

CURRICULUM VITAE

Dr.-Ing. Jörg E. Drewes, Associate Professor

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EDUCATION

Doctorate in Environmental Engineering (Dr.-Ing.), Technical University of Berlin, Germany	1997
Dipl. Ing. Environmental Engineering (M.S., magna cum laude), Technical University of Berlin	1992
Cand. Ing. Environmental Engineering (B.S.), Technical University of Berlin, Germany	1987

PROFESSIONAL EXPERIENCE

5/2006-present: **Associate Professor**

Environmental Science and Engineering Division, Colorado School of Mines, Golden CO.

Funded Research:

- Development of Surrogates To Determine the Efficacy of Groundwater Recharge Systems for The Removal of Trace Organic Chemicals. 2006-2008. Principal Investigator. Co-PIs Drs. Shane Snyder (SNWA) and Eric Dickenson (CSM). WaterReuse Foundation WRF-05-004.
- Evaluation of River Bank Filtration Systems to Optimize Removal of Bulk Organic Matter, Emerging Organic Micropollutants, and Nutrients. 2005-2007. Awwa Research Foundation (AwwaRF). AwwaRF 3081. Co-Principal Investigator, PI Ken Thompson (CH2MHill).
- Aquifer Recharge and Recovery Testing City of Aurora. 2005-2006. PI. CH2MHill/City of Aurora, Colorado.
- Desalination Product Water Recovery and Concentrate Volume Minimization. 2005-2007. Co-PI, PI S. Sethi (Carollo Engineers). Awwa Research Foundation #3030.
- Comprehensive Review of Methods, Occurrence, and Treatment of Endocrine Disrupting and Pharmaceutically Active Compounds, and Personal Care Products in Drinking Water. 2005-2006. Awwa Research Foundation (AwwaRF 3033). Co-PI. PI Dr. Shane Snyder (SNWA), Co-PIs Drs. R. Hulsey and R. Pleus.
- Onsite Wastewater Source Characterization and Relevance to System Design and Performance. 2005-2007. Co-PI, PI K. Lowe (CSM). Water Environment Research Foundation.
- Development of Indicators and Surrogates for Chemical Contaminants in Water Reclamation Systems. 2005-2006. PI. Co-PIs D. Sedlak (UC-Berkeley), S. Snyder (SNWA). WaterReuse Foundation.
- Contributions of Household Chemicals and Household Commodities to Wastewater and the Environment. 2004-2007. PI. Co-PI S. Snyder. Water Environment Research Foundation.

Funded Teaching Initiatives:

- Environmental Engineering Teaching Equipment. PI. CSM Technology Fee Fund. 2004. \$12,000

Divisional Duties Include:

- Chair, ESE Facilities and Space Committee
- Search Committee, Environmental Engineering faculty position, AY06/07
- Computer Committee
- International Contacts
- CSM Research Council (AY 03607)
- Faculty Advisor to the Rocky Mountain AWWA/WEF Student Chapter at CSM

Courses Taught/Educational Initiatives:

- ESGN/EGGN 454 Water Supply Engineering
- ESGN 530 Environmental Engineering Pilot Plant Laboratory
- ESGN 603 Advanced Water Treatment Engineering and Reuse

8/2001-4/2006: Assistant Professor

Environmental Science and Engineering Division, Colorado School of Mines, Golden CO.

Funded Research:

- Optimizing Filtration Pre-Treatment Processes Through State-of-the-Art Floc Particle Characterization. 2004-2006. PI. Awwa Research Foundation.
- Fate of Trace Organic Compounds through Soil-Aquifer Treatment. 2003-2004. PI. Co-PI G. Amy. Gwangju Institute of Science and Technology, South Korea.
- Rejection of Trace Organic Compounds by Reverse Osmosis and Nanofiltration Membranes. 2004-2005. Co-PI, PI G. Amy (CU-Boulder). National Science Foundation/Membrane Applied Science and Technology.
- Comparison of nanofiltration and reverse osmosis in terms of water quality and operational performance for treating recycled water. 2004-2006. PI. Co-PI G. Amy. Awwa Research Foundation/WateReuse Foundation/West Basin Municipal Water District/CA Department of Water Resources.
- Multi-beneficial use of co-produced water through high-pressure membrane treatment and capacitive deionization technology. 2004-2005. PI. Co-PI P. Xu (CSM). U.S. Bureau of Reclamation/ Mendell Energy, Inc.
- Field Performance Evaluation of Engineered Pretreatment Units and Their Effects on Biozone Formation in Soils and System Purification Efficiency. Co-PI, PI R. Siegrist (CSM). NDWRCDP.
- Rejection of Wastewater-derived Micropollutants in High-pressure Membrane Applications leading to Indirect Potable Reuse. 2002-2005. PI. Co-PI G. Amy. WateReuse Foundation.
- The Use of Bioassays and Chemical Measurements to Assess the Removal of Endocrine Disruptors in Water Reclamation Processes. 2002-2005. Co-PI, PI W. Sonzogni (Wisconsin State Laboratory of Hygiene). Water Environment Research Foundation.
- Investigation on Soil-Aquifer Treatment for a Sustainable Water Reuse. 2001-2003. PI. American Water Works Association Research Foundation/ U.S. Environmental Protection Agency.

Funded Teaching Initiatives:

- Development of an Integrated Environmental Teaching Laboratory (IETL). PI. CSM Technology Fee Fund. 2002. \$33,808.
- Portable data acquisition systems for ESE graduate and undergraduate teaching laboratories. Co-PI. CSM Technology Fee Fund. 2003. \$22,026.
- Environmental Engineering Teaching Equipment. PI. CSM Technology Fee Fund. 2004. \$39,136.

Divisional Duties Include:

- Undergraduate Studies Committee (until Oct. 2002)
- Chair, ESE Facilities and Space Committee
- Member, ESE Executive Committee
- Search Committee, Environmental Engineering faculty position, AY02/03
- Search Committee, ESE Division Director position, AY02/03
- Computer Committee
- International Contacts
- CSM Research Council (AY 03/04; AY 04/05)
- Poster Judge, 12th Annual Colorado School of Mines Research Fair Competition, April 5, 2002
- Faculty Advisor to the Rocky Mountain AWWA/WEF Student Chapter at CSM

Courses Taught/Educational Initiatives:

- ESGN/EGGN 454 Water Supply Engineering (redeveloped Spring 2002)
- ESGN 530 Environmental Engineering Pilot Plant Laboratory (redeveloped Spring 2003)
- ESGN 603 Advanced Water Treatment Engineering and Reuse (new offering Fall 2002)
- ESGN 598S Environmental Science and Engineering Seminar Series (Fall 2003/Spring 2004)
- Initiation and Establishment of the Integrated Environmental Teaching Laboratory (IETL) – CSM/City of Golden Water Treatment Pilot Plant Laboratory.
- Initiator and Organizer. Initiated and led successful application to the American Academy of Environmental Engineers (AAEE), in collaboration with the University of Colorado and CH2M Hill, to host the 2002 Kappe Lecture at CSM in September of 2002. This guest lecture by Dr. James Crook was on the topic of indirect potable reuse and it was held in CSM's student center. An audience of over 150 persons joined this event.
- Served as faculty advisor and initiator of the first Rocky Mountain Student Research Conference on May 18, 2004, spearheaded and facilitated by CSM RM AWWA/WEF Chapter Students.

9/1999-7/2001: Associate Director

National Center for Sustainable Water Supply (NCSWS), Arizona State University, Tempe, AZ.

Funded Research:

- Comparison of Efficiencies of long-term Soil-Aquifer Treatment (SAT) and Best Available Technologies (reverse osmosis and nanofiltration membranes) for indirect potable reuse of domestic effluents. 2000-2001. PI. National Water Research Institute/U.S. Bureau of Reclamation.
- Investigation on soil-aquifer treatment for a sustainable water reuse. 1997-2003. Co-PI, PI P. Fox/M. Nellor. Awwa Research Foundation/U.S. Environmental Protection Agency.

Duties include:

- Coordination of multi-agency and multi-university research. Supervision of administrative staff and graduate students. Oversight of daily operation of Research Center.
- Research on character and fate of organics in natural and engineered systems leading to non-potable and potable reuse.

Courses taught:

- CEE 563 Water Chemistry

8/1997-8/1999: Visiting Professor

Department of Civil and Environmental Engineering, Arizona State University, Tempe, AZ.

Duties include:

- Research on advanced characterization techniques for organic carbon in groundwater recharge systems.

7/1992-7/1997: Research Associate

Department of Water Quality Control, Technical University of Berlin, Berlin, Germany

Funded Research:

- Life-cycle Assessment of Urban Water Supply and Disposal Systems. Co-PI. (Bundesstiftung Umwelt).

Duties include:

- Research on advanced wastewater treatment using powdered activated carbon and ozonation prior to groundwater recharge.
- Research on sustainable water supply systems in urban settings.
- Project management, budget oversight, reporting to sponsor for research project funded by BMBF/Berliner Wasser Betriebe.
- Design and construction of pilot-scale wastewater treatment plant for nitrification/bio-P removal (capacity 300 L/day).
- Supervision of graduate students and technical staff.
- Teaching graduate courses in environmental engineering.

Courses taught:

- Water Supply Engineering
- Water Chemistry
- Drinking Water Regulations
- Environmental Analytical Chemistry Laboratory

1/1990-3/1990: Volunteer

Department of Civil Engineering, University of Addis Ababa, Addis Ababa, Ethiopia

- Establishment of a Water Sanitation Laboratory.

10/1990-2/1992: Teaching Assistant

Department of Water Quality Control, Technical University of Berlin, Berlin, Germany

- Teaching assistant Water Treatment Processes Laboratory.

9/1988-10/1990: Research Assistant

Department of Chemical Engineering, Technical University of Berlin, Berlin, Germany

- Research on nitrification/ denitrification of industrial wastewater. Operation of pilot-scale bioreactors and chemical analysis.

2/1988-8/1988: Research Assistant

Department of Hygiene and Environmental Microbiology, Technical University of Berlin, Berlin, Germany

- Research on automation of identification of microorganisms in soil and water samples.

7/1982-6/1984: **Secondary Lieutenant**

German Armed Forces (Bundeswehr)

- Armored Infantry, Platoon Leader

HONORS AND ACHIEVEMENTS

- Dr. Nevis Cook Excellence in Teaching Award. Environmental Science & Engineering, Colorado School of Mines, 2003.
- Quentin Mees Research Award for outstanding water-related environmental research in the State of Arizona, 1999.
- Postdoctoral Research Scholarship administered by the German Science Foundation (DFG), 1997 – 1999.
- Willy-Hager Award for outstanding research in the field of water and wastewater treatment. Willy-Hager Foundation, Germany, 1997.

PROFESSIONAL REGISTRATION, AFFILIATIONS AND SERVICE

- Water Treatment Plant Operator, Level D, State of Colorado, since 2004.
- Member, American Water Works Association (AWWA); Water Environment Federation (WEF); International Water Association (IWA); American Chemical Society (ACS); Association of Environmental Engineering & Science Professors (AEESP); North American Membrane Society (NAMS); American Membrane Technology Association (AMTA).
- Member, Editorial Board *Journal of Environmental Science and Health*.
- Member, Joint Water Reuse Committee, Rocky Mountain AWWA/WEA.
- Vice-Chair, WEFTEC Water Reuse Program Committee.
- Member, Project Advisory Committee, Water Environment Research Foundation (WERF) Project 99-PUM-4.
- Member, Project Advisory Committee, American Water Works Association Research Foundation Project 2948.
- Member, Tailored Collaborative Review Committee, American Water Works Association Research Foundation. Project 3071.
- Member, Tailored Collaborative Review Committee, WaterReuse Foundation. Project WRF-04-004.
- Member, Stakeholder Group to revise Regulation 84, State of Colorado.
- Member, American Society of Civil Engineers (ASCE), Riverbank Filtration Task Committee.
- Member, Program Committee, ISMAR 2005, International Conference on Artificial Groundwater Recharge.
- Member, Technical Advisory Committee Arapahoe County/Cottonwood Water Purification Project, Colorado.
- Member, Blue Ribbon Panel. CH2MHill/City of Aurora. City of Aurora's Advanced Water Treatment Plant.
- Member, Organizing Committee. Rocky Mountain Water Reuse Workshop held at the Colorado School of Mines on August 14, 2003 at CSM's Student Center. Initiated and organized student poster presentations as part of the conference. An audience of over 120 water professionals and students joined this event.
- *Ad hoc* Peer review for scientific journals: *Chemosphere*, *Environmental Science & Technology*, *Ground Water Monitoring and Remediation*, *J. Environmental Quality*, *J. Environmental Science and Health*, *J. Environmental Engineering and Science*, *J. Membrane Science*, *Separation and Purification Technology*, *Water Research*, and *Water Science & Technology*.
- Proposal review: *American Water Works Association Research Foundation*, *WaterReuse Foundation*, *National Science Foundation*, *National Institutes for Water Resources/USGS National Competitive Grants*, *Minnesota Sea Grant*, *Wisconsin Groundwater Coordinating Council*, *U.S. Bureau of Reclamation Science & Technology Program*, *Israel National Science Foundation*.

PUBLICATIONS

Papers in peer-reviewed journals, published or in press

- Drewes, J. E., Kretschmer, J., Ohm, M., Suhr, M. & Jekel, M. (1991). Ursachen fixiert. Ein neues Instrumentarium analysiert Umweltbelastungen an einem Fallbeispiel aus der fotochemischen Industrie. *Müllmagazin* 2, 20-24.
- Drewes, J. E. & Jekel, M. (1996). Simulation of Groundwater Recharge With Advanced Treated Wastewater, *Water Science & Technology* 33, 10-11, 409-418.
- Drewes, J. E., Bornhardt, C. & Jekel, M. (1996), Adsorption characteristics of municipal wastewater during biological treatment and subsequent soil infiltration. *Vom Wasser* 86, 43-55 (in German).

- Bornhardt, C., Drewes, J. E. & Jekel, M. (1997). Removal of organic halogens (AOX) from municipal wastewater by powdered activated carbon (PAC)/activated sludge (AS) treatment. *Water Science & Technology* **35**, 10, 147-153.
- Drewes, J. E. & Jekel, M. (1997). Investigation of competing adsorption of organic solutes in domestic wastewater. *Vom Wasser* **89**, 97-114 (in German).
- Drewes, J. E. & Jekel, M. (1998). Behavior of DOC and AOX using advanced treated wastewater for groundwater recharge. *Water Research* **32**, 10, 3125-3133.
- Drewes, J. E. & Weigert, B. (1998). Sustainable Development – A new approach for public water supply! *gwf Wasser/Abwasser* **139**, 11, 699-705 (in German).
- Bouwer, H., Fox, P., Westerhoff, P. & Drewes, J.E. (1999). Integrating water management and re-use: causes for concern? *Water Quality International*, Jan/Feb, 19-22.
- Drewes, J.E., Sprinzl, M., Soellner, A., Williams, M, Fox, P. & Westerhoff, P. (1999). Tracking Residual Dissolved Organic Carbon using XAD-Fractionation and ¹³C-NMR Spectroscopy in Indirect Potable Reuse Systems. *Vom Wasser* **93**, 95-107.
- Drewes, J.E. & Fox, P. (1999). Fate of natural organic matter (NOM) during groundwater recharge using reclaimed water. *Water Science & Technology* **40**, 9, 241-248.
- Drewes, J.E. & Fox, P. (2000). Effect of drinking water sources on reclaimed water quality in water reuse systems. *Water Environment Research* **72**, 3, 353-362.
- Drewes, J.E., Fox, P. & Jekel, M. (2001). Occurrence of iodinated X-ray contrast media in domestic effluents and their fate during indirect potable reuse. *Journal of Environmental Science and Health, Part A* **36A**. 1633-1645.
- Fox, P., Narayanaswamy, K., Genz, A., and Drewes, J. E. (2000). Water quality transformations during soil-aquifer treatment at the Mesa Northwest Water Reclamation Plant, USA. *Water Science & Technology* **43** (10), 343-350.
- Drewes, J. E. & Fox, P. (2001). Source Water Impact Model (SWIM) – A new planning tool for indirect potable water reuse systems. *Water Science & Technology* **43** (10), 267-275.
- Fox, P. & Drewes, J. E. (2001). Monitoring Requirements for Groundwater Under the Influence of Reclaimed Water. *Journal of Environmental Assessment and Monitoring* **70**, 117-133.
- Drewes, J. E. & Croue, J.-P. (2002). New approaches for structural characterization of organic matter in drinking water and wastewater effluents. *Water Science & Technology – Water Supply* **2**, 2, 1-10.
- Drewes, J. E., Heberer, T. & Reddersen, K. (2002). Fate of pharmaceuticals during indirect potable reuse. *Water Science & Technology* **46**, 3, 73-80.
- Drewes, J. E., Heberer, T., Rauch, T. & Reddersen, K. (2003). Fate of pharmaceuticals during groundwater recharge. *J. Ground Water Monitoring and Remediation* **23**, 3, 64-72.
- Drewes, J. E., Reinhard, M., & Fox, P. (2003). Comparing microfiltration-reverse osmosis and soil-aquifer treatment for indirect potable reuse of water. *Water Research* **37**, 3612-3621.
- Montgomery-Brown, J., Reinhard, M., Drewes, J. E. & Fox, P. (2003). Behavior of alkylphenol polyethoxylate metabolites during soil aquifer treatment. *Water Research* **37**, 3672-3681.
- Kimura, K., Amy, G., Drewes, J. E., & Watanabe, Y. (2003). Adsorption of hydrophobic compounds onto NF/RO membranes – an artifact leading to overestimation of rejection. *J. Membrane Science* **221**, 89-101.
- Kimura, K., Amy, G., Drewes, J. E., Heberer, T. & Watanabe, Y. (2003). Rejection of organic micropollutants (disinfection by-products, endocrine disrupting compounds, and pharmaceutically active compounds) by NF/RO membranes. *J. Membrane Science* **227**, 113-121.
- Mansell, J. and Drewes, J. E. (2004). Fate of steroidal hormones during soil-aquifer treatment (SAT). *J. Ground Water Monitoring and Remediation*. **24**, 2, 94-101.
- Bellona, C., Drewes, J. E., Xu, P. & Amy, G. (2004). Factors affecting the rejection of organic solutes during NF/RO treatment – A literature review. *Water Research* **38**, 2795-2809.
- Mansell, J., Drewes, J. E., & Rauch, T., (2004). Removal mechanisms of endocrine disrupting compounds (steroids) during soil-aquifer treatment. *Water Science & Technology* **50**, 2, 229-237.
- Rauch, T. & Drewes, J.E. (2004). Assessing the removal potential of soil-aquifer treatment systems for bulk organic matter. *Water Science & Technology* **50**, 2, 245-253.
- Bellona, C. & Drewes, J. E. (2005). The role of physico-chemical properties of membranes and solutes for rejection of organic acids by nanofiltration membranes. *Journal of Membrane Science* **249**, 227-234.
- Xu, P., Drewes, J. E., Bellona, C., Amy, G., Kim, T., Adam, M. & Heberer, T. (2005). Rejection of emerging organic micropollutants in nanofiltration/reverse osmosis membrane applications. *Water Environment Research* **77**, 1, 40-48.
- Drewes, J. E., Hemming, J., Landenburger, S., Schauer, J. & Sonzogni, W. (2005). An assessment of endocrine disrupting activity changes in water reclamation systems through the use of bioassays and chemical measurements. *Water Environment Research* **77**, 1, 12-23.

- Rauch, T. & Drewes, J. E. (2005). Quantifying biological organic carbon removal in groundwater recharge systems.. *Journal of Environmental Engineering*, June, 909-923.
- Kim, T.-U., Amy, G. & Drewes, J. E. (2005). Rejection of trace organic compounds by high-pressure membranes. *Water Science & Technology* **51**, 6-7, 335-344.
- Drewes, J. E., Bellona, C., Oedekoven, M., Xu, P., Kim, T.-U., & Amy, G. (2005). Rejection of wastewater-derived micropollutants in high-pressure membrane applications leading to indirect potable reuse. *Environmental Progress* **24**, 4, 400-409.
- Amy, G., Kim, T. U., Yoon, J., Bellona, C. Drewes, J. E., Pellegrino, J. and Heberer, T. (2005), "Removal Of Micropollutants By NF/RO Membranes", *Water Science and Technology: Water Supply*, **5** (5), 25-33
- Rauch-Williams, T. & Drewes, J. E. (2006). Using soil biomass as an indicator for the biological removal of effluent-derived organic carbon during soil infiltration. *Water Research* **40**, 961-968.
- Drewes, J. E., Quanrud, D., Amy, G. & Westerhoff, P. (2006). Character of Organic Matter in Soil-Aquifer Treatment Systems. *J. Environmental Engineering* (in press).
- Xu, P., Drewes, J. E., Kim, T. Bellona, C. & Amy, G. (2006). Effect of membrane fouling on transport of emerging organic contaminants in NF/RO membrane applications. *J. Membrane Science* **279**, 165-175.
- Amy, G. & Drewes, J. E. (2006). Soil-aquifer treatment (SAT) as a natural and sustainable wastewater reclamation/reuse technology: Fate of wastewater effluent organic matter (EfOM) and trace organic compounds. *Environmental Monitoring and Assessment* (in press).
- Xu, P. & Drewes, J. E. (2006). Viability of nanofiltration and ultra low pressure reverse osmosis membranes for multi-beneficial use of methane produced water. *Separation and Purification Technology*.
- Drewes, J. E., Hoppe, C., & Jennings, T. (2006). Fate and transport of N-nitrosamines under conditions simulating full-scale groundwater recharge operations. *Water Environment Research*.

Peer-Reviewed Books and Book Contributions

- Drewes, J. E. & Jekel, M. (1996). Reuse of Advanced Treated Sewage Effluent for Groundwater Recharge. Nordic Hydrological Programme. Report No. 38. 161-167.
- Drewes, J. E., Bornhardt, C. & Jekel, M. (1996). Untersuchungen zur Nutzung von Klarwaessern fuer eine Versickerung auf Rieselfeldboeden. Schriftenreihe im Fachbereich Umwelt und Gesellschaft. Landschaftsentwicklung und Umweltforschung, Technische Universitaet Berlin, Berlin. Nr. 101. 93-100.
- Drewes, J. E. (1996). Wende zu einer nachhaltigen Wassernutzung. K.H. Hübler, U. Weiland (Eds.). Nachhaltige Entwicklung. Eine Herausforderung fuer die Forschung? Verlag fuer Wissenschaft und Forschung. Berlin. 153-166.
- Drewes, J. E. (1997). Behavior of organic compounds in domestic effluents used for groundwater recharge. Fortschritt-Berichte VDI-Verlag No 174, Umwelttechnik, Düsseldorf (in German).
- Drewes, J. E., Fox, P. & Ziegler, D. (1998). Impact of drinking water sources on refractory DOC in water reuse systems. Peters et al. (eds.), Artificial Recharge of Groundwater. Balkema, Rotterdam, 461-463.
- Drewes, J. E. (1998). Anforderungen an eine nachhaltige Wassernutzung in Berlin-Brandenburg. Forschungs- und Sitzungsberichte. Nachhaltige Raumentwicklung. Szenarien und Perspektiven für Berlin-Brandenburg. Band 205. Akademie fuer Raumforschung und Landesplanung. Hannover. 199-217.
- Drewes, J. E., Fox, P. & Nellor, M. (2000), Efficiency and Sustainability of Soil-Aquifer Treatment for Indirect Potable Reuse of Reclaimed Water. I. Chorus et al. (eds.), Water, Sanitation & Health. IWA Publishing, London, 227-232.
- Drewes, J. E. & Shore, L. S. (2001). Concerns about pharmaceuticals in water reuse, groundwater recharge, and animal waste. In: Ch. Daughton and T. L. Jones-Lepp (Eds.) American Chemical Society Symposium Series 791 "Pharmaceuticals and personal care products in the environment" No. 791, Washington, D.C., 206-228.
- Drewes, J. E. & Summers, R. S. (2002). Removal of NOM during bank filtration: Current knowledge and research needs. In: C. Ray, Melin, G. and Linsky, R. (eds.), Riverbank filtration: Improving source water quality. Kluwer Academic Publishers, Dordrecht, The Netherlands. 303-310.
- Drewes, J. E., Barrett, M., Appleyard, S., Chilton, J. & Fastner, J. (in press). Chemicals: Health Relevance, Transport and Attenuation. In: WHO Ground Water Monograph. World Health Organization (WHO), Geneva.
- Drewes, J. E. (2004). Fate and transport of organic constituents during ground water recharge using water of impaired quality. Risk Assessment of Waste Water Re-use on Groundwater Quality. J. Steenvoorden and T. Endreny (eds.). Wastewater Re-use and Groundwater Quality. International Association of Hydrological Sciences (IAHS) Publ. 285. 85-91. Oxfordshire, UK.
- Drewes, J. E. (in press). Wastewater Reclamation and Reuse Research. The Encyclopedia of Water. Wiley Water.

- Drewes, J. E., Gower, A., Mitchell, R. & Zabel, T. (in review). Chemicals: Health Relevance, Transport and Attenuation. In: WHO Surface Water Monograph. World Health Organization (WHO), Geneva.
- DREWES, J. E. (in review). Removal of Pharmaceutical Residues during Wastewater Treatment. Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle. Eds. M. Petrovic and D. Barcelo. Elsevier.

Conference proceedings

- Drewes, J. E. & Jekel, M. (1995). Simulation of Groundwater Recharge with Advanced Treated Wastewater. Proceedings 2nd International Symposium on Wastewater Reclamation and Reuse. International Association on Water Quality. October 17-20, 1995. 901-910.
- Drewes, J.E. & Fox, P. (1998). Impact of drinking water sources and industrial dischargers on refractory DOC in water reuse systems. Proceedings WEFTEC '98, Vol. 7, 71st Annual Conference Water Environment Federation, Orlando, FL, 169-181.
- Drewes, J.E. & Fox, P. (1998). Behavior of persistent organic compounds during soil-aquifer treatment. Proceedings International Conference on Advanced Wastewater Treatment and Reuse. Volume 1, Milan, Italy, 583-590.
- Drewes, J.E. (1998). Survey of indirect potable reuse of municipal wastewater in the Southwestern United States. Proceedings Sino-Germany Workshop on Wastewater Treatment and Reuse. Beijing, China.
- Drewes, J.E., Amy, G., Fox, P. & Westerhoff, P. (1999). Drinking water TOC impacts on reclaimed water and consequences for regulations of water reuse systems. Proceedings Annual Conference American Water Works Association, Chicago, IL.
- Drewes, J.E., Rauch, T., Rincon, M., Nellor, M. & Fox, P. (1999). A watershed guided approach for water quality assurance in indirect potable reuse systems: Experiences from field studies in Arizona and California. Proceedings Annual Research Conference Water Reuse Association, Monterey, California.
- Drewes, J. E. & Fox, P. (1999). Fate of natural organic matter (NOM) during groundwater recharge using reclaimed water. Proceedings International IAWQ-IWSA Joint Specialist Conference on Removal of Humic Substances from Water. Trondheim, Norway. June 24-26, 1999. 255-262.
- Drewes, J.E. & Fox, P. (2000). Augmentation of local drinking water sources through indirect reuse of reclaimed water. Small Drinking Water and Wastewater Systems Conference, January 12-15, 2000, Phoenix, Arizona, 259-263.
- Fox, P., Drewes, J.E. & Nellor, M. (2000). Watershed Analysis of Water Reuse Systems. Proceedings AWWA/WEF Water Reuse 2000 Conference, San Antonio, Texas.
- Drewes, J. E., Arnold, R. G. & Fox, P. (2000). Fate of pharmaceutical chemicals during groundwater recharge using reclaimed water. Proceedings Emerging Issues Conference. National Ground Water Association. June 7-8, 2000, Minneapolis, Minnesota.
- Fox, P., Narayanaswamy, K. & Drewes, J. E. (2000). Water quality transformations during soil-aquifer treatment at the Mesa Northwest Water Reclamation Plant, USA. Proceedings 3rd International Symposium on Waste Water Reclamation, Recycling and Reuse. July 3-6, 2000, Paris, France.
- Drewes, J. E. & Fox, P. (2000). Source Water Impact Model (SWIM) - A watershed guided approach as a new planning tool for indirect potable water reuse. Proceedings 3rd International Symposium on Waste Water Reclamation, Recycling and Reuse. July 3-6, 2000, Paris, France.
- Drewes, J. E. & Fox, P. (2000). Character and Fate of Organic Matter in Domestic Effluents used for Indirect Potable Reuse using LC-OCD Analysis. Proceedings WEFTEC 2000, Anaheim, California.
- Drewes, J. E. (2000). Water Reuse in the New Century - How to meet Sustainability? WaterReuse Association Annual Symposium 2000, Napa, California.
- Schoenheinz, D., Drewes, J. E., Grischek, T. & Fox, P. (2000). Organics of concern in reclaimed water and their fate during soil-aquifer treatment. WaterReuse Association Annual Symposium 2000, Napa, California.
- Drewes, J. E. (2000). Occurrence and Fate of PPCPs in Domestic Effluents used for Indirect Potable Reuse. Proceedings 21st Meeting of the American College of Toxicology, November 12-15, 2000, San Diego, California.
- Drewes, J.E., Soellner, A., Sarikaya, A., Reinhard, M., Fox, P. & Montgomery-Brown, W. J. (2001). Membrane Treatment versus Soil-Aquifer Treatment for Indirect Potable Reuse - Performance, Limitations, and Concerns. Proceedings AWWA Membrane Technology Conference and Exhibition 2001, San Antonio, Texas.
- Drewes, J. E., Heberer, T. & Reddersen, K. (2001). Fate of pharmaceuticals during groundwater recharge. Proceedings 10th Biannual Symposium on Artificial Recharge of groundwater. June 7-9, 2001, Tucson, Arizona.
- Drewes, J. E., Heberer, T. & Reddersen, K. (2001). Removal of pharmaceuticals during conventional wastewater treatment, advanced membrane treatment and soil-aquifer treatment. Proceedings 2nd International Conference on Pharmaceuticals and Endocrine Disrupting Chemicals in Water. October 9-11, 2001, Minneapolis, Minnesota.

- Drewes, J. E., Meyer, T., Reissmann, F., Repp, S. & Fox, P. (2001). Drinking water hardness and DOC - Major factors driving reclaimed water quality. Proceedings WEFTEC 2001, October 13-17, Atlanta, Georgia.
- Drewes, J. E. & Croue, J.-P. (2001). New approaches for structural characterization of organic matter in drinking water and wastewater effluents. Proceedings International Water Association (IWA) Conference, October 14-19, Berlin, Germany.
- Drewes, J. E., Amy, G. & Reinhard, M. (2002). Targeting bulk and trace organics during advanced membrane treatment leading to indirect potable reuse. Proceedings AWWA Water Sources Conference and Exhibition, January 27-31, Las Vegas, Nevada.
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