Jörg Rieckermann

ORCID ID 0000-0003-4227-2429
Urban Water Management Department (SWW), Eawag, CH-8600 Dübendorf
joerg.rieckermann@eawag.ch • +41 (58) 765-5397
http://www.tinyurl.com/joerg-rieckermann

EDUCATION

ETH, Eidgenössische Technische Hochschule Zürich, Zürich, CH

Dr. sc. techn. in Environmental Engineering — 2001 – 2005
- PhD Thesis: Quantification of exfiltration from sewers with tracers

Leibniz Universität Hannover, Hannover, D

Dipl. Ing. Water Management — 1994 – 2000
- MSc Thesis: Water Quality Modelling of the river Innerste

PROFESSIONAL EXPERIENCE

Eawag, Swiss Federal Institute of Aquatic Science & Technology, Dübendorf
Urban Water Management Department — 2008 – Present

San Diego State University, San Diego,
Geography Department — 2006 – 2008

Eawag, Swiss Federal Institute of Aquatic Science & Technology, Dübendorf
Post-Doctoral Researcher — 2005 – 2006

Eawag, Swiss Federal Institute of Aquatic Science & Technology, Dübendorf
Researcher, PhD candidate — 2001 – 2005

RESEARCH INTERESTS

Urban Hydrology, Environmental Systems Analysis, Monitoring, Uncertainty Analysis, Sewer Epidemiology

SELECTED PROFESSIONAL ACTIVITIES

International ”Aqua Urbanica” conference
Member of scientific and organizing committee — 2009 – Present

Swiss Wastewater Association (VSA)
Member of working group ”Stormwater guideline” — 2014 – Present

International workshop ”Urban Rain” on precipitation in Urban Areas
Member of scientific committee — 2009 – Present

International Working Group on Data and Models, IWA
Member — 2007 – Present

REVIEWER

Environmental Science and Technology, Hydrology and Earth System Sciences, Water Research, Water Resources Research, Water Science and Technology, Urban Water, Stochastic Environmental Research and Risk Assessment, *Danish Technical University, Dutch Technology Foundation STW*

SELECTED RECENT PUBLICATIONS

JOURNALS

Del Giudice, D., Albert, C., Rieckermann, J., Reichert, P. “Describing the catchment-averaged precipitation as a stochastic process improves parameter and input estimation”, submitted to *Water Resources Research*

Fencl M., Rieckermann, J., Sýkora, P., Stránský, P., Bareš, V. “Commercial microwave links instead of rain gauges: fiction or reality?,” *Water Science & Technology*, doi: 10.2166/wst.2014.466

Gosset, M., Kunstmann, H., Zougmore, F., Cazenave, F., Leijnse,H., Uijlenhoet, R., Chwala, C., Keis, F., Doumounia, A., Boubakar, B., Kacou, M., Alpert, P., Messer, H., Rieckermann, J., Hoedjes, J. “Improving Rainfall Measurement in gauge poor regions thanks to mobile telecommunication networks,” *Paper Bulletin of the American Meteorological Society* doi: 10.1175/BAMS-D-15-00164.1

Dürrenmatt, D.J., Del Giudice, D., Rieckermann, J.,“Dynamic time warping improves sewer flow monitoring,” *Water Research*, doi: 10.1016/j.watres.2013.03.051

Sikorska, A. E., Scheidegger, A., Banasik, K., Rieckermann J., “Considering rating curve uncertainty in water level predictions”, doi: 10.5194/hess-17-4415-2013

Staufer, P., Scheidegger, A., Rieckermann, J. “Assessing the performance of sewer rehabilitation on the reduction of infiltration and inflow, ” doi: 10.1016/j.watres.2012.07.001

Sikorska, A.E., Del Giudice, D., Banasik, K., Rieckermann, J., "The value of streamflow data in improving TSS predictions - Bayesian multi-objective calibration", *Journal of Hydrology*, doi:10.1016/j.jhydrol.2015.09.051.

Del Giudice, D., Löwe, R., Madsen, H., Mikkelsen, P.S., Rieckermann, J., "Comparing two stochastic techniques for reliable urban runoff predictions by modeling systematic errors", *Water Resources Research*, doi:10.1002/2014WR016678.

Del Giudice, D., Reichert, P., Bares, V., Albert, C., Rieckermann, J., "Model bias and complexity - understanding the effects of structural deficits and input errors on runoff predictions", Environmental Modelling & Software, doi:10.1016/j.envsoft.2014.11.006.

Del Giudice, D., Honti, M., Scheidegger, A., Albert, C., Reichert, P., Rieckermann, J., "Improving uncertainty estimation in urban hydrological modeling by statistically describing bias", *Hydrol. Earth Syst. Sci.*, doi:10.5194/hess-17-4209-2013.

Neumann, M. B., Rieckermann, J., Hug T., Gujer W., "Adaptation in hindsight: Dynamics and drivers shaping urban wastewater systems," in Journal of Environmental Management, doi:10.1016/j.jenvman.2014.12.047.

REVIEWS

M. Rutsch, J. Rieckermann, J. Cullmann, J.B. Ellis, J. Vollertsen, P. Krebs, "Towards a better understanding of sewer exfiltration," in *Water Research*, doi:10.1016/j.watres.2008.01.019.

BOOK CHAPTERS

Rieckermann J., (2008) "Occurrence of illicit substances in sewers" in In Aquae Veritas?, ed. Frost, N., European Monitoring Center for Drugs and Drug Addiction Insights Series No. 9, pp. 53 -72. ISBN 978-92-9168-317-8

Rieckermann J., Kracht O. and Gujer W. (2010) "New Measurement Methods: Exfiltration Methods" in Assessing Infiltration and Exfiltration on the Performance of Sewer Systems – the APUSS project, Eds.: Ellis, J.B. and Bertrand-Krajewski, J.L., IWA Publishing, London. ISBN: 9781843391494

Ellis, B.J., Bertrand-Krajewski , J.L., Revitt, M.D., Rieckermann J., (2010) "APUSS: Assessing the significance of infiltration and exfiltration on the performance of urban sewer systems" in Assessing Infiltration and Exfiltration on the Performance of Sewer Systems – the APUSS project, Eds.: Ellis, J.B. and Bertrand-Krajewski, J.L., IWA Publishing, London. Publication Date: 10 Feb 2010, ISBN: 9781843391494

TECHNICAL REPORTS

VSA (2014) Bemessung, Gestaltung, Bau und Betrieb der Anlagen im Entwässerungsnetz, Technische Richtlinie Band 2 - Regenbecken, (Design, Construction and Operation of strucures in the urban drainage network, Technical guideline, Vol. 2 - Retention tanks, in German), p. 37, Association of Swiss wastewater professionals, Zurich.

VSA (2013) Bemessung, Gestaltung, Bau und Betrieb der Anlagen im Entwässerungsnetz, Technische Richtlinie Band 1, (Design, Construction and Operation of strucures in the urban drainage network, Technical guideline, Vol. 1, in German), p. 37, Association of Swiss wastewater professionals, Zurich

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