

## Curriculum vitae

### MEIERHOFER, Regula

Languages: German, English, French, Italian, Spanish, Nepali

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### Education

2012 Venture lab. Training for Start-ups der Kommission für Technologie und Innovation. KTI

1988 -1994 Studies of Environmental Science and Environmental Hygiene at the Swiss Federal Institute of Technology (ETH) Zürich

### Professional Experience

2013 - current **Eawag/ Sandec. (Department of Water and Sanitation in Developing Countries at the Swiss Federal Institute of Environmental Science and Technology)**  
Head Research Group "Safe Water Promotion": Evaluation of concepts, technologies and promotion strategies for safe drinking water in developing countries.

2007 - 2013 **Eawag/ Sandec.** Head SODIS Reference Center: Management of a global program promoting household water treatment and improved hygiene in developing countries.  
Research on evaluation of adapted technologies for household water treatment, promotion strategies, behaviour change and business models.

2001 - 2007 **Eawag/ Sandec.** Project Officer: Project Management, capacity building of partners in the South, knowledge management, fundraising.

1998 - 2001 **Padma AG.** Scientist: Project and Resource Management, Quality Control, Management of Fair Trade Projects. Knowledge management.

1998 **ORL, Institute for National Regional and Local Planning ETH Zurich.**  
Scientist: Studies on Energy Consumption and Sustainable Development

1995 -1997 **FAO Representation in Nepal (United Nations Food and Agricultural Organization).** Programme Officer: Programme management of projects with a focus on sustainable development, gender and participatory planning.

1994 - 1995 **INFRAS.** Scientist: development trend assessment in the Integrated Hill Development Project in Dolakha, Nepal, with, Group for environmental consulting

1992 - 1993 **Institute of Human Ecology, EAWAG/ ETHZ:** Undergraduate Assistant: research assistance on individual and global responsibility, sustainable development.

## Teaching Activities

- Swiss Federal Institute of Technology (ETH) Zürich, Switzerland
- Swiss Federal Institute of Technology (EPFL) Lausanne, Switzerland

## Other professional activities

- Steering committee member of the Swiss Expert Group and Community of Practice in the Water and Sanitation Sector (AGUASAN)
- Member of the Board of the Solaqua Foundation

## Awards and Professional Recognitions

- Swiss Sustainability Prize prix eco.ch, March 2017 with the project "Safe Drinking Water for schools and communities in Uganda with Gravity Driven Membrane Filtration"
- Special Prize of the Energy Globe Award, October 2004, with the project "SODIS, Solar Water Disinfection"
- Dubai International Award Best Practice Award with the project "SODIS, Solar Water Disinfection", UN-Habitat, 2002

## Publications

Dössegger L., A. Tournefier A., Germann L., Gärtner N., Huonder T., Eteno C., Wanyama K., Ouma H., Meierhofer R. (2021): Assessment of low-cost, non-electrically powered chlorination devices for GDM water kiosks in Eastern Uganda, *Waterlines*, 40:2, 92-106

Gärtner, N., Germann, L., Wanyama, K. Ouma H., Meierhofer, R. (2021): Keeping Water from Kiosks Clean: Strategies for Reducing Recontamination during Transport and Storage in Eastern Uganda. *Water Research X*, 10: 100079.

Shrestha A., Six J., Dahal D., Shrestha R., Bhatta M., Marks S., Meierhofer R. (2020): Association of nutrition, water, sanitation and hygiene practices with children's nutritional status, intestinal parasitic infections and diarrhoea in rural Nepal: a cross-sectional study. *BMC Public Health*, 20 (1): 1241.

Meierhofer, R., Rubli, P., Oremo, J., Odhiambo, A. (2019): Does Activated Silver Reduce Recontamination Risks in the Reservoirs of Ceramic Water Filters? *Water*, 11(5), 1108.

Meierhofer, R., Wietlisbach, B., Matiko, C. (2019): Influence of container cleanliness, container disinfection with chlorine, and container handling on recontamination of water collected from a water kiosk in a Kenyan slum. *J Water Health* 17 (2): 308-317

Daniel, D., Diener, P., Pande, S., Jansen S., Marks, S., Meierhofer, R., Bhatta, M., Rietveld, L. (2019) Understanding the effect of socio-economic characteristics and psychosocial factors on household water treatment practices in rural Nepal using Bayesian Belief Networks. *International Journal of Hygiene and Environmental Health*, 222, 5.

Meierhofer, R., Bänziger, C., Deppeler, S., Kunwar, B.M., Bhatta M. (2018): From Water Source to Tap of Ceramic Filters—Factors That Influence Water Quality Between Collection and Consumption in Rural Households in Nepal. *Int. J. Environ. Res. Public Health*, 15, 2439.

Meierhofer, R., Rubli, P., Dreyer, K., Ouma, H., Wanyama, K. & Peter-Varbanets, M. (2017) Membrane filtration reduces recontamination risk in chlorinated household water containers. Local action with international cooperation to improve and sustain water, sanitation and hygiene services - *Proceedings of the 40th WEDC International Conference*.

M. Peter-Varbanets, K. Dreyer, N. McFadden, H. Ouma, K. Wanyama, C. Eteno & R. Meierhofer (2017) Evaluating novel gravity-driven membrane (GDM) water kiosks in schools. Local action with international

cooperation to improve and sustain water, sanitation and hygiene services - *Proceedings of the 40th WEDC International Conference*.

Carratalà A., Dionisio Calado A., Mattle MJ., Meierhofer R., Luzi S., Kohn T. (2016) Solar disinfection of viruses in polyethylene terephthalate bottles. *Appl. Environ Microbiol.* 82:279–288

Bogler, A., Meierhofer R. (2015). The challenge of producing and marketing colloidal silver water filters in Nepal. *Water*, 7, 3599-3612.

Meierhofer, R., Flückiger, A.C., Gebauer, H. (2016). Do sales models influence the use of household water treatment products in rural areas of Kenya and Bolivia? *Aqua. Journal for Water Supply and Technology*, 65 (1) 87-102.

Luzi, S., Tobler, M., Suter, F., Meierhofer, R. (2016) SODIS manual. Guidance on solar water disinfection. *Eawag/Sandec*, Dübendorf, ISBN Nr. 978-3-906484-59-4

Suter, F., Cavin, V., Donahue P., House S., Lehnhard Y., Luzi S., Peter S., Tobler M., Walker K., Meierhofer R. (2014) Safe Water School. Training Manual, 2nd edition (english version). *Eawag/Sandec*, Dübendorf, ISBN Nr. 978-3-906484-62-4.

Hering, J.G., Hoffmann, S., Meierhofer, R., Schmid, M., Peter, A.J. (2012). Assessing the societal benefits of applied research and expert consulting in water science and technology. *GAIA*, 21 (2), pp. 95-101.

Schulte, M., Sanchez, E., Saladin, M., Meierhofer, R. (2011). Promoting solar water disinfection in schools: Experiences and lessons learnt in Latin America. *The Future of Water, Sanitation and Hygiene in Low-Income Countries: Innovation, Adaptation and Engagement in a Changing World - Proceedings of the 35th WEDC International Conference*.

Peter-Varbanets, M., Johnston, R., Meierhofer, R., Kage, F., Pronk, W. (2011). Gravity-driven membrane disinfection for household drinking water treatment. *The Future of Water, Sanitation and Hygiene in Low-Income Countries: Innovation, Adaptation and Engagement in a Changing World - Proceedings of the 35th WEDC International Conference*.

Tamas A., Wehrle F., Wojtalla K., Meierhofer R. (2011): Assessment of Long-Term Sustainability of Former Eawag HWTS Projects, *Sandec News*. Nr. 12

Graf J., Zebaze S.T., Kemka N., Niyitegeka D., Meierhofer R., Pieboji J.G. (2010): Health gains from solar water disinfection (SODIS): evaluation of a water quality intervention in Yaounde', Cameroon, *Journal of Water and Health*, 08 (4), pp. 779-796

Meierhofer R., Landolt G. (2009) Factors supporting the sustained use of solar water disinfection - Experiences from a global promotion and dissemination programme. *Desalination* 248, pp. 144-151

Lantagne D., Meierhofer R., Allgood R., McGuigan K.G., Quick R. (2009) Comment on "Point of Use Household Drinking Water Filtration: A Practical, Effective Solution for Providing Sustained Access to Safe Drinking Water in the Developing World." *Environ. Sci. Technol.* 43 (3), pp. 968-969

Luzi, S., Gurung, P., Meierhofer, R., Wegelin, M. (2009). User acceptance: The key to evaluating SODIS and other methods for household water treatment and safe storage. *Water, Sanitation and Hygiene: Sustainable Development and Multisectoral Approaches - Proceedings of the 34th WEDC International Conference*.

Schmid P., Kohler M., Meierhofer R., Luzi S., Wegelin M. (2008) Does the reuse of PET bottles during solar disinfection pose a health risk due to the migration of plasticisers and other chemicals into the water. *Water Research* 42:5054 - 5060

Graf J., Meierhofer R., Wegelin M., Mosler H.-J. (2008) Water disinfection and hygiene behaviour in an urban slum in Kenya: impact on childhood diarrhoea and influence of beliefs. *International Journal of Environmental Health Research* Vol. 18, No. 5: 335–355

Meierhofer, R. (2006) Training Manual for SODIS Promotion. *Eawag/Sandec* Nr. 13/06

Meierhofer, R., et al. (2002). Solar Water Disinfection. A Guide for the application of SODIS. *Eawag/Sandec* Nr. 06/02, Dübendorf, ISBN Nr. 3-906484-24-6