F., Maurer, M., Reichert, P., Lienert, J. Preference elicitation for water infrastructure decisions. Poster and poster flash. Eawag Symposium. Eawag, Dübendorf, Switzerland, 11.09.2015.
- Lienert, J., Stamm, C., M. Funk. Sag mir, wo die Gletscher sind... Eine Ausstellung des Schweizerischen Nationalfonds. Treffpunkt Science City, Rohstoff Erde. ETH Zürich, Switzerland, 25.10.2015.
- Lienert, J., Zheng, J., Scholten, L. Integrating stakeholders in an MCDA-process for sustainable water infrastructure planning. MCDM 2015, 23<sup>rd</sup> International Conference on Multiple Criteria Decision Making, Hamburg, Germany, 2.–7.08.2015.
- Lienert, J. Duygan, M., Zheng, J. Preference stability over time using two weight elicitation methods for wastewater infrastructure planning. EURO – 27<sup>th</sup> European Conference on Operational Research, University of Strathclyde, Glasgow, Scotland, 12.–15.07.2015.
- Lienert, J. (Invited Keynote Speaker) Einbezug von Akteuren zur langfristigen Planung nachhaltiger Wasserinfrastrukturen (SWIP) in einer unsicheren Welt. Statuskonferenz zur BMBF-Fördermassnahme "Intelligente und multifunktionelle Infrastruktursysteme für eine zukünftige Wasserversorgung und Abwassersentsorgung" (INIS). Hamburg, Deutschland, 20.–21.01.2015.
- Scholten, L., Schuwirth, N., Reichert, P., Lienert, J. Tackling uncertainty in MCDA – applied to water infrastructure planning. MCDM 2015, 23<sup>rd</sup> International Conference on, Multiple Criteria Decision Making, Hamburg, Germany, 2.–7.08.2015.
- Schuwirth, N., Lienert, J., Langhans, S., Reichert, P. Conceptual aspects of decision support for environmental management. MCDM 2015, 23<sup>rd</sup> International Conference on, Multiple Criteria Decision Making, Hamburg, Germany, 2.–7.08.2015.

## 2014

- Fischer, M., Logar, I., Lienert, J. Ecosystem services and management – Linking social sciences to ecology. Workshop Surf – ESS. Eawag, Kastanienbaum, Schweiz, 19.05.2014.
- Fischer, M., Logar, I., Lienert, J. Ecosystem services and management – Linking social sciences to ecology. Workshop ECO – ESS. Eawag, Dübendorf, Schweiz, 09.05.2014.
- Lienert, J. netWORKS 3 / INIS: Fachgespräch „Integrierte Bewertung“. ISOE, Frankfurt am Main, Deutschland, 15.12.2014.
- Lienert, J. Input for Workshop „Wissensintegration Forschung – Praxis“. NFP 61 «Nachhaltige Wassernutzung», Swiss National Science Foundation, Berne, Switzerland, 25.11.2014.
- Lienert J. Multikriterielle Entscheidungsanalyse (MCDA) – Abteilung Umweltsozialwissenschaften (ESS), Besuch von KTI Innovationsmentoren, 20. November 2014, Eawag, Dübendorf, 20.11.2014.
- Lienert, J. Zheng, J., Scholten, L. Integrating stakeholders in an MCDA-process for sustainable water infrastructure planning. INFORMS Annual Meeting 2014, San Francisco, CA, USA, 09.–12.11.2014.
- Lienert, J. Blick in die Zukunft – Gesellschaftliche und wirtschaftliche Szenarien. Praxisworkshop, Entscheidungshilfen und Umsetzungswerkzeuge des NFP 61 «Nachhaltige Wassernutzung», Swiss National Science Foundation, Solothurn, Switzerland, 5.11.2014.
- Lienert, J., Maurer, M. Wasserinfrastrukturen nachhaltig planen – Modellierung, Entscheidungsanalyse und Partizipation für Kanal- und Wasserversorgungsnetze. Poster, Abschlusstagung, Ergebnisse des NFP 61 «Nachhaltige Wassernutzung», Swiss National Science Foundation, Solothurn, Switzerland, 5.11.2014.
- Lienert, J., K. Fenner, Johnson, D. Organization of Eawag Symposium, Dübendorf, Switzerland, 12.09.2014.

- Lienert, J. Participation in Joint International Conference of the INFORMS GDN Section and the EURO Working Group on DSS. Toulouse, France, 10.–13.06.2014.
- Lienert, J. Strukturierung Pflanzenzucht-Strategie mit Hilfe der multikriteriellen Entscheidungsunterstützung? Bundesamt für Landwirtschaft, BLE, ETH Zürich, Switzerland, 18.02.2014.
- Lienert, J., Egger, C., Scholten, L. Maurer, M. „Abschlussveranstaltung zum NFP-61-Projekt SWIP, langfristige Planung nachhaltiger Wasserinfrastrukturen“. Organization of information event and workshop with stakeholders from Swiss water sector. Eawag, Dübendorf, 23.01.2014.
- Lienert, J. „Was ist eine nachhaltige Entscheidung? Die multikriterielle Entscheidungsanalyse im Praxistext. Abschlussveranstaltung zum NFP-61-Projekt SWIP, langfristige Planung nachhaltiger Wasserinfrastrukturen“. Eawag, Dübendorf, 23.01.2014.
- Lienert, J. Participation in retreat “Vision Wasserversorgung Basel-Landschaft”, Klausur, Amt für Umweltschutz und Energie, Kanton Basel-Landschaft, Sissach, Switzerland, 14.01.2013.
- Scholten, L., Schuwirth, N., Reichert, P., Lienert, J. Tackling uncertainty in complex MCDA and MAUT problems. INFORMS Annual Meeting 2014, San Francisco, CA, USA, 09.-12.11.2014.
- Scholten, L., Lienert, J. MCDA zur Unterstützung im Wassermanagement. Führungsreise HunzikerBetatech, Eawag, Dübendorf, 15.08.2014.
- Scholten, L., Maurer, M., Lienert, J. Long-term water supply planning with multi-criteria decision analysis. IWA Water, Environment and Climate Conference 2014, Mexico City, Mexico, 20–23.05.2014.

### 2013

- Lienert J, M. Maurer. Sustainable Water Infrastructure Planning, SWIP. 3<sup>rd</sup> Progress Report Meeting/ Final Meeting, NRP 61 Sustainable Water Management, Thun, Switzerland 24.–25.10.2013.
- Lienert, J., K. Fenner, David Johnson. Organization of Eawag Symposium, Dübendorf, Switzerland, 03.09.2013.
- Lienert, J., Langhans, S., Reichert, P. Constructing ecological value functions for river rehabilitation: expert elicitation with different aggregation schemes. 22<sup>nd</sup> International Conference on Multiple Criteria Decision Making. MCDM for Tomorrow's World, Málaga, Spain, 17–21.06.2013.
- Lienert, J. Multi-criteria decision analysis (MCDA) to support environmental management. Eco-Seminar, Eawag, Dübendorf, Switzerland, 07.03.2013.

### 2012

- Lienert, J. Intro cluster decision analysis – Structuring environmental decisions. Social Science Seminar, Eawag, Dübendorf, Switzerland, 29.11.2012.
- Lienert, J., M. Maurer. Bottom up in die Zukunft – Neue Planungsansätze für die Gemeinden. PEAK-Fachtagung: Herausforderungen einer nachhaltigen Wasserwirtschaft, Eawag, Dübendorf, Switzerland, 14.09.2012.
- Lienert, J., C. McArdeall, K. Räsänen. Organization of Eawag Symposium, Dübendorf, Switzerland, 12.09.2012.
- Scholten, L., J. Lienert. Tackling uncertainties in MCDA for sustainable water infrastructure. European Conference of Operational Research. Vilnius, Lithuania, 8.–11.07.2012.
- Lienert, J. Making hard decisions to ensure safe water supply and wastewater disposal in uncertain futures. Risk and Society: Decisions and Responsibility. 21<sup>st</sup> SRA-Europe Meeting, Society for Risk Analysis (SRA) Europe, ETH Zürich, Switzerland, 18.–20.06.2012.
- Lienert, J., M. Maurer. Organization: “Workshop Praxis-Begleitgruppe SWIP: Langfristige Planung nachhaltiger Wasserinfrastrukturen“, Eawag, Dübendorf, Switzerland, 02.05.2012.
- Lienert, J. Workshop: „Transdisziplinäre Wissensproduktion in der Wasserforschung“. Organized by Flurina Schneider (Univ. Berne), Renate Renner (Univ. Graz), AlpS, Innsbruck, Austria, 19.–20.04.2012.
- Scholten, L., J. Lienert, M. Maurer, C. Egger. Sustainable Water Infrastructure Planning. 2<sup>nd</sup> Progress Report Meeting NRP61, Vitznau, Switzerland, 12.–13.03.2012.
- Lienert, J., N. Schuwirth. Using Multi-Attribute Value / Utility Theory to deal with difficult decisions – the case of hospital wastewater. Workshop MCDM; Adrienne Grêt-Regamey, Planning of Landscape and Urban Systems, ETH Zürich, Switzerland, 16.02.2012.

## 2011

- Lienert, J. Multi-criteria decision analysis; a method to support actor involvement and decision making in urban water management. Consumer Behavior Colloquia Autumn Term 2011. Institute for Environmental Decisions (IED), ETH Zürich, Switzerland, 01.12.2011.
- Lienert, J. Participatory decision support in urban water management. SYKE (Finnish Environmental Institutes), Helsinki, Finland, 31.10.2011.
- Fenner, K., K. Räsänen, J. Lienert. Organization of Eawag Symposium, Dübendorf, Switzerland, 05.09.2011.
- Lienert, J., N. Schuwirth. Supporting environmental policy with MCDA: Stakeholders would protect aquatic ecosystems from hospital pharmaceuticals. 21<sup>st</sup> International Conference on Multiple Criteria Decision Making, Jyväskylä, Finland, 13.–17.06.2011.
- Lienert, J., N. Schuwirth. Stakeholders would protect aquatic ecosystems from risks of pharmaceuticals: A hospital case study. 20<sup>th</sup> SRA-Europe Meeting, Society for Risk Analysis (SRA) Europe, Stuttgart, Germany, 06.–08.06.2011.
- Lienert, J., C. Egger, F. Schnetzer, L. Scholten, M. Maurer. Ziele und Alternativen der Wasserinfrastrukturen für das Gebiet der Mönchaltorfer Aa. 2<sup>nd</sup> Workshop with stakeholders from case study „Mönchaltorfer Aa“, Grüningen, Switzerland, 26.05.2011.
- Lienert, J. Multi-attribute value/ utility theory to decide about pharmaceutical reduction in hospital wastewater in a multi-stakeholder setting. PILLS Working Group Meeting, Zwolle, The Netherlands, 09.–11.05.2011.
- Maurer, M., C. Egger, F. Schnetzer, L. Scholten, J. Lienert. SWIP Zukunfts-Workshop. 1<sup>st</sup> Workshop with stakeholders from case study „Mönchaltorfer Aa“, Grüningen, Switzerland, 19.04.2011.
- Maurer, M., C. Egger, F. Schnetzer, L. Scholten, J. Lienert. Sustainable Water Infrastructure Planning (SWIP). NRP-61 Progress Report Meeting, Murten, Switzerland, 01.04.2011.

## 2010

- Lienert, J. Participatory decision making in water management. IRES (Institute for Resources, Environment and Sustainability), UBC (University of British Columbia), Vancouver B.C., Canada, 25.11.2010.
- Lienert, J., Reichert, P., Schuwirth, N. Reducing pharmaceuticals in hospital wastewater – MCDA multi-stakeholder elicitation challenges. Energizing the Future, INFORMS Annual Meeting, Austin, Texas, USA, 7.–10.11.2010.
- Fenner, K., Räsänen, K., Lienert, J. Organization of Action Field Symposium, Eawag, Dübendorf, Switzerland, 07.09.2010.
- Lienert, J., Escher, B.I., Koller, M., Konrad, J., McArdeil, C.S., Reichert, P., Schuwirth, N. Multiple-criteria decision analysis reveals high stakeholder preference to remove pharmaceuticals from hospital wastewater. Poster Action Field Symposium, Eawag, Dübendorf, 07.09.2010.
- Lienert, J. Dealing with highly uncertain risks to aquatic ecosystems. Environmental Decisions: Risks and Uncertainties. Conference organized by the Institute for Environmental Decisions (ETH Zürich) and Chair of Social Psychology (University of Zürich), Monte Verità, Switzerland, 25.–29.04.2010.
- Lienert, J., Schuwirth, N., Reichert, P. MCDA Elicitation challenges in a complex real-world decision to reduce pharmaceuticals in wastewater from communal hospitals. MCDA 71, Meeting of the European Working Group 'Multiple Criteria Decision Aiding', Torino, Italy, 25.–27.03. 2010.
- Lienert, J., Maurer, M., Reichert, P., Morgenroth, E. Sustainable Water Infrastructure Planning. (SWIP). NFP-61 Kick-off meeting, Solothurn, Switzerland, 4.–5.03.2010.
- Lienert, J., Schuwirth, N. Stakeholder Workshop: Multi-Criteria Decision Analysis on how to treat hospital wastewater, Eawag, Dübendorf, Switzerland, 14.01.2010.

## 2009

- Reichert, P., Langhans, S., Lienert, J., Schuwirth, N. River assessment and management – A decision-analytic perspective. Presentation and Mini-Workshop, Eawag, Dübendorf, Switzerland, 02.12.2009.
- Lienert, J., Maurer, M., Reichert, P. Sustainable Water Infrastructure Planning (SWIP) Antragskolloquium NFP 61, Berne, Switzerland, 21.09.2009.

- Fenner, K., Räsänen, K., Lienert, J. Organization of Action Field Symposium, Eawag, Dübendorf, Switzerland, 15.09.2009.
- Lienert, J., Mosler, H.-J. Understanding stakeholders in a decision to reduce pharmaceuticals in hospital wastewater. Symposium (chair J. Lienert): Participation, Fairness, and Stakeholder Analysis. 8<sup>th</sup> Biennial Conference on Environmental Psychology, Zürich, Switzerland, 07.–09.09.2009.
- Lienert, J., Langhans, S., Reichert, P. Eliciting expert values for river rehabilitation. Poster. SPUDM 22, Subjective Probability, Utility, and Decision Making Conference., Rovereto, Italy, 23.–27.08.2009.
- Lienert, J., Langhans, S., Reichert P. A decision theoretic approach to river assessment. MCDA 69: 69<sup>th</sup> meeting of the Euro Working Group "Multiple Criteria Decision Aiding". Faculté Polytechnique de l'Université Libre de Bruxelles & Faculté Polytechnique de Mons, Brussels, Belgium, 2.–3.04.2009.

## 2008

- Lienert, J. Should we apply the precautionary principle to deal with pharmaceuticals in hospital wastewater? Workshop Ethical Business Decision Making in a Global Environment. Mannheim University, Germany, 4.–5.12.2008.
- Lienert, J. Quiz: Tabletten im Klo. Computer tool for internet application to provide information and receive feedback from general public. Nacht der Forschung, Zürich, Switzerland, 26.09.2008.
- Fenner, K., Ibelings, B., Lienert, J. Organization of Action Field Symposium, Eawag, Dübendorf, Switzerland, 16.09.2008.
- Lienert, J. How to handle hospital wastewater. Poster for Action Field Symposium, Eawag, Dübendorf, Switzerland, 16.09.2008.
- Lienert, J. How to deal with pharmaceuticals in hospital wastewater: a stakeholder analysis. Symposium (chair J. Lienert): Water, energy and environmentally concerned behavior. 20<sup>th</sup> IAPS Conference "Urban diversities, biosphere and well-being: designing and managing our common environment", Rome, Italy, 28.07.–01.08.2008.
- Lienert, J. Combining multi-criteria decision analysis with stakeholder analysis to support complex real-world decision making – the case of hospital wastewater. Action Field Urban Water Management, Eawag, Dübendorf, Switzerland; presentation and discussion, 08.07.2008.
- Lienert, J. Pharmaceuticals in hospital wastewater – rational and irrational aspects of decision making. Rationality and irrationality in decision making: the role of intuition and emotion. Summer School, Catholic University of the Sacred Heart, Dept. of Psychology, Milano, Italy, 30.06.–03.07.2008.
- Lienert, J. Participation in 2<sup>nd</sup> Interreg partner meeting of project "PILLS" (Pharmaceutical Input and Elimination from Local Sources), Waterschap Groot Salland, Zwolle, The Netherlands, 20./21.02.2008.

## 2007

- Lienert, J. A stakeholder perspective on how to handle hospital wastewater. 1<sup>st</sup> Interreg partner meeting project "PILLS" (working title), Emschergenossenschaft, Essen, Germany, 20./21.11.2007.

## **Novaquatis**

### 2008

- Lienert, J., Larsen, T. Transdisziplinäre Forschung am Beispiel des NoMix WCs. td-award ceremony, swiss academies award for transdisciplinary research 2008, td-conference 2008, Zürich, Switzerland, 27.11.2008.
- Lienert, J. The day after Novaquatis: Stakeholder participation and decision making. STOWA-meeting, Platform Group, Utrecht, The Netherlands, 30.10.2008.
- Lienert, J. Verringerung der Schadstoffbelastung durch Pharmaka mittels Urinseparierung und ökotoxikologische Relevanz. Schlussveranstaltung BAFU, Erkennung und Priorisierung von Mikroverunreinigungen (Micropoll I), Berne, Switzerland, 26.06.2008.



Lienert, J. NoMix – Ein Abwassersystem der Zukunft? Vortrag und Diskussion am Café Scientifique Basel (das familiäre Wissenschaftsforum der Universität): „Wasser – Das blaue Gold“, University of Basel, Switzerland, 08.06.2008.

### 2007

Lienert, J. Urinseparierung – Schlussfolgerungen nach sechs Jahren transdisziplinärer Forschung in Novaquatis. 1. Österreichischer Kleinkläranlagentag, Universität für Bodenkultur, Wien, Austria, 27.09.2007.

Lienert, J. NoMix – Neue Wege in der Siedlungswasserwirtschaft. RotaryClub Uster, Maur, Switzerland, 16.08.2007.

Lienert, J. Novaquatis – A Cross-Cutting Project about NoMix Technology. Visit of delegates from Singapore-ETH Center (SEC) for Global Environmental Sustainability, Eawag, 21.03.2007.

Lienert, J. Reducing micropollutants with source control: Substance flow analysis of 212 pharmaceuticals in feces and urine. IWA (International Water Association) Advanced Sanitation Conference, Aachen, Germany, 12.–13.03.2007.

Lienert, J. Eine gute Idee, aber das will doch keiner. Mix oder NoMix? Urinseparierung als Alternative in der Siedlungswasserwirtschaft. Eawag Infotag 2007, ETH Zürich, Switzerland, 07.03.2007.

### 2006

Lienert, J. Presentation: Das Novaquatis-Projekt der Eawag, Schweiz. Abschlussseminar des EU-Demonstrationsvorhabens SCST (Sanitation Concepts for Separate Treatment); KompetenzZentrum Wasser Berlin, Germany, 14.12.2006.

Participation at Workshop “Ressourcenmanagement im Umbruch” of the “Deutsche Bundesstiftung Umwelt”, Osnabrück, Germany, 30.11.–1.12.2006

Lienert, J., T. Larsen. Organization, presentation, visit of cantonal library BL in Liestal and urine treatment unit: Workshop with delegates from STOWA, the Netherlands at Eawag, Dübendorf, 13.–14.11.2006.

Lienert, J. Update: Verringerung der Schadstoffbelastung durch Pharmaka mittels Urinseparierung und ökotoxikologische Relevanz. Workshop FOEN (Federal Office for the Environment): “Erkennung und Priorisierung von Mikroverunreinigungen und mögliche Wandlung der heutigen Siedlungswasserwirtschaft”. Berne, 16.06.2006.

Lienert, J. Novaquatis Update und Bedeutung Pilotprojekte Basel-Landschaft. UrinPur-Sitzung des Amtes für Industrielle Betriebe Basel-Landschaft (AIB), Liestal, 2.06.2006.

Lienert J., Organization and presentation, visit of cantonal library BL in Liestal and urine treatment unit: Workshop with delegates from Linz Service AG, Austria at Eawag, 28.02.2006.

Lienert, J. Von der Bootsbauerin zur Umweltwissenschaftlerin. Der flexible Mensch – Ein Festival der Biographien, KME, Kantonale Maturitätsschule für Erwachsene, Zürich, 13.05.2006.

### 2005

Lienert, J. Novaquatis and the NoMix toilet – A new approach to urban water management. Visit Prof. H.J.S. Fernando, Dpt. of Mechanical and Aerospace Engineering, Arizona State University and Director Environmental Fluid Dynamics Program, Eawag, 03.11.2005.

Lienert, J. Novaquatis and the NoMix toilet – A new approach to urban water management. Visit Dr. David Garman, Executive Director CRC, Redfern Australia, Eawag, 23.09.2005.

Lienert, J. Novaquatis und das NoMix WC – Wege zu einer nachhaltigen Siedlungswasserwirtschaft. Visit E. Hafen, ETH Zürich president, Eawag, 13.07.2005.

Lienert, J. Making the first step towards a more sustainable urban water management system – with the NoMix toilet. Presented at European Water Day, 84<sup>th</sup> ASTEE congress, Paris, France. 02.06.2005.

Lienert, J. Verringerung der Schadstoffbelastung durch Pharmaka mittels Urinseparierung und ökotoxikologische Relevanz. Kickoff-Workshop BUWAL of the research projects “MicroPoll”, Berne, 06.04.2005.

Lienert, J. Massnahmen an der Quelle: das NoMix WC. Visit “Lions Club Zürich-Oerlikon”. Eawag, 27.01.2005.

Lienert, J. Information about Eawag. Visit “Lions Club Zürich-Oerlikon”, Eawag, 27.01.2005.

## 2004

- Lienert, J. Umsetzung in Pilotprojekten und Akzeptanz. Information afternoon (instead of "Friday seminar") „Novaquatis: Erfahrungen und Resultate“, Eawag, 18.11.2004.
- Lienert, J. Young users accept NoMix toilets – a questionnaire survey on urine source separating toilets in a college in Switzerland. Presented at 4<sup>th</sup> IWA World Water Congress and Exhibition, Marrakech, 19.-24.9.2004.
- Lienert, J. Novaquatis and the NoMix toilet – a new approach to urban water management. Visit from students from IHE Delft, The Netherlands, Eawag, 11.6.2004.
- Lienert, J. Novaquatis – Transdisziplinäre Wissenschaft am Beispiel einer Toilette. Colloquium practice and theory of transdisciplinary science "Rund ums Wasser", MGU (Programm Mensch Gesellschaft Umwelt), University Basel, 13.5.2004.
- Lienert, J. Micropollutants in urine, the situation in Switzerland. Workshop "New sanitation concept with separation technology – open questions – lack of knowledge – research tasks", Linz, Austria, 23.–24.3.2004.
- Lienert, J. Novaquatis und das NoMix WC – Wege zu einer nachhaltigen Siedlungswasserwirtschaft. Visit of a delegation of the "Chinese People's Institute of Foreign Affairs" with Dr. Thomas Wagner, Eawag, 19.2.2004.

## 2003

- Lienert, J. Novaquatis und das NoMix WC – Wege zu einer nachhaltigen Siedlungswasserwirtschaft. Swissmem Fachgruppe Umwelttechnik (Association of 26 Swiss industrial firms, which produce technical equipment for environmental application, mainly for the water sector), Eawag, 21.10.2003.
- Lienert, J. Novaquatis, a cross-cutting Eawag project. The NoMix toilet – a new approach to urban water management. External peer-review of Eawag, 30.09.2003.
- Lienert, J. Novaquatis und das NoMix WC – Wege zu einer nachhaltigen Siedlungswasserwirtschaft. Meeting „Zukunftsfähige Gebäude“, novatlantis (Sustainability in the ETH-domain) and Building Department of the canton Basel-Stadt, Basel, 19.9.2003.
- Lienert, J., T.A. Larsen. NoMix-WC: Wie gut ist die Akzeptanz? Eawag Infotag 2003 "Siedlungsentwässerung im Wandel", ETH Zürich, 17.9.2003.
- Lienert, J., T.A. Larsen. Introducing urine separation in Switzerland: Novaquatis, an interdisciplinary research project. 2<sup>nd</sup> International Symposium on Ecological Sanitation, "ecosan – closing the loop", Lübeck, 7.–11.4.2003.
- Lienert, J. Chair of session B: "Social and Economic Aspects". In: 'ecosan – closing the loop' Proceedings of the 2<sup>nd</sup> International Symposium on Ecological Sanitation in Lübeck 7.–11.4.2003. Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) GmbH (ISBN 3-00-012791-7): 115.
- Lienert, J. Novaquatis und das NoMix WC – Wege zu einer neuen Siedlungswasserwirtschaft. Seminar "Nachhaltige Sanitätskonzepte – Anwendungsmöglichkeiten in Luxemburg?" Kompetenzzentrum technischer Umweltschutz CRTE / CRP Henri Tudor, Esch-sur-Alzette, Luxemburg, 17.3.2003.

## 2002

- Larsen, T.A., J. Lienert (presented by J. Lienert for invited speaker T. Larsen). Societal implications of re-engineering the toilet. Leading Edge Conference Series "Sustainability in the Water Sector" of the International Water Association, IWA. Venice, 25.–26.11.2002.
- Lienert, J. Novaquatis – Ein Querprojekt der Eawag. Semester projects Urban Water Management, ETH Zürich (Prof. Willi Gujer) about urine source separation in Glattpark, Zürich, 24.10.2002.
- Lienert, J., M. Haller, A. Berner, M. Stauffacher, T.A. Larsen. How farmers in Switzerland perceive fertilizers from recycled anthropogenic nutrients (urine). 1<sup>st</sup> International Conference "From Nutrient Removal to Recovery" of the International Water Association, IWA. Proceedings, pp. 89–96, Amsterdam, 2.–4.10.2002.
- Pahl-Wostl, C., A. Schönborn, N. Willi, J. Muncke, and T.A. Larsen (presented by J. Lienert). Investigating consumer attitudes towards the new technology of urine separation. 1<sup>st</sup> International Conference "From Nutrient Removal to Recovery" of the International Water Association, IWA. Proceedings, pp. 209-216. Amsterdam, 2.–4.10.2002.

Lienert, J. Urban water management (Sww) and Novaquatis. Visit of ca. 35 students from IHE Delft, The Netherlands, Eawag, 26.6.2002.

Lienert, J. Novaquatis – Konzept und Ergebnisse. Workshop “Zukunftsfähiges Abwassermanagement Lamberts-mühle”, Burscheid, Germany, 6.6.2002.

#### 2001

Larsen, T.A., J. Lienert, M. Maurer. Ergebnisse der Fokusgruppenumfrage (Nova 1-1) und Forschung in Novaquatis. Closing event for focus group participants, Eawag, 22.10.2001.

### From Diploma and PhD thesis

#### 2002

Fischer, M., J. Lienert. Institute of Environmental Sciences, University of Zürich, Switzerland. Habitat fragmentation affects the wetland specialist *Primula farinosa* in NE-Switzerland. “Extinction Thresholds Conference” organized by the Spatial Ecology Research Programme (Dep. of Ecology and Systematics, Univ. of Helsinki), Abstracts, p. 8, Helsinki, 2.–5.9.2002.

Fischer, M., J. Lienert. Institute of Environmental Sciences, University of Zürich, Switzerland. Habitat fragmentation affects the wetland specialist *Primula farinosa* in NE-Switzerland. 15<sup>th</sup> Annual Meeting of the Section Plant Population Biology of the Society for Ecology of Germany, Switzerland, and Austria. “Metapopulation Dynamics and Landscape Fragmentation”. Abstract Book, p. 15, Prague, 9.–12.5.2002.

#### 2001

Lienert, J., M. Fischer, M. Diemer. Institute of Environmental Sciences, University of Zürich, Switzerland. Genetic variability, fitness, and local extinctions of *Swertia perennis* L. (Gentianaceae) in a fragmented landscape. Verhandlungen der Gesellschaft für Ökologie GfÖ, 31. „The Functional Importance of Biodiversity”, G. Zotz, and Ch. Körner (eds.), Parey, Basel, p. 38, Basel, 27.–31.8.2001.

#### 2000

Lienert, J. Institute of Environmental Sciences, University of Zürich, Switzerland. Persistence and local extinction of *Swertia perennis* L. (Gentianaceae) populations during the last century. SWIFCOB 2 (swiss forum on conservation biology). “How to live and survive in a changing farmland”. Abstracts, p. 4, Winterthur, 13.10.2000.