

Dr. rer. nat. Dipl.-Ing. Jörg Lewandowski

Leibniz-Institute of Freshwater Ecology and Inland Fisheries

Department 1: Ecohydrology

Cross-cutting Research Domain II: Aquatic Boundaries and Linkages

Research Group: Groundwater-surface water interfaces

Researcher ID: E-9028-2012

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### **Brief Curriculum Vitae**

2015	Habilitation HU Berlin
Since 2006	Senior scientist, IGB, Department 1
2005	Senior scientist, University of Hohenheim
2002-2005	PostDoc, IGB, Biogeochemistry group Chemical Lab
1998-2002	PhD, IGB, Biogeochemistry group Chemical Lab
1997-1998	Junior scientist, TU Dresden
1996-1997	Internship, U. S. Geological Survey
1996-1997	Author text book soil chemistry, Springer press
1994-1995	Diploma thesis on contaminants in soil, TU Berlin
1993-1994	Studies in Environmental Sciences, ETH Zürich
1992-1995	Teaching assistant, TU Berlin
1988-1997	Studies in Environmental Engineering, TU Berlin

### **Research Topics**

- Hydrodynamic transport and biogeochemical turnover processes in floodplain aquifers and hyporheic zones (groundwater-stream interface)
- Hydrodynamic transport and biogeochemical turnover processes at aquifer-lake interfaces (groundwater discharge to lakes)
- Impacts of macrozoobenthos activities on hydrodynamic transport and biogeochemical turnover processes in lake sediments and on adjacent compartments
- Phosphorus retention in limnetic sediments, early diagenetic processes and phosphorus turnover in lake ecosystems
- Lake restoration

# Curriculum vitae

Name Jörg Lewandowski  
Birth date 11 May 1967  
Nationality German  
Marital status Married, two children (2008, 2010)  
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## 1. Professional experience

01/2006-today Senior scientist IGB, Department Ecohydrology & Cross-cutting research domain Aquatic Boundaries and Linkages: Research group Groundwater-Surface Water Interfaces: Coupling of Hydrodynamic and Biogeochemical Processes

04/2005-12/2005 Senior scientist University of Hohenheim, Institute of Plant Nutrition: Research and teaching in soil chemistry

04/2002-03/2005 PostDoc IGB, Research group Biogeochemistry: Development of a novel sampling device for pore water sampling with high spatial and temporal resolution (DBU project 17225)

10/1998-03/2002 PhD IGB, Research group Biogeochemistry: Phosphorus-retention and early diagenetic processes in limnetic sediments; development of a scientific concept for the selection of appropriate in-lake measures (BMBF project 02WT9822/4)

09/1997-09/1998 Junior scientist Technical University Dresden, Institute of Groundwater Management: Mobilization of contaminants from abandoned waste disposal sites located in brown-coal open-cast mines due to flooding

05/1996-04/1997 Internship U. S. Geological Survey, Water Resources Division: Mobility and transport of metals in a sand and gravel aquifer

01/1996-01/1997 Authoring a book about contaminants in soil, analysis and evaluation: Lewandowski, J., Leitschuh, S., Koss, V. (1997): Schadstoffe im Boden: Eine Einführung in Analytik und Bewertung. Berlin: Springer

04/1994-03/1995 Student lecturer at the Technical University Berlin: Seminar for socially and environmentally responsible behaviour: Ecological crisis and future studies workshop

## 2. Education

1/2015 Habilitation "Coupling of hydrodynamic and biogeochemical processes at aquatic interfaces", Humboldt University Berlin, Geographical Institute

12/2002 PhD, Humboldt University Berlin, Institute of Biology (magna cum laude)

05/1996-04/1997 Project thesis, U. S. Geological survey (mark: 1,0)

04/1994-06/1995 Diploma thesis „A new practical course on analysis of contaminants in soil", Technical University Berlin (awarded with the Engineering Education Price 1997, mark: 1,0)

10/1993-03/1994 Studies in Environmental Sciences at the Swiss Federal University of Technology Zurich: Environmental Sciences

09/1988-04/1997 Studies in Environmental Technologies at the Technical University of Berlin: Focus on water and wastewater management, soil and groundwater protection, environmental chemistry, solid and hazardous

06/1986 waste management, environmental policy, environmental education,  
and environmental psychology (Dipl.-Ing., mark: excellent)  
Abitur, Pelizaeus-Gymnasium Paderborn (mark: 1,7)

### **3. Voluntary engagement and social competence**

Since 11/2012 Member in the working group Ecohydrology of the German Hydrological Society

Since 10/2008 Head investment committee, IGB

Since 03/2008 Member investment committee, IGB

05/2000 – 09/2002 PhD member ILA, IGB

10/1994 – 03/1996 Student member in review board for professorship Environmental chemistry, Technical University Berlin

10/1991 – 09/1993 Student member in a committee to develop the new study subject Soil protection and rehabilitation, Technical University Berlin

01/1991 – 05/1996 Student member education committee Environmental Engineering, Technical University Berlin

### **4. Member of scientific societies**

American Society of Limnology and Oceanography (ASLO)

European Geosciences Union (EGU), Subdivision on Ecohydrology, Wetlands and Estuaries

American Geophysical Union (AGU)

German Limnological Society (DGL)

Nereis Park

## Peer-reviewed publications

53. Baranov, Viktor A.; Lewandowski, Jörg & Krause, Stefan (2016): Bioturbation enhances the aerobic respiration of lake sediments in warming lakes. *Biology Letters* **12**, 20160448, 1–4.
52. Zaramella, Mattia; Marion, Andrea; Lewandowski, Jörg & Nützmann, Gunnar (2016): Assessment of transient storage exchange and advection–dispersion mechanisms from concentration signatures along breakthrough curves. *Journal of Hydrology* **538**, 794–801.
51. Baranov, Viktor A.; Lewandowski, Jörg; Romeijn, Paul; Singer, Gabriel & Krause, Stefan (2016): Effects of bioirrigation of non-biting midges (Diptera: Chironomidae) on lake sediment respiration. *Scientific Reports* **6**, 27329, 1–10.
50. Hupfer, Michael; Reitzel, Kasper; Kleeberg, Andreas; Lewandowski, Jörg (2016): Long-term efficiency of lake restoration by chemical phosphorus precipitation: Scenario analysis with a phosphorus balance model. *Water Research* **97**, 153–161.
49. Pöschke, Franziska; Lewandowski, Jörg; Engelhardt, Christof; Preuss, Konrad; Oczipka, Martin; Ruhtz, Thomas & Kirillin, Georgiy (2015): Upwelling of deep water during thermal stratification onset. A major mechanism of vertical transport in small temperate lakes in spring? *Water Resources Research* **51**, 9612–9627.
48. Hölker, Franz; Vanni, Michael J.; Kuiper Jan J.; Meile, Christof; Grossart, Hans-Peter; Stief, Peter; Adrian, Rita; Lorke, Andreas; Dellwig, Olaf; Brand, Andreas; Hupfer, Michael; Mooij, Wolf M.; Nützmann, Gunnar; & Lewandowski, Jörg (2015): Tube-dwelling invertebrates: tiny ecosystem engineers have large effects in lake ecosystems. *Ecological Monographs* **85**, 333–351.
47. Krause, Stefan; Lewandowski, Jörg; Dahm, Clifford N. & Tockner, Klement (2015): Frontiers in real-time ecohydrology – a paradigm shift in understanding complex environmental systems. *Ecohydrology* **8**, 529–537.
46. Lehr, Christian; Pöschke, Franziska; Lewandowski, Jörg & Lischeid, Gunnar (2015): A novel method to evaluate the effect of a stream restoration on the spatial pattern of hydraulic connection of stream and groundwater. *Journal of Hydrology* **527**, 394–401.
45. Meinikmann, Karin; Hupfer, Michael & Lewandowski, Jörg (2015): Phosphorus in groundwater discharge – a potential source for lake eutrophication. *Journal of Hydrology* **524**, 214–226.
44. Rudnick, Sebastian; Lewandowski, Jörg & Nützmann, Gunnar (2015): Investigating groundwater-lake interaction by hydraulic heads and a water balance. *Groundwater* **53**, 227–237.
43. Pöschke, Franziska; Lewandowski, Jörg & Nützmann, Gunnar (2015): Impacts of alluvial structures on small-scale nutrient heterogeneities in groundwater. *Ecohydrology* **8**, 682–694.
42. Lewandowski, Jörg; Meinikmann, Karin; Nützmann, Gunnar & Rosenberry, Donald O. (2015): Groundwater – the disregarded component in lake water and nutrient budgets. Part 2: effects of groundwater on nutrients. *Hydrological Processes* **29**, 2922–2955.
41. Rosenberry, Donald O.; Lewandowski, Jörg; Meinikmann, Karin & Nützmann, Gunnar (2015): Groundwater – the disregarded component in lake water and nutrient budgets. Part 1: effects of groundwater on hydrology. *Hydrological Processes* **29**, 2895–2921.
40. Müller, Eva Nora; van Schaik, Loes; Blume, Theresa; Bronstert, Axel; Carus, Jana; Fleckenstein, Jan H.; Fohrer, Nicola; Geißler, Katja; Gerke, Horst H.; Gräff, Thomas; Hesse, Cornelia; Hildebrandt, Anke; Hölker, Franz; Hunke, Philip; Körner, Katrin; Lewandowski, Jörg; Lohmann, Dirk; Meinikmann, Karin; Schibalski, Anett; Schmalz, Britta; Schröder, Boris & Tietjen, Britta (2014): Skalen, Schwerpunkte, Rückkopplungen und Herausforderungen der ökohydrologischen Forschung in Deutschland (Scales, key aspects, feedbacks and challenges of ecohydrological research in Germany, in German). *Hydrologie & Wasserbewirtschaftung*, **58**(4), 221–240.

39. Lewandowski, Jörg; Nützmann, Gunnar & Tockner, Klement (2014): Frontiers in real-time ecohydrology. *Fundamental and Applied Limnology* **184**(3), 169-171.
38. Nützmann, Gunnar; Levers, Christian & Lewandowski, Jörg (2014): Coupled groundwater flow and heat transport simulation for estimating transient aquifer-stream exchange at the lowland River Spree (Germany). *Hydrological Processes* **28**, 4078-4090.
37. Gessner, Mark O., Hinkelmann, Reinhard; Nützmann, Gunnar; Jekel, Martin; Singer, Gabriel; Lewandowski, Jörg; Nehls, Thomas; Barjenbruch, Matthias (2014): Urban water interfaces. *Journal of Hydrology* **514**, 226-232.
36. Krause, Stefan; Boano, Fulvio; Cuthbert, Mark O.; Fleckenstein, Jan H. & Lewandowski, Jörg (2014): Understanding process dynamics at aquifer-surface water interfaces: An Introduction to the special section on new modeling approaches and novel experimental technologies. *Water Resources Research* **50**, 1847-1855.
35. Blume, Theresa; Krause, Stefan; Meinikmann, Karin & Lewandowski, Jörg (2013): Upscaling lacustrine groundwater discharge rates 1 by fiber-optic distributed temperature sensing. *Water Resources Research* **49**, 1-16.
34. Lewandowski, Jörg & Hupfer, Michael (2013): Seentherapie – Erfahrungen und neue Herausforderungen (Lake therapy – Experiences and new challenges, in German). *Korrespondenz Wasserwirtschaft* **6**(12): 671.
33. Hupfer, Michael; Gohr, Friedemann; Krause, Dieter; Mathes, Jürgen; Spieker, Jürgen; Wanner, Susanne & Lewandowski, Jörg (2013): Vorbereitung und Auswahl von Maßnahmen zur Seentherapie (Preparation and selection of measures for lake therapy, in German). *Korrespondenz Wasserwirtschaft* **6**(12): 710-717.
32. Lewandowski, Jörg; Hoehn, Eberhard; Kasprzak, Peter; Kleeberg, Andreas; Kurzreuther, Hannes; Lücke, Niklas; Mathes, Jürgen; Meis, Sebastian; Rönicke, Helmut; Rothe, Matthias; Sandrock, Stefan; Wauer, Gerlinde & Hupfer, Michael (2013): Gewässerinterne Ökotechnologien zur Verminderung der Trophie von Seen und Talsperren (Lake-internal ecotechnologies to reduce the trophy of lakes and reservoirs, in German). *Korrespondenz Wasserwirtschaft* **6**(12): 718-728.
31. Meinikmann, Karin; Barsch, Antje; Gelbrecht, Jörg; Grüneberg, Björn; Wanner, Susanne; Wolf, Leif; Zak, Dominik & Lewandowski, Jörg (2013): Diffuse Belastung von Seen aus dem Einzugsgebiet (Diffuse Lake Pollution from the Catchment, in German). *Korrespondenz Wasserwirtschaft* **6**(12): 702-709.
30. Meinikmann, Karin; Nützmann, Gunnar & Lewandowski, Jörg (2013): Lacustrine groundwater discharge: Combined determination of volumes and spatial patterns. *Journal of Hydrology* **502**, 202–211.
29. Lewandowski, Jörg; Meinikmann, Karin; Ruhtz, Thomas; Pöschke, Franziska & Kirillin, Georgiy (2013): Localization of lacustrine groundwater discharge (LGD) by airborne measurement of thermal infrared radiation. *Remote Sensing of Environment* **138**, 119–125.
28. Brand, Andreas; Lewandowski Joerg; Hamann, Enrico & Nützmann, Gunnar (2013): Advection around ventilated U-shaped burrows: A model study. *Water Resources Research* **49**, 2907–2917.
27. Angermann, Lisa; Krause, Stefan & Lewandowski Jörg (2012). Application of heat pulse injections for investigating shallow hyporheic flow in a lowland river. *Water Resources Research* **48**, W00P02.
26. Angermann, Lisa; Lewandowski, Jörg; Fleckenstein, Jan H. & Nützmann, Gunnar (2012): A 3D analysis algorithm to improve interpretation of heat pulse sensor results for the determination of small-scale flow directions and velocities in the hyporheic zone. *Journal of Hydrology* **475**, 1–11.
25. Roskosch, Andrea; Hette, Nicolas; Hupfer, Michael & Lewandowski, Jörg (2012): Alteration of *Chironomus plumosus* ventilation activity and bioirrigation-mediated benthic fluxes by changes in temperature, oxygen concentration, and seasonal variations. *Freshwater Science* **31**, 269-281.

24. Lewandowski, Jörg; Angermann, Lisa; Nützmann, Gunnar & Fleckenstein, Jan H. (2011): A heat pulse technique for the determination of small-scale flow directions and flow velocities in the streambed of sand-bed streams. *Hydrological Processes* **25**, 3244-3255.
23. Lewandowski, Jörg; Putschew, Anke; Schwesig, David; Neumann, Christiane & Radke, Michael (2011): Fate of organic micropollutants in the hyporheic zone of a eutrophic lowland stream: Results of a preliminary field study. *Science of the Total Environment* **409**, 1824-1835.
22. Roskosch, Andrea; Hupfer, Michael; Nützmann, Gunnar & Lewandowski, Jörg (2011): Measurement techniques for quantification of pumping activity of invertebrates in small burrows. *Fundamental and Applied Limnology* **178**, 89-110.
21. Roskosch, Andrea; Morad, Mohammad Reza; Khalili, Arzhang; Lewandowski, Jörg (2010): Bioirrigation by *Chironomus plumosus*: advective flow investigated by particle image velocimetry. *Journal of the North American Benthological Society* **29**, 789-802.
20. Roskosch, Andrea; Lewandowski, Jörg; Bergmann, Ralf; Wilke, Florian; Brenner, Winfried & Buchert, Ralph (2010): Identification of transport processes in bioirrigated muddy sediments by [18F]fluoride PET (Positron Emission Tomography). *Applied Radiation and Isotopes* **68**, 1094-1097.
19. Lewandowski, Jörg & Nützmann, Gunnar (2010): Nutrient retention and release in a floodplain's aquifer and in the hyporheic zone of a lowland river. *Ecological Engineering* **36**, 1156-1166.
18. Morad, Mohammad Reza; Khalili, Arzhang; Roskosch, Andrea; Lewandowski, Jörg (2010): Quantification of pumping rate of *Chironomus plumosus* larvae in natural burrows. *Aquatic Ecology* **44**, 143-153.
17. Nützmann, Gunnar & Lewandowski, Jörg (2009): Wechselwirkungen zwischen Grundwasser und Oberflächenwasser an einem Tieflandfluss (Spree) (Exchange between groundwater and surface water at the lowland River Spree). *Grundwasser* **14**, 195-205.
16. Lewandowski, Jörg; Lischeid, Gunnar & Nützmann, Gunnar (2009): Drivers of water level fluctuations and hydrological exchange between groundwater and surface water at the lowland River Spree (Germany): Field study and statistical analyses. *Hydrological Processes* **23**, 2117-2128.
15. Hupfer, Michael & Lewandowski, Jörg (2008): Oxygen controls the phosphorus release from lake sediments – a long-lasting paradigm in limnology. *International Review of Hydrobiology* **93**, 415-432.
14. Laskov, Christine; Herzog, Christiane; Lewandowski, Jörg & Hupfer, Michael (2007): Miniaturized photometrical methods for the rapid analysis of phosphate, ammonium, ferrous iron, and sulfate in pore water of freshwater sediments. *Limnology and Oceanography Methods* **4**, 63-71.
13. Lewandowski, Jörg; Laskov, Christine & Hupfer, Michael (2007): The relationship between *Chironomus plumosus* burrows and the spatial distribution of pore-water phosphate, iron and ammonium in lake sediments. *Freshwater Biology* **52**, 331-343.
12. Schauser, Inke; Chorus, Ingrid & Lewandowski, Jörg (2006): Effects of nitrate on phosphorus release: comparison of two Berlin lakes. *Acta Hydrochimica et Hydrobiologica* **34**, 325-332.
11. Lewandowski, Jörg & Hupfer, Michael (2005): Effect of *Chironomus plumosus* on spatial distribution of pore-water phosphate concentration in lake sediments: a laboratory experiment. *Verhandlungen der Internationalen Vereinigung für theoretische und angewandte Limnologie* **29**, 937-940.
10. Hupfer, Michael & Lewandowski, Jörg (2005): Retention and early diagenetic transformation of phosphorus in Lake Arendsee (Germany) – consequences for management strategies. *Archiv für Hydrobiologie*, **164**, 143-167.

9. Lewandowski, Jörg; Schadach, Mareike & Hupfer, Michael (2005): Impact of macrozoobenthos on two-dimensional small-scale heterogeneity of pore water phosphorus concentrations: *in situ* study in Lake Arendsee (Germany). *Hydrobiologia* **549**, 43-55.
8. Lewandowski, Jörg & Hupfer, Michael (2005): Effect of macrozoobenthos on two-dimensional small-scale heterogeneity of pore water phosphorus concentrations in lake sediments: A laboratory study. *Limnology and Oceanography* **50**, 1106-1118.
7. Schrenk-Bergt, Christiane; Krause, Dieter; Prawitt, Olaf; Lewandowski, Jörg & Steinberg, Christian E. W. (2004): Eutrophication problems and their potential solution in the artificial shallow Lake Altmühlsee (Germany). *Studia Quaternaria* **21**, 73-86.
6. Schauser, Inke; Lewandowski, Jörg & Hupfer, Michael (2003): Decision support for the selection of an appropriate in-lake measure to influence the phosphorus retention in sediments. *Water Research* **37**, 801-812.
5. Lewandowski, Jörg; Schauser, Inke & Hupfer, Michael (2003): Long-term effects of phosphorus precipitations with alum in hypereutrophic Lake Süßer See (Germany). *Water Research* **37**, 3194-3204.
4. Lewandowski, Jörg; Rüter, Kristina & Hupfer, Michael (2002): Two-dimensional small-scale variability of pore water phosphate in freshwater lakes: results from a novel dialysis sampler. *Environmental Science & Technology* **36**, 2039-2047.
3. Lewandowski, Jörg; Schauser, Inke & Hupfer, Michael (2002): Die Bedeutung von Sedimentuntersuchungen bei der Auswahl geeigneter Sanierungs- und Restaurierungsmaßnahmen (The importance of sediment studies in the selection of restoration measures). *Hydrologie und Wasserbewirtschaftung* **46**, 2-13.
2. Lewandowski, Jörg; Schauser, Inke & Hupfer, Michael (2002): Bedeutung von Vor- und Nachuntersuchungen in der Seentherapie (The significance of pre- and post-restoration studies in lake therapy). *Wasser & Boden* **9**, 21- 25.
1. Hupfer, Michael & Lewandowski, Jörg (2002): Steuerung der Wasserqualität eutrophierter Seen - Herausforderung für Wissenschaft und Praxis (Editorial) (Controlling the water quality of eutrophic lakes – Challenges for science and application (Editorial), in German). *Wasser & Boden* **9**, 1-2.

## Books and monographs

6. Lewandowski, Jörg (2014): Coupling of hydrodynamic and biogeochemical processes at aquatic interfaces. *Habilitation*, Humboldt University Berlin, 433 pp.
5. Schauser, Inke; Lewandowski, Jörg & Hupfer, Michael (2003): *Seeinterne Maßnahmen zur Beeinflussung des Phosphor-Haushaltes eutrophierter Seen - Leitfaden zur Auswahl eines geeigneten Verfahrens* (Lake-internal measures to influence the phosphorus balance of eutrophic lakes – guidelines for the selection of an appropriate technique, in German). Berichte des IGB 16, 114 pp.
4. Lewandowski, Jörg (2002): Untersuchungen zum Einfluss seeinterner Verfahren auf die Phosphor-Diagenese in Sedimenten (Investigations of the influence of in-lake measures on the phosphorus diagenesis in sediments, in German with abstract and supporting information in English). *Dissertation*, Humboldt University Berlin, 144 pp.
3. Lewandowski, Jörg; Leitschuh, Stephan & Koß, Volker (1997): *Schadstoffe im Boden. Eine Einführung in Analytik und Bewertung* (Contaminants in soil : Introduction to analysis and evaluation, in German). Berlin: Springer, 356 pp.
2. Lewandowski, Jörg & Pody, Heike (1997): Natural gradient tracer test in a sand and gravel aquifer, Cape Cod, Massachusetts. *Project thesis*, Technical University Berlin, Department of Environmental Technology, Section Environmental Chemistry, 122 pp.
1. Leitschuh, Stephan & Lewandowski, Jörg (1995): Ein neues Praktikum zur Analytik von Schadstoffen im Boden. Konzept, Organisation, Versuche, Lehrmaterial (A new practical course on analysis of contaminants in soil : Concept, organisation, experiments, teaching

equipment, in German). *Diploma thesis*, Technical University Berlin, Department of Environmental Technology, Section Environmental Chemistry, 254 pp.

## Extended proceedings of international conferences

15. Rudnick, Sebastian; Lewandowski, Jörg & Nützmänn, Gunnar (2014): Estimation of lacustrine groundwater discharge using heat as a tracer and vertical hydraulic gradients – a comparison. In: *Complex interfaces under change: Sea – river – groundwater – lake: Proceedings of symposia HP2 and HP3 held during the IAHS-IAPSO-IASPEI Assembly, Gothenburg, Sweden*. Christophe Cudennec; Marina Kravchishina; Jörg Lewandowski; Dan Rosbjerg & Philip L. Woodworth (Eds.). Oxfordshire, IAHS Publ. 365, 79-84.
14. Meinikmann, Karin; Nützmänn, Gunnar & Lewandowski, Jörg (2014): Empirical quantification of lacustrine groundwater discharge – different methods and their limitations. In: *Complex interfaces under change: Sea – river – groundwater – lake: Proceedings of symposia HP2 and HP3 held during the IAHS-IAPSO-IASPEI Assembly, Gothenburg, Sweden*. Christophe Cudennec; Marina Kravchishina; Jörg Lewandowski; Dan Rosbjerg & Philip L. Woodworth (Eds.). Oxfordshire, IAHS Publ. 365, 85-90.
13. Lewandowski, Jörg; Meinikmann, Karin; Pöschke, Franziska; Nützmänn, Gunnar & Rosenberry, Donald O. (2014): From submarine to lacustrine groundwater discharge. In: *Complex interfaces under change: Sea – river – groundwater – lake: Proceedings of symposia HP2 and HP3 held during the IAHS-IAPSO-IASPEI Assembly, Gothenburg, Sweden*. Christophe Cudennec; Marina Kravchishina; Jörg Lewandowski; Dan Rosbjerg & Philip L. Woodworth (Eds.). Oxfordshire, IAHS Publ. 365, 72-78.
12. Lewandowski, Jörg & Nützmänn, Gunnar (2013): Small-scale water- and nutrient-exchange between lowland River Spree (Germany) and adjacent groundwater (Chapter 3). In: *Groundwater and Ecosystems. IAH - Selected Papers on Hydrogeology Series*. Luis Ribeiro, Tibor Y. Stigter, Antonio Chambel, M. Teresa Condesso de Melo, Jose Paulo Monteiro, Albino Medeiros (Eds.). CRC Press, 23-32.
11. Lewandowski, Jörg & Nützmänn, Gunnar (2011): Geochemical processes in the aquifer of a flood plain before and after re-opening of a meander. In: *Surface Water-Groundwater Interactions: Conceptual and Modelling Studies of Integrated Groundwater, Surface Water, and Ecological Systems: Proceedings of Symposium H01 held during IUGG 2011*. Abesser, Corinna; Nützmänn, Gunnar; Hill, Mary C.; Blöschl, Günter & Lakshmanan, Elango (Eds.). Oxfordshire, IAHS Publ. 345, 183-189.
10. Nützmänn, Gunnar; Levers, Christian; Lewandowski, Jörg & Nützmänn, Gunnar (2010): Modelling of transient river-aquifer exchange using pressure head and heat measurements: the hyporheic zone's dimension. In: *Proceedings of the 18th International Conference on Computational Methods in Water Resources*. Carrera, Jesus (Ed.), Barcelona, 765-772.
9. Hamann, Enrico; Roskosch, Andrea; Jordan, Sylvia; Hupfer, Michael; Lewandowski, Jörg & Nützmänn, Gunnar (2010): Simulation of lake's sedimentary phosphorus balance governed by bioirrigation using reactive multicomponent transport modelling. In: *Proceedings of the 18th International Conference on Computational Methods in Water Resources*. Carrera, Jesus (Ed.), Barcelona, 933-940.
8. Roskosch, Andrea; Hamann, Enrico; Nützmänn, Gunnar; Hupfer, Michael & Lewandowski, Jörg (2009): Ecohydrological effects of *Chironomus plumosus* larvae on lake sediments. In: *Proceedings of the 7th International Symposium on Ecohydraulics*. Concepcion, Chile, 10 pp.
7. Lewandowski, Jörg; Lischeid, Gunnar & Nützmänn, Gunnar (2009): Hydrological and biogeochemical processes involved in groundwater-surface water exchange at a lowland river. In: *Proceeding HydroEco 2009*. Bruthans, Jiri; Kovar, Karel & Nachtnebel, Peter (Eds.), 63-66.
6. Lewandowski, Jörg & Nützmänn, Gunnar (2008): Surface water-groundwater interactions: Hydrological and biogeochemical processes at the lowland River Spree (Germany). In:



*Surface Water-Groundwater Interactions: Process Understanding, Conceptualization and Modelling: Proceedings of Symposium HS1002 at IUGG 2007.* Abesser, Corinna; Wagener, Thorsten & Nützmann, Gunnar (Eds.). Oxfordshire, IAHS Publ. 321, 30-38.

5. Lewandowski, Jörg & Nützmann, Gunnar (2007): Small-scale water- and nutrient-exchange between lowland River Spree (Germany) and adjacent groundwater, In: *Proceedings of the 35th congress of the International Association of Hydrogeologists.* Lisbon, 8 pp.
4. Roskosch, Andrea; Hupfer, Michael; Nützmann, Gunnar & Lewandowski, Jörg (2007): Flow velocities and rates in burrows of *Chironomus plumosus* (Diptera: Chironomidae) in lake sediments. In: *Proceedings of the 11th Workshop on Physical Processes in Natural Waters*, Berlin, Berichte des IGB, Heft 25, 179-186.
3. Lewandowski, Jörg; Roskosch, Andrea; Hupfer, Michael & Nützmann, Gunnar (2007): Hydraulic and biogeochemical impacts of chironomids on nutrients. In: *Proceedings of the 6th International Symposium on Ecohydraulics.* Christchurch, New Zealand, 4 pp.
2. Lewandowski, Jörg & Hupfer, Michael (2005): Impact of macrozoobenthos on two-dimensional small-scale heterogeneity of pore water phosphorus concentrations in lake sediments. In: *Phosphates in Sediments.* Proceedings of the 4th International Symposium Carmona (Spain). Serrano, Laura & Golterman, Han L. (Eds.). Leiden: Backhuys, 171-172.
1. Greskowiak, Janek; Massmann, Gudrun; Wiese, Bernd; Lewandowski, Jörg; Nützmann, Gunnar & Pekdeger, Asaf (2004): Geochemical changes under alternating saturated and unsaturated conditions during artificial groundwater recharge via ponded infiltration of surface water - A field study. In: *Saturated and Unsaturated Zone Workshop Proceedings.* Rome, 157-162.

## Extended proceedings of national conferences

12. Jordan, Sylvia; Ebeling, Christian; Lewandowski, Jörg & Hupfer, Michael (2011). Langzeitexperiment zum Einfluss von Chironomiden-Larven auf die Phosphor-Festlegung im Sediment (Long-term experiment to study the impact of chironomid larvae on P fixation in the sediment, in German). Hardeggen, *Erweiterte Zusammenfassung der DGL-Jahrestagung 2010*, 109-113.
11. Roskosch, Andrea; Dziallas, Claudia.; Grossart, Hans-Peter; Hupfer, Michael & Lewandowski, Jörg (2010). Die Auswirkung von Bioirrigation auf mikrobielle Gemeinschaften und Prozesse in limnischen Sedimenten (Impacts of bioirrigation of microbial communities and processes in limnetic sediments, in German). Hardeggen, *Erweiterte Zusammenfassung der DGL-Jahrestagung 2009*, 47-53.
10. Schwoch, Claudia; Nützmann, Gunnar & Lewandowski, Jörg (2010): Geochemische Heterogenität im Grundwasserleiter einer Aue an der Grenzfläche zum Fluss (Geochemical heterogeneity in a floodplain aquifer close to the river-floodplain interface, in German). Hardeggen, *Erweiterte Zusammenfassung der DGL-Jahrestagung 2009*, 321-324.
9. Lewandowski, Jörg & Hupfer, Michael (2009): Wirkt sich Meromixie positiv oder negativ auf die Trophie aus? Fallbeispiel Burgsee (Is the impact of meromixis on lake trophic positive or negative? Case study Lake Burgsee, Bad Salzungen, in German). Werder, *Erweiterte Zusammenfassung der DGL-Jahrestagung 2008*, 216-220.
8. Ackermann, Juliane; Nützmann, Gunnar & Lewandowski, Jörg (2009): Kleinskalige Variabilität der Phosphat-Konzentrationen im Sediment-Porenwasser des Flachlandflusses Spree und eines Altarms (Small-scale variability phosphate concentrations in the pore water of the lowland River Spree and an oxbow, in German). Werder, *Erweiterte Zusammenfassung der DGL-Jahrestagung 2008*, 413-417.
7. Roskosch, Andrea; Jordan, Sylvia; Hette, Nicolas; Buchert, Ralph; Khalili, Arzhang; Morad, Mohammad Reza; Nützmann, Gunnar; Hupfer, Michael & Lewandowski, Jörg (2009): Die Wirkung von *Chironomus plumosus* (Diptera: Chironomidae) auf

Transportprozesse in limnischen Sedimenten (The impact of *Chironomus plumosus* (Diptera: Chironomidae) on transport paths in limnetic sediments, in German). Werder, *Erweiterte Zusammenfassung der DGL-Jahrestagung 2008*, 449-454.

6. Seibt, Christian; Hamann, Enrico; Roskosch, Andrea; Nützmann, Gunnar & Lewandowski, Jörg (2009): Modellierung der von Chironomiden induzierten Austauschprozesse zwischen Sediment und Freiwasser. Werder, *Erweiterte Zusammenfassung der DGL-Jahrestagung 2008*, 460-465.
5. Roskosch, Andrea; Hupfer, Michael; Nützmann, Gunnar & Lewandowski, Jörg (2008): Messung von Fließgeschwindigkeiten und Pumpraten in Wohnröhren von *Chironomus plumosus* (Measurements of flow velocities and pumping rates in burrows of *Chironomus plumosus*, in German). Werder, *Erweiterte Zusammenfassung der DGL-Jahrestagung 2007*, 39-43.
4. Nogeitzig, Alexander; Nützmann, Gunnar; Lewandowski, Jörg & Hupfer, Michael (2008): Reaktive Transportmodellierung des Phosphor-Kreislaufs in Seesedimenten unter dem Einfluss von Bioirrigation durch *Chironomus plumosus* (Reactive transport modelling of the phosphorus cycling in lake sediments under the impact of bioirrigation of *Chironomus plumosus*, in German). Werder, *Erweiterte Zusammenfassung der DGL-Jahrestagung 2007*, 106-110.
3. Lewandowski, Jörg; Laskov, Christine & Hupfer, Michael (2007): Bildung reaktiver Zonen in Seesedimenten durch die Besiedlung mit Makrophyten und Makrozoobenthos (Formation of reactive zones in lake sediments due to the colonization with macrophytes and macrozoobenthos, in German). Werder, *Erweiterte Zusammenfassung der DGL-Jahrestagung 2006*, 631-635.
2. Laskov, Christine; Herzog, Christiane; Lewandowski, Jörg & Hupfer, Michael (2005): Miniaturisierte photometrische Methoden für die Porenwasseranalytik (Miniaturized photometric methods for pore water analysis, in German). *Kurzreferate Jahrestagung der Wasserchemischen Gesellschaft*, 147-151.
1. Lewandowski, Jörg; Schauser, Inke & Hupfer, Michael (2003): Untersuchungsprogramme im Vorfeld von Seenrestaurierungen (Investigations required before lake restoration measures, in German). Werder, *Erweiterte Zusammenfassung der DGL-Jahrestagung 2002*, 735-740.

## Book chapters and other publications

3. Meinikmann, Karin; Hupfer, Michael; Nützmann, Gunnar & Lewandowski, Jörg (2016): Methods for the determination of groundwater-surface water interactions (in German, Methoden zur Erfassung von Grundwasser-Oberflächenwasser-Interaktionen. In: Hupfer, Michael; Calmano, Wolfgang; Fischer, Helmut & Klapper, Helmut (eds.): Handbook Applied Limnology (in German, Handbuch Angewandte Limnologie). Weinheim: Wiley-VCH, Kapitel III-1.2.2, 32. Erg. Lfg. 2/15, 39 pp.
2. Hendriks, Dimmie M. D.; Okruszko, Tomasz; Acreman, Mike; Grygoruk, Mateusz; Duel, Harm; Buijse, Tom; Schutten, Jochan; Mirosław-Świątek, Dorotea; Henriksen, Hans Jørgen; Sanchez Navarro, Rafael; Broers, Hans-Peter; Lewandowski, Jörg; Old, Gareth; Whiteman, Mark; Johns, Tim; Kaandorp, Vince; Baglioni, Marco; Holgersson, Björn & Kowalczyk, A. (2015): Bringing groundwater to the surface; Groundwater-river interaction as driver for river ecology. REFORM Policy Paper, 14 p.
1. Lewandowski, Jörg; Casper, Peter & Hupfer, Michael (2003): Small-scale horizontal heterogeneity of pore water phosphate in lakes. *Berichte des IGB* 17, 27-35.

## Invited talks

20. Lewandowski, Jörg; Meinikmann, Karin; Nützmann, Gunnar and Rosenberry, Donald O. (2016): Lacustrine and submarine groundwater discharge fuel eutrophication. Denver, Geological Society of America GSA, 25 Sep. – 28 Sep. 2016, invited talk.

19. Tockner, Klement & Lewandowski, Jörg (2015): Real-time hydroecology. Vienna, HydroEco, 13–16 April 2015, invited talk.
18. Lewandowski, Jörg; Meinikmann, Karin; Pöschke, Franziska; Nützmann, Gunnar & Rosenberry, Donald O. (2015): Groundwater - the disregarded component in lake water and nutrient budgets. San Francisco, American Geophysical Union Fall Meeting (AGU), 14 Dec. – 18 Dec. 2015, invited talk.
17. Lewandowski, Jörg; Krause, Stefan & Nützmann, Gunnar (2014): Groundwater–river interactions: Hydrology, biogeochemistry and ecology. Bierbza, Reform workshop, 15 – 17 Sep 2014, invited talk.
16. Lewandowski, Jörg; Nützmann, Gunnar & Tockner, Klement (2014): Groundwater–surface water interactions: Coupling of hydrology, biogeochemistry and ecology. Basel, Tagliamento workshop, 27 Oct 2014, invited talk.
15. Lewandowski, Jörg (2013): Small Larvae, Large Impact – Impacts of macrozoobenthos on transport and turnover processes at sediment-lake interfaces. Kolloquium, Helmholtz Zentrum für Umweltforschung UFZ, 31 Jan 2013, invited talk.
14. Lewandowski, Jörg (2013): Kopplung hydrodynamischer und biogeochemischer Prozesse in aquatischen Grenzonen (Coupling of hydrodynamic and biogeochemical processes in aquatic interfaces, in German). Berlin, Humboldt-University Berlin, Geomorphology Colloquium, 22 Oct 2013, invited talk.
13. Lewandowski, Jörg (2013): Hydrodynamik und Biogeochemie an aquatischen Grenzonen – Von unsichtbaren Grundwassereinträgen bis zu kleinen Larven mit großer Wirkung (Hydrodynamics and biogeochemistry at aquatic interfaces – from invisible groundwater discharge to small larvae with large impact, in German). Münster, Westfälische Wilhelms-Universität Münster, ILÖK-Colloquium, 17 Dec 2013, invited talk.
12. Lewandowski, Jörg (2012): Kleine Larve, große Wirkung. Einflüsse von Mückenlarven auf Stofftransport und biogeochemischen Umsatz an der Sediment-Wasser Grenze (Small larva, large impact. Impacts of midge larvae on matter transport and biogeochemical turnover at the sediment-water interface, in German). Geoökologisches Kolloquium, Institut für Geoökologie, TU Braunschweig, 13.12.2012, invited talk.
11. Lewandowski, Jörg & Hupfer, Michael (2012): Restoration of Lake Arendsee. Guatemala-City, Guatemala, Workshop Validation of Methodologies for the Restoration of Lago Amatitlán, 04 Jun. – 8 Jun. 2012, invited talk.
10. Lewandowski, Jörg (2012): Research for the future of our freshwaters. Guatemala-City, Guatemala, Workshop Validation of Methodologies for the Restoration of Lago Amatitlán, 04 Jun. – 8 Jun. 2012, invited talk.
9. Lewandowski, Jörg & Hupfer, Michael (2012): Aeration in Lake Amatitlán? Guatemala-City, Guatemala, Workshop Validation of Methodologies for the Restoration of Lago Amatitlán, 04 Jun. – 8 Jun. 2012, invited talk.
8. Lewandowski, Jörg & Hupfer, Michael (2012): Die Rolle von Phosphat im Sediment als interne Nährstoffquelle (The significance of phosphorus in lake sediments as internal nutrient source, in German). Stemshorn, Germany, 2<sup>nd</sup> Limnological Symposium Lake Dümmer, 20 Apr. 2012, invited talk.
7. Angermann, Lisa; Lewandowski, Jörg; Fleckenstein, Jan H.; Krause, Stefan & Nützmann, Gunnar (2011): Development and application of a heat pulse sensor for in-situ measurement of hyporheic flow. San Francisco, California, American Geosciences Union (AGU), 05 Dec. – 09 Dec. 2011, invited talk.
6. Pöschke, Franziska & Lewandowski, Jörg (2011): Kleinskalige Heterogenitäten von Nährstoffen (N & P) im Grundwasserleiter einer Aue (Small-scale heterogeneity of the nutrient nitrogen and phosphorous in a floodplain aquifer, in German). Berlin, Germany, Federal Institute for Geosciences and Natural Resources (BGR), 23 Sep. 2011, invited talk.
5. Lewandowski, Jörg & Roskosch, Andrea (2010): Kleine Larve, große Wirkung - Einflüsse von Makrozoobenthos auf Stofftransport und biogeochemische Prozesse in der

Grenzzone Sediment-See (Small larva, large impact. Effects of macrozoobenthos on transport and biogeochemical turnover at the sediment-lake interface, in German). Dresden, Germany, Technical University Dresden, Hydrobiology Seminar, 04 Nov. 2010, invited talk.

4. Roskosch, Andrea; Lewandowski, Jörg; Hupfer, Michael & Nützmann, Gunnar (2008): Der Einfluss von *Chironomus plumosus* Larven auf Transport- und Austauschprozesse in limnischen Sedimenten (The impact of *Chironomus plumosus* larvae on transport and exchange processes in limnetic sediments, in German). Bad Saarow, Germany, Brandenburg University of Technology Cottbus, 13 Nov. 2008, invited talk.
3. Lewandowski, Jörg & Nützmann, Gunnar (2007): Small-scale water- and nutrient-exchange between lowland River Spree (Germany) and adjacent groundwater. Wallingford, Great Britain, British Geological Survey, 27 Nov. 2007, invited talk.
2. Lewandowski, Jörg; Roskosch, Andrea; Hupfer, Michael & Nützmann, Gunnar (2007): Hydraulic and biogeochemical impacts of chironomids on nutrients. Kastanienbaum, Switzerland, EAWAG, 08 Mar. 2007, invited talk.
1. Lewandowski, Jörg; Roskosch, Andrea; Hupfer, Michael & Nützmann, Gunnar (2007): Hydraulic and biogeochemical impacts of chironomids on nutrients. Bremen, Germany, Max-Planck Institute for Marine Microbiology, 02 May 2007, invited talk.

## Talks and posters presented on international meetings

101. Posselt, Malte; Schaper, Jonas; Ribbenstedt, Anton & Benskin, Jonathan P. (2016): Fingerprinting micropollutant transformation in hyporheic zones. Nantes, SETAC Europe 26th Annual Meeting, 22 – 26 Jun. 2016, poster.
100. Posselt, Malte; Schaper, Jonas & Jäger, Anna (2016): Investigating time series depth profiles of micropollutants in hyporheic zones. Berlin, EHF (European Hyporheic Forum), 13 Jun. 2016, poster.
99. Marruedo Arricibita, Amaia I.; Lewandowski, Jörg; Krause, Stefan and Hannah, David M. (2016): Characterization of lacustrine groundwater discharge and resulting lake-internal upwelling by thermal infrared imaging and fibre-optic distributed temperature sensing: a mesocosm experiment. Bath, UK, 19<sup>th</sup> Workshop on Physical Processes in Natural Waters, 12 Jul. – 15 Jul. 2016, talk.
98. Baranov, Viktor; Lewandowski, Jörg and Krause, Stefan (2016): Bioturbation is influencing CO<sub>2</sub> emission from shallow temperate lakes. Torino, Italy, International Society of Limnology (SIL), 31 Jul. – 05 Aug. 2016, talk.
97. Baranov, Viktor A.; Krause, Stefan and Lewandowski, Jörg (2016): Aquatic insect larvae are major players in mediating lakes' carbon-sequestering capacities in the warming world. Florida, Orlando, International Congress of Entomology, 25 Sep. – 30 Sep. 2016, talk.
96. Wu, Liwen; Singh, Tanu; Lewandowski, Jörg; Nützmann, Gunnar; Wörman, Anders L. E.; Hannah, David M.; Krause, Stefan and Gomez-Velez, Jesus D. (2016): Impacts of freshets on hyporheic exchange flow under gaining and losing conditions. San Francisco, AGU fall meeting, 12 – 16 Dec. 2016, poster.
95. Schaper, Jonas L.; Popp, Andrea L.; Meinikmann, Karin; Shanafield, Margaret A.; Banks, Eddie W.; Putschew, Anke; Nützmann, Gunnar and Lewandowski, Jörg (2016): Fate of polar organic trace compounds infiltrating into an alluvial aquifer from an urban lowland river. San Francisco, AGU fall meeting, 12 – 16 Dec. 2016, talk.
94. Krause, Stefan; Baranov, Viktor A.; Lewandowski, Jörg; Blaen, Phil and Romeijn, Paul (2016): The good, the bad and the ugly – Interacting physical, biogeochemical and biological controls of nutrient cycling at ecohydrological interfaces. San Francisco, AGU fall meeting, 12 – 16 Dec. 2016, talk.
93. Lewandowski, Jörg; Meinikmann, Karin; Nützmann, Gunnar and Rosenberry, Donald O. (2016): Lacustrine groundwater discharge – the disregarded component of water and

nutrient budgets. Campinas, Brazil, Brazilian-German Frontiers of Science and Technology Symposia (BRAGFOST, Alexander von Humboldt Foundation), 20 – 23 Sep. 2016, poster.

92. Blaen, Phillip; Kurz, Marie; Knapp, Julia; Mendoza-Lera, Clara; Lee-Cullin, Joe; Klaar, Megan; Drummond, Jennifer; Jäger, Anna; Zarnetske, Jay; Lewandowski, Jörg; Marti, Eugenia; Ward, Adam; Fleckenstein, Jan; Datry, Thibault; Larned, Scott and Krause, Stefan (2016): Multi-scale controls on spatial variability in river biogeochemical cycling. Vienna, EGU General Assembly, 17 Apr. – 22 Apr. 2016, talk.
91. Krause, Stefan; Lewandowski, Jörg; Hannah, David; McDonald, Karlie; Folegot, Silvia and Baranov, Victor (2016): Ecohydrological interfaces as dynamic hotspots of biogeochemical cycling. Vienna, EGU General Assembly, 17 Apr. – 22 Apr. 2016, poster.
90. Baranov, Viktor; Queiros, Ana; Widdicombe, Steve; Stephens, Nick; Lesin, Gennadi; Krause, Stefan and Lewandowski, Jörg (2016): A novel approach to assess biotic oxygen consumption in marine sediment communities. Vienna, EGU General Assembly, 17 Apr. – 22 Apr. 2016, poster.
89. Baranov, Viktor; Lewandowski, Jörg; Krause, Stefan and Romeijn, Paul (2016): Small ecosystem engineers as important regulators of lake's sediment respiration. Vienna, EGU General Assembly, 17 Apr. – 22 Apr. 2016, talk.
88. Marruedo Arricibita, Amaia I.; Lewandowski, Jörg; Krause, Stefan and Hannah, David M. (2016): Comparative study of thermal infrared imaging and fibre-optic distributed temperature sensing for detecting lacustrine groundwater discharge: a mesocosm experiment. Vienna, EGU General Assembly, 17 Apr. – 22 Apr. 2016, poster.
87. Marruedo Arricibita, Amaia I.; Lewandowski, Jörg; Krause, Stefan and Dämpfling, Hauke (2016): Upwelling of warm water in lakes due to lacustrine groundwater discharge. Vienna, EGU General Assembly, 17 Apr. – 22 Apr. 2016, poster.
86. Lewandowski, Jörg; Meinikmann, Karin; Felsmann, Katja; Hölker, Franz and Premke, Katrin (2016): Are citizen science projects useful for studying complex processes such as lacustrine groundwater discharge? Vienna, EGU General Assembly, 17 Apr. – 22 Apr. 2016, poster.
85. Pöschke, Franziska; Schlichting, Hendrik and Lewandowski, Jörg (2016): Identification of temporal and small-scale spatial variations of phosphate concentration in the near-shore groundwater of an oligotrophic lake. Vienna, EGU General Assembly, 17 Apr. – 22 Apr. 2016, poster.
84. Meinikmann, Karin; Hupfer, Michael and Lewandowski, Jörg (2016): Phosphorus in lacustrine groundwater discharge drives eutrophication. Vienna, EGU General Assembly, 17 Apr. – 22 Apr. 2016, poster.
83. Krause, Stefan; Hannah, David; Blume, Theresa; Angermann, Lisa; Lewandowski, Jörg & Cassidy, Nigel (2016): Nested heat tracer experiments for identifying heterogeneity of aquifer-river exchange at multiple scales. Vienna, EGU General Assembly, 17 Apr. – 22 Apr. 2016, poster.
82. Blaen, Phillip; Kurz, Marie; Knapp, Julia; Mendoza-Lera, Clara; Lee-Cullin, Joe; Klaar, Megan; Drummond, Jennifer; Jaeger, Anna; Zarnetske, Jay; Lewandowski, Joerg; Marti, Eugenia; Ward, Adam; Fleckenstein, Jan; Datry, Thibault; Larned, Scott & Krause, Stefan (2016): Geomorphic and substrate controls on spatial variability in river solute transport and biogeochemical cycling. Vienna, EGU General Assembly, 17 Apr. – 22 Apr. 2016, poster.
81. Marruedo Arricibita, Amaia I.; Lewandowski, Jörg; Krause, Stefan and Dämpfling, Hauke (2016): Comparative study of thermal infrared imaging and fibre-optic distributed temperature sensing for detecting lacustrine groundwater discharge: a mesocosm experiment. Berlin, EHF (European Hyporheic Forum), 13 Jun. 2016, poster.
80. Marruedo Arricibita, Amaia I.; Lewandowski, Jörg; Krause, Stefan; Hannah, David M. & Dämpfling, Hauke (2015): Quantifying the efficiency of fibre-optic distributed temperature sensing for detecting lacustrine groundwater discharge (LGD): a mesocosm experiment.

San Francisco, American Geophysical Union Fall Meeting (AGU), 14 Dec. – 18 Dec. 2015, poster.

79. Lewandowski, Jörg; Krause, Stefan & Interfaces Team (2015): Conceptual framework for aquatic interfaces. San Francisco, American Geophysical Union Fall Meeting (AGU), 14 Dec. – 18 Dec. 2015, poster.
78. Baranov, Viktor; Lewandowski, Jörg; Romeijn, Paul & Krause, Stefan (2015): Bioirrigation impacts on sediment respiration and microbial metabolic activity. San Francisco, American Geophysical Union Fall Meeting (AGU), 14 Dec. – 18 Dec. 2015, poster.
77. Meinikmann, Karin; Hupfer, Michael; Nützmänn, Gunnar & Lewandowski, Jörg (2015): Is groundwater-borne phosphorus relevant for lake eutrophication? Berlin, 17th IWA International Conference on Diffuse Pollution and Eutrophication, 13 Sep. – 18 Sep. 2015, talk.
76. Lewandowski, Jörg; Meinikmann, Karin; Pöschke, Franziska; Nützmänn, Gunnar & Rosenberry, Donald O. (2015): Lacustrine and submarine groundwater discharge fuel eutrophication – a literature review of a seriously underestimated import path. Berlin, 17th IWA International Conference on Diffuse Pollution and Eutrophication, 13 Sep. – 18 Sep. 2015, talk.
75. Pöschke, Franziska; Lewandowski, Jörg; Engelhardt, Christof; Ruhtz, Thomas & Kirillin, Georgiy (2015): Upwelling in dimictic lakes in spring. Landau, 18th Workshop on Physical Processes in Natural Waters, 25 – 28 August 2015, talk.
74. Rosenberry, Donald O.; Lewandowski, Jörg; Meinikmann, Karin & Nützmänn, Gunnar (2015): Water and nutrient fluxes at the sediment-water ecotone of lakes: How important is exchange with groundwater? Montreal, AGU Joint Assembly, 03 May – 07 May 2015, talk.
73. Lewandowski, Jörg; Meinikmann, Karin; Pöschke, Franziska; Nützmänn, Gunnar & Rosenberry, Donald O. (2015): Submarine and lacustrine groundwater discharge and groundwater-mediated nutrient transport. Vienna, EGU General Assembly, 12 Apr. – 17 Apr. 2015, talk.
72. Lewandowski, Jörg; Pöschke, Franziska; Meinikmann, Karin; Rudnick, Sebastian; Périllon, Cécile; Elmarami, Hatem; Massmann, Gudrun & Stumpp, Christine (2015): Stable water isotopes as tracers in studies of lacustrine groundwater discharge. Vienna, EGU General Assembly, 12 Apr. – 17 Apr. 2015, poster.
71. Lewandowski, Jörg & Krause, Stefan (2015): Coupling of hydrodynamic and biogeochemical processes at aquatic interfaces. Vienna, EGU General Assembly, 12 Apr. – 17 Apr. 2015, poster.
70. Hupfer, Michael; Lewandowski, Jörg; Kleeberg, Andreas & Reitzel, Kasper (2015): Long-term efficiency of lake restoration by chemical phosphorus precipitation: Scenarios with a phosphorus balance model. Granada, ASLO Aquatic Sciences Meeting, 22 Feb. – 27 Feb. 2015, talk.
69. Lewandowski, Jörg; Hölker, Franz; Baranov, Viktor; Hupfer, Michael; Vanni, Michael J.; Kuiper, Jan J.; Meile, Christof; Grossart, Hans-Peter; Stief, Peter; Adrian, Rita; Lorke, Andreas; Dellwig, Olaf; Brand, Andreas; Mooij, Wolf M. & Nützmänn, Gunnar (2015): 2 : 1 for team macro: Chironomids are key players not only in benthic processes but even in entire lake ecosystems. Granada, ASLO Aquatic Sciences Meeting, 22 Feb – 27 Feb. 2015, talk.
68. Mark O. Gessner, Kasprzak, P. & Lewandowski, J. (2014): Lake monitoring and recent limnological changes. Bonn, Tereno International Conference 29 Sep – 2 Oct 2014, talk.
67. Cécile Périllon, Franziska Pöschke, Jörg Lewandowski, Sabine Hilt (2014): Groundwater seepage affects periphyton – submerged macrophyte interactions in the littoral of an oligotrophic lake. Antalya, Shallow lakes, 12 – 17 Oct 2014, talk.
66. Hupfer, Michael; Jordan, Sylvia; Herzog, Christiane & Lewandowski, Jörg (2014): Impacts of chironomids on phosphorus retention in the sediment of a shallow lake: A long- term laboratory study. Antalya, Shallow lakes, 12 – 17 Oct 2014, talk.

65. Lewandowski, Jörg; Hölker, Franz; Hupfer, Michael; Adrian, Rita; Nützmann, Gunnar; Lorke, Andreas; Kuiper, Jan J. & Mooij, Wolf M. (2014): The underestimated impact of tube-dwelling macrozoobenthos in lake ecosystems: Eroding a long-lasting limnological paradigm. Plymouth, Nereis Park Conference, 7 Aug – 10 Aug 2014, talk.
64. Baranov, Viktor; Lewandowski, Jörg & Hupfer, Michael (2014): Does bioturbation of chironomids (Diptera, Chironomidae) increase or decrease phosphorus release from lacustrine sediments? Plymouth, Nereis Park Conference, 7 Aug – 10 Aug 2014, talk.
63. Pöschke, Franziska; Lewandowski, Jörg & Nützmann, Gunnar (2014): Lacustrine groundwater discharge (LGD) to a closed-basin lake - a concept for estimating the effects of a changing catchment on the lake water balance. Vienna, EGU General Assembly, 27 Apr. – 02 May 2014, poster.
62. Lewandowski, Jörg; Pöschke, Franziska; Rudnick, Sebastian; Meinikmann, Karin & Périllon, Cécile (2014): Usefulness of O-18 and deuterium to study transport processes at aquatic interfaces. Vienna, EGU General Assembly, 27 Apr. – 02 May 2014, poster.
61. Baranov, Viktor A. & Lewandowski, Jörg (2014): Chironomidae larvae role in nutrient cycling in freshwater ecosystems. České Budějovice, Czech Republic, 9th International Symposium on Chironomidae, 18 – 21 Aug 2014, poster.
60. Lewandowski, Jörg; Meinikmann, Karin; Nützmann, Gunnar; Rosenberry, Donald O. (2013): Should we consider lacustrine groundwater discharge (LGD) in nutrient budgets of lakes? New Orleans, Louisiana, ASLO Aquatic Sciences Meeting, 17 Feb. – 22 Feb. 2013, talk.
59. Brand, Andreas; Lewandowski, Jörg; Hamann, Enrico & Nützmann, Gunnar (2013): Can advection be disregarded in muddy, bioirrigated sediments? – A model study. New Orleans, Louisiana, ASLO Aquatic Sciences Meeting, 17 Feb. – 22 Feb. 2013, talk.
58. Lehr, Christian; Lewandowski, Jörg & Lischeid, Gunnar (2013): Effects of an restored stream channel on groundwater dynamics. Vienna, EGU General Assembly, 13 Apr. – 17 Apr. 2013, poster.
57. Lewandowski, Jörg; Meinikmann, Karin; Ruhtz, Thomas; Pöschke, Franziska & Kirillin, Georgiy (2013): Lacustrine groundwater discharge: Combination of air-borne and ground-based studies. Vienna, EGU General Assembly, 13 Apr. – 17 Apr. 2013, poster.
56. Meinikmann, Karin; Lewandowski, Jörg; Nützmann, Gunnar & Hupfer, Michael: Discharge of groundwater-borne phosphorus into a lake and its spatial variability. Vienna, EGU General Assembly, 13 Apr. – 17 Apr. 2013, talk.
55. Nützmann, Gunnar; Lewandowski, Jörg; Brand, Andreas; Roskosch, Andrea & Hupfer, Michael (2013): Impacts of macrozoobenthos on hydrodynamics and processes at the sediment-lake interface: Experimental and mathematical investigations. Rennes, France, 4th International Multidisciplinary Conference on Hydrology and Ecology (HydroEco), 13 May – 16 May 2013, talk.
54. Lewandowski, Jörg; Pöschke, Franziska; Meinikmann, Karin; Ruhtz, Thomas; Engelhardt, Christof; Kirillin, Georgiy; Dämpfling, Hauke & Nützmann, Gunnar (2013): Real-time acquisition of lacustrine groundwater discharge. Koblenz, Germany, 6th International Conference on Water Resources and Environment Research (ICWRER), 3 Jun. – 7 Jun. 2013, talk.
53. Meinikmann, Karin; Sacher, Andrea; Graumnitz, Stephanie; Piekarski, Jens; Hupfer, Michael & Lewandowski, Jörg (2013): Phosphorus-loads to surface waters from agricultural catchments – Do we need high resolution measurements? Münster, Germany, 8th Symposium for European Freshwater Sciences (SEFS), 1 Jul. – 5 Jul. 2013, talk.
52. Lewandowski, Jörg; Pöschke, Franziska; Meinikmann, Karin; Ruhtz, Thomas; Engelhardt, Christof; Kirillin, Georgiy; Dämpfling, Hauke & Nützmann, Gunnar (2013): Real-time acquisition of lacustrine groundwater discharge. Münster, Germany, 8th Symposium for European Freshwater Sciences (SEFS), 1 Jul. – 5 Jul. 2013, talk.

51. Lewandowski, Jörg; Meinikmann, Karin; Pöschke, Franziska; Nützmann, Gunnar & Rosenberry, Donald O. (2013): From submarine to lacustrine groundwater discharge. Gothenburg, IAHS & IAPSO & IASPEI, 22 Jul. – 26 Jul. 2013, talk.
50. Meinikmann, Karin; Lewandowski, Jörg & Nützmann, Gunnar & Hupfer, Michael (2013): Spatial variability of lacustrine groundwater discharge (LGD) and its relevance for lake eutrophication. Gothenburg, IAHS & IAPSO & IASPEI, 22 Jul. – 26 Jul. 2013, talk.
49. Rudnick, Sebastian; Lewandowski, Jörg & Nützmann, Gunnar (2013): Investigation of groundwater-surface water interactions in shallow lakes using hydraulic head data and a groundwater net balance. Gothenburg, IAHS & IAPSO & IASPEI, 22 Jul. – 26 Jul. 2013, talk.
48. Nützmann, Gunnar; Meinikmann, Karin; Pöschke, Franziska; Ruhtz, Thomas; Kirillin, Georgiy & Lewandowski, Jörg (2013): Real-time eco-hydrology: investigating groundwater – surface water exchange combining different technologies. Gothenburg, IAHS & IAPSO & IASPEI, 22 Jul. – 26 Jul. 2013, talk.
47. Lewandowski, Jörg; Meinikmann, Karin; Ruhtz, Thomas; Kirillin, Georgiy; Pöschke, Franziska & Nützmann, Gunnar (2012): Lacustrine groundwater discharge Localization of lake water quality deterioration based on combining airborne thermal infrared radiation (TIR) to detect major lacustrine groundwater discharge (LGD) zones and ground-based measurements to determine pattern of groundwater contamination. San Francisco, AGU fall meeting, 03 Dec. – 07 Dec. 2012, poster.
46. Blume, Theresa; Tecklenburg, Christina; Krause, Stefan & Lewandowski, Jörg (2012): Groundwater-Surface Water Interactions along a Lake Shore: Spatial Patterns and Temporal Dynamics. San Francisco, AGU fall meeting, 03 Dec. – 07 Dec. 2012, poster.
45. Krause, Stefan; Blume, Theresa; Hannah, David M.; Angermann, Lisa; Lewandowski, Jörg & Cassidy, Nigel (2012): Nested heat tracer experiments for quantifying spatial patterns of aquifer-river exchange at multiple scales. Charlotte, USA, Geological Society of America (GSA) Annual meeting, 04 Nov. – 07. Nov. 2012, talk.
44. Brand, Andreas; Lewandowski, Jörg; Hamann, Enrico & Nützmann, Gunnar (2012): Advection in biorrigated muddy sediments – can it be relevant? A model study. Illinois, Urbana-Champaign, XIX International Conference on Computational Methods in Water Resources (CMWR), 17 Jun – 22 Jun., talk.
43. Lewandowski, Jörg; Meinikmann, Karin; Pöschke, Franziska & Nützmann, Gunnar (2012): Groundwater discharge to lakes (GDL) – the disregarded component of lake nutrient budgets. Vienna, Austria, European Geosciences Union General Assembly (EGU), 23 Apr. – 27 Apr. 2012, poster.
42. Blume, Theresa; Krause, Stefan; Meinikmann, Karin & Lewandowski, Jörg (2012): Spatial and temporal variability of groundwater-surface water interactions along a lake shore. Vienna, Austria, European Geosciences Union General Assembly (EGU), 23 Apr. – 27 Apr. 2012, talk.
41. Krause, Stefan; Hannah, David M.; Blume, Theresa; Angermann, Lisa; Lewandowski, Jörg & Cassidy, Nigel J. (2012): Nested heat tracer experiments for identifying heterogeneity of aquifer-river exchange at multiple scales. Vienna, Austria, European Geosciences Union General Assembly (EGU), 23 Apr. – 27 Apr. 2012, poster.
40. Fleckenstein, Jan H.; Neumann, Christiane; Hausner, Mark B.; Tyler, Scott W.; Angermann, Lisa & Lewandowski, Jörg (2011): Assessing spatial patterns of lake-groundwater exchange using distributed temperature sensing (DTS) and heat as a natural tracer. San Francisco, California, American Geosciences Union (AGU), 05 Dec. – 09 Dec. 2011, talk.
39. Lewandowski, Jörg; Hupfer, Michael; Roskosch, Andrea; Brand, Andreas & Nützmann, Gunnar (2011): Small larvae, large impact - Impacts of macrozoobenthos on hydrodynamic and biogeochemical processes at the sediment-lake interface. Kristineberg, Sweden, Nereis Park Conference, 29 Aug. – 31 Aug. 2011, talk.



38. Nützmann, Gunnar; Roskosch, Andrea & Lewandowski, Jörg (2011): Impact of *Chironomus plumosus* on water and nutrient transport in lake bed sediments - preliminary modelling results. Melbourne, Australia, International Union of Geodesy and Geophysics General Assembly (IUGG), 28 Jun. – 07 Jul. 2011, talk.
37. Lewandowski, Jörg & Nützmann, Gunnar (2011): Groundwater–surface water exchange before and after reopening of a river meander. Melbourne, Australia, International Union of Geodesy and Geophysics General Assembly (IUGG), 28 Jun. – 07 Jul. 2011, talk.
36. Lewandowski, Jörg & Nützmann, Gunnar (2011): Small larva, large impact: Impacts of macrozoobenthos on hydrodynamic and biogeochemical processes in lake sediments. Melbourne, Australia, International Union of Geodesy and Geophysics General Assembly (IUGG), 28 Jun. – 07 Jul. 2011, talk.
35. Lewandowski, Jörg; Angermann, Lisa & Nützmann, Gunnar (2011): Hydrological and biogeochemical processes involved in groundwater-surface water exchange at a lowland river. Ascona, Switzerland, River Corridor Restoration Conference, 13 Mar. – 18 Mar. 2011, talk.
34. Pöschke, Franziska; Lewandowski, Jörg & Nützmann, Gunnar (2011): Small-scale heterogeneities of nutrient turnover and transport in a floodplain's aquifer. Vienna, Austria, European Geosciences Union General Assembly (EGU), 04 Apr. – 08 Apr. 2011, poster.
33. Schuchort, S.; Lewandowski, Jörg & Nützmann, Gunnar (2011): Hydrological and geochemical characterization of the hyporheic zone of an eutrophic lowland stream impacted by a wastewater treatment plant. Vienna, Austria, European Geosciences Union General Assembly (EGU), 04 Apr. – 08 Apr. 2011, poster.
32. Lewandowski, Jörg; Putschew, Anke; Schwesig, David; Neumann, Christiane & Radke, Michael (2011): Fate of organic micropollutants in the hyporheic zone of eutrophic lowland streams: results of a field study in the Erpe, Germany. Vienna, Austria, European Geosciences Union General Assembly (EGU), 04 Apr. – 08 Apr. 2011, poster.
31. Meinikmann, Karin; Lewandowski, Jörg & Hupfer, Michael (2011): Groundwater as main input path of nutrients to lake ecosystems - A case study from Germany. Vienna, Austria, European Geosciences Union General Assembly (EGU), 04 Apr. – 08 Apr. 2011, poster.
30. Angermann, Lisa; Lewandowski, Jörg; Fleckenstein, Jan H.; Krause, Stefan & Nützmann, Gunnar (2010): Insights into hydraulics of the hyporheic zone - in situ measurements give evidence about spatial flow patterns. Seoul, South Korea, 8<sup>th</sup> International Symposium on Ecohydraulics, 12 Sep. – 17 Sep. 2010, talk.
29. Lewandowski, Jörg; Cabezas, Alvaro; Angermann, Lisa & Nützmann, Gunnar (2010): Hydrological and biogeochemical processes involved in groundwater-surface water exchange at a lowland river. Seoul, South Korea, 8<sup>th</sup> International Symposium on Ecohydraulics, 12 Sep. – 17 Sep. 2010, talk.
28. Lewandowski, Jörg; Meinikmann, Karin & Nützmann, Gunnar (2010): Groundwater - The disregarded component in lake nutrient budgets. Vienna, Austria, European Geosciences Union General Assembly (EGU), 03 May – 07 May 2010, talk.
27. Roskosch, Andrea; Jordan, Sylvia; Hupfer, Michael; Nützmann, Gunnar & Lewandowski, Jörg (2010): Bioirrigation induced fluxes in sediments and their effects on nutrient distribution. Santa Fe, American Society of Limnology and Oceanography Summer Meeting (ASLO), 06 Jun. – 11 Jun. 2010, talk.
26. Hamann, Enrico; Greskowiak, Janek; Roskosch, Andrea; Jordan, Sylvia; Hupfer, Michael; Lewandowski, Jörg & Nützmann, Gunnar (2010): Simulation of lake's sedimentary phosphorus balance governed by bioirrigation using reactive multicomponent transport modelling. Barcelona, 18<sup>th</sup> International Conference on Computational Methods in Water Resources (CMWR). Barcelona, Spain, 21 Jun. – 24 Jun. 2010, talk.
25. Nützmann, Gunnar & Lewandowski, Jörg (2009): Hydrological processes involved in groundwater-surface water exchange at a lowland river: measurements and modelling.

Hyderabad, 8<sup>th</sup> International Association of Hydrological Sciences scientific assembly (IAHS) & 37<sup>th</sup> International Association of Hydrogeologists congress(IAH), Hyderabad, India, 06 Sep. – 12 Sep. 2009, talk.

24. Lewandowski, Jörg & Nützmann, Gunnar (2009): Hydrological and biogeochemical processes involved in groundwater-surface water exchange at a lowland river. Hyderabad, 8<sup>th</sup> International Association of Hydrological Sciences scientific assembly (IAHS) & 37<sup>th</sup> International Association of Hydrogeologists congress(IAH), Hyderabad, India, 06 Sep. – 12 Sep. 2009, talk.
23. Lewandowski, Jörg & Nützmann, Gunnar (2009): Hydrological and biogeochemical processes involved in groundwater-surface water exchange at a lowland river. San Pietro, Italy, Mini-Symposium on Fluvial Hydraulics, Morphodynamics & Ecology, 28 Apr. – 30 Apr. 2009, talk.
22. Angermann, Lisa; Fleckenstein, Jan H.; Nützmann, Gunnar & Lewandowski, Jörg (2009): Determination of small-scale flow directions and velocities in the hyporheic interstitial. Vienna, Austria, European Geosciences Union General Assembly (EGU), 20 Apr. – 24 Apr. 2009, talk.
21. Suck, Maria; Nützmann, Gunnar & Lewandowski, Jörg (2009): Ground water exfiltration in a river oxbow. Vienna, Austria, European Geosciences Union General Assembly (EGU), 20 Apr. – 24 Apr. 2009, poster.
20. Nützmann, Gunnar & Lewandowski, Jörg (2009): Hydrological processes involved in groundwater-surface water exchange at a lowland river: measurements and modelling. Vienna, Austria, European Geosciences Union General Assembly (EGU), 20 Apr. – 24 Apr. 2009, talk.
19. Lewandowski, Jörg; Fleckenstein, Jan H.; Hoehn, Eduard; Nützmann, Gunnar; Radke, Michael; Saenger, Nicole & Schmidt, Christian (2009): Hyporheic network (Hyporheisches Netzwerk). Vienna, Austria, European Geosciences Union General Assembly (EGU), 20 Apr. – 24 Apr. 2009, poster.
18. Lewandowski, Jörg; Lischeid, Gunnar & Nützmann, Gunnar (2009): Hydrological and biogeochemical processes involved in groundwater-surface water exchange at a lowland river. Vienna, Austria, 2<sup>nd</sup> International Multidisciplinary Conference on Hydrology and Ecology: Ecosystems Interfacing with Groundwater and Surface Water, 20 Apr. – 23 Apr. 2009, talk.
17. Roskosch, Andrea; Hamann, Enrico; Nützmann, Gunnar; Hupfer, Michael & Lewandowski, Jörg (2009): Ecohydrological effects of *Chironomus plumosus* larvae on lake sediments. Concepción, Chile, 7<sup>th</sup> International Symposium on Ecohydraulics, 12 Jan. – 15 Jan. 2009, talk.
16. Roskosch, Andrea; Khalili, Arzhang; Hamann, Enrico; Buchert, Ralph & Lewandowski, Jörg (2009): Impacts of macrozoobenthos on hydrodynamic processes at sediment-water interfaces. Nice, France, American Society of Limnology and Oceanography Aquatic Sciences Meeting (ASLO): A Cruise through Nice Waters, 26 Jan. – 30 Jan. 2009, talk.
15. Lewandowski, Jörg & Nützmann, Gunnar (2009): Biogeochemical processes involved in groundwater-surface water exchange at a lowland river. Nice, France, American Society of Limnology and Oceanography Aquatic Sciences Meeting (ASLO): A Cruise through Nice Waters, 26 Jan. – 30 Jan. 2009, talk.
14. Nützmann, Gunnar & Lewandowski, Jörg (2008): Modelling groundwater-surface water exchange on different scales: The river Spree example, NE Germany. San Francisco, Computational Methods in Water Resources (CMWR), 06 Oct. – 10 Oct. 2008, talk.
13. Lewandowski, Jörg & Nützmann, Gunnar (2008): Field study of groundwater-surface water interactions at the lowland River Spree (Germany). Vienna, Austria, European Geosciences Union General Assembly (EGU), 13 Apr. – 18 Apr. 2008, talk.
12. Roskosch, Andrea; Lewandowski, Jörg; Hupfer, Michael & Nützmann, Gunnar (2008): Impacts of *Chironomus plumosus* larvae on processes in lake sediments. St. John's,

Newfoundland & Labrador, American Society of Limnology and Oceanography Summer Meeting (ASLO), 08 Jun. – 13 Jun. 2008, talk.

11. Lewandowski, Jörg & Nützmann, Gunnar (2008): Field study of groundwater-surface water interactions at the lowland River Spree (Germany). Vienna, Austria, General Assembly of the European Geosciences Union (EGU), 14 Apr. – 18 Apr. 2008, talk.
10. Lewandowski, Jörg & Nützmann, Gunnar (2007): Small-scale water- and nutrient-exchange between lowland River Spree (Germany) and adjacent groundwater. Lisbon, Portugal, 35<sup>th</sup> congress of the International Association of Hydrogeologists (IAH), 17 Sep. – 21 Sep. 2007, talk.
9. Roskosch, Andrea; Hupfer, Michael; Nützmann, Gunnar & Lewandowski, Jörg (2007): Flow velocities and rates in burrows of *Chironomus plumosus* (Diptera: Chironomidae) in lake sediments. Warnemünde, Germany, 11<sup>th</sup> Workshop on Physical Processes in Natural Waters (PPNW), 03 Sep. – 06 Sep. 2007, talk.
8. Lewandowski, Jörg & Nützmann, Gunnar (2007): Small-scale water- and nutrient-exchange between lowland River Spree (Germany) and adjacent groundwater. Perugia, Italy, 24<sup>th</sup> congress of the International Union of Geodesy and Geophysics (IUGG), 02 Jul. – 13 Jul. 2007, talk.
7. Lewandowski, Jörg; Roskosch, Andrea; Hupfer, Michael & Nützmann, Gunnar (2007): Hydraulic and biogeochemical impacts of chironomids on nutrients. Christchurch, New Zealand, 6<sup>th</sup> International Symposium on Ecohydraulics, 19 Feb. 2007, talk.
6. Hupfer, Michael & Lewandowski, Jörg (2005): Retention and early diagenesis of phosphorus in the sediment of Lake Arendsee. Bled, Slovenia, 10<sup>th</sup> International Symposium on the Interactions between Sediments and Water of the International Association for Sediment & Water Science (IASWS), 28 Sep. – 02 Sep. 2005, talk.
5. Lewandowski, Jörg & Hupfer, Michael (2004): The effects of macrozoobenthos on spatial pore water heterogeneity and phosphorus cycling in lakes. Lahti, Finland, International Society of Limnology-Congress (SIL), 08 Aug. – 14 Aug. 2004, talk.
4. Lewandowski, Jörg & Hupfer, Michael (2003): Impact of macrozoobenthos on two-dimensional small-scale heterogeneity of pore water phosphorus concentrations in lake sediments. Carmona, Spain, 4<sup>th</sup> International Symposium on Phosphate in Sediments, 09 Sep. – 12 Sep. 2003, talk.
3. Laskov, Christine; Lewandowski, Jörg; Küsel, Kirsten & Hupfer, Michael (2003): Influence of submersed macrophytes on iron cycling in littoral sediment of eutrophic lakes. Monte Verita, Switzerland, Biogeochemical processes involving iron minerals in natural waters, 16 Nov. – 21 Nov. 2003, poster.
2. Lewandowski, Jörg & Hupfer, Michael (2002): Two-dimensional small-scale distribution of pore water phosphorus concentration in lake sediments. Banff, Canada, 9<sup>th</sup> International Symposium on the Interactions between Sediments and Water of the International Association for Sediment & Water Science (IASWS), 05 May – 10 May 2002, talk.
1. Schauer, Inke; Lewandowski, Jörg; Nürnberg, Gertrud & Hupfer, Michael (2001): A simple decision-support system for the choice of the most appropriate in-lake measure to influence the phosphorus retention of lake sediments. Madison, USA, North American Lake Management Society (NALMS), 21<sup>st</sup> annual international symposium, 07 Nov. – 09 Nov. 2001, talk.

## Talks and posters presented on national meetings

69. Meinikmann, Karin & Lewandowski, Jörg (2016): Groundwater, the main external source of P to Lake Arendsee. Delmenhorst, DFG Rundgespräch Submariner Grundwasseraustritt – ein unsichtbarer Hotspot des Globalen Wandels, 12 Jan. – 13 Jan. 2016, poster.
68. Lewandowski, Jörg; Meinikmann, Karin; Pöschke, Franziska & Nützmann, Gunnar (2016): Review: Lacustrine groundwater discharge (LGD) – the disregarded component

of lake nutrient budgets. Delmenhorst, DFG Rundgespräch Submariner Grundwasseraustritt – ein unsichtbarer Hotspot des Globalen Wandels, 12 Jan. – 13 Jan. 2016, poster.

67. Mehrtens, Anne; Jäger, Anna; Lewandowski, Jörg & Munz, Matthias (2015): Nutrient turnover along flow paths in the hyporheic interstitial of a lowland stream in North Germany (in German, Nährstoffumsatz entlang von Transportpfaden im hyporheischen Interstitial eines norddeutschen Tieflandbachs). Essen, DGL Jahrestagung, 21 Sep. – 25 Sep. 2015, poster.
66. Baranov, Viktor; Krause, Stefan; Lewandowski, Jörg & Romeijn, Paul (2015): Novel method to study effects of benthic insects on lake sediment respiration. Frankfurt am Main, Deutsche Gesellschaft für allgemeine und angewandte Entomologie, 02 Mar. – 05 Mar. 2015, poster.
65. Röper, Tania; Greskowiak, Janek; Pöschke, Franziska; Lewandowski, Jörg & Massmann, Gudrun (2014): Identifikation, Quantifizierung und Charakterisierung von submarinen Grundwasseraustritten auf der Insel Spiekeroog, Norddeutschland (Identification, quantification and characterization of submarine groundwater discharge at the island Spiekeroog, in German). Bayreuth, Germany, Tagung der Fachsektion Hydrogeologie der DGG, 28.05.2014 – 31.05.2014, talk.
64. Cécile Périllon, Franziska Pöschke, Jörg Lewandowski, Sabine Hilt (2014): Groundwater discharge affects periphyton – submerged macrophyte interactions in the littoral of an oligotrophic lake. DGL-Jahrestagung Magdeburg, 29. Sept. bis 3. Okt. 2014, Vortrag, Session S12 Aquatische Grenzzenen.
63. Jörg Lewandowski, Michael Hupfer, Gunnar Nützmann, Stefan Krause (2014): Bausteine für ein konzeptionelles Prozessverständnis aquatischer Grenzzenen (Components of a conceptual process understanding of aquatic interfaces, in German). DGL-Jahrestagung Magdeburg, 29. Sept. bis 3. Okt. 2014, Vortrag, Session S12 Aquatische Grenzzenen.
62. Lewandowski, Jörg; Meinikmann, Karin & Nützmann, Gunnar (2013): Grundwasser, die vernachlässigte Komponente in Nährstoffbilanzen von Seen (Groundwater, the disregarded component in nutrient budgets of lakes, in German). Arendsee, Germany, Lake restoration workshop, 18 Mar. – 22 Mar. 2013, talk.
61. Meinikmann, Karin; Lewandowski, Jörg; Nützmann, Gunnar & Hupfer, Michael (2013): Einfluss des Grundwassers auf die Wasser- und Nährstoffbilanz des Arendsees (Impact of groundwater on the water and nutrient budget of Lake Arendsee, in German). Arendsee, Germany, Lake restoration workshop, 18 Mar. – 22 Mar. 2013, talk.
60. Hupfer, Michael; Herzog, Christiane; Neumann, Catherin & Lewandowski, Jörg (2013): Phosphorkreislauf in einem See: Ermittlung von Poolgrößen und vertikalen Fluxen als Voraussetzung für die Optimierung von Maßnahmen zur Phosphor-Verminderung im Wasserkörper (P cycling in a lake: Determination of pools and vertical fluxes as prerequisite for the optimization of measures to reduce P in the water body, in German). Arendsee, Germany, Lake restoration workshop, 18 Mar. – 22 Mar. 2013, talk.
59. Lehr, Christian; Lewandowski, Jörg & Lischeid, Gunnar (2013): Auswirkungen eines veränderten Gewässerverlaufs auf Grundwasserdynamik (Impacts of an altered stream course on groundwater dynamics, in German). Bern, Tag der Hydrologie (Hydrology day), 4 Apr. – 6 Apr. 2013, poster.
58. Lewandowski, Jörg (2013): Real time Ecohydrology. Berlin, Workshop Real time Ecohydrology, 7 Mar. 2013, talk.
57. Nützmann, Gunnar; Pöschke, Franziska; Lewandowski, Jörg (2013): Wasserhaushalt des Stechlinsee-EZG – unter besonderer Berücksichtigung des Grundwassers (Hydrologic budget of the catchment of Lake Stechlin – with a focus on groundwater, in German). Neuglobsow, Germany, Atmospheric-terrestrial-aquatic coupling: Stechlin-Workshop, 12 Mar. – 13 Mar. 2013, talk.
56. Pöschke, Franziska; Lewandowski, Jörg; Nützmann, Gunnar (2013): Austauschprozesse zwischen Grund- und Seewasser am Stechlinsee (Groundwater-lake water exchange at

Lake Stechlin, in German). Neuglobsow, Germany, Atmospheric-terrestrial-aquatic coupling: Stechlin-Workshop, 12 Mar. – 13 Mar. 2013, talk.

55. Lewandowski, Jörg; Pöschke, Franziska; Meinikmann, Karin; Nützmänn, Gunnar (2013): Grundwasser – Die übersehene Komponente in Nährstoffbilanzen von Seen (Groundwater – the missed component in nutrient budgets of lakes, in German). Neuglobsow, Germany, Atmospheric-terrestrial-aquatic coupling: Stechlin-Workshop, 12 Mar. – 13 Mar. 2013, talk.
54. Lewandowski, Jörg; Pöschke, Franziska; Meinikmann, Karin; Ruhtz, Thomas; Engelhardt, Christof; Kirillin, Georgiy; Dämpfling, Hauke & Nützmänn, Gunnar (2013): Infrarot-Luftaufnahmen zur Lokalisierung von Grundwasserzustrom in Seen (Measurement of airborne thermal infrared radiation to localize lacustrine groundwater discharge, in German). Potsdam, Germany, Annual meeting of the German Limnological Society (DGL), 09.09. – 13.09.2013, talk.
53. Lehr, Christian; Lewandowski, Jörg & Lischeid, Gunnar (2013): Effects of a restored stream channel on groundwater dynamics. Leipzig, Germany, 3. Workshop of the German Hyporheic Network, 07.10.2013 – 09.10.2013, poster.
52. Slaby, Maria; Lewandowski, Jörg & Nützmänn, Gunnar (2013): 2D vertikal-ebene Modellierung der Grundwasser-See-Interaktion – Einfluss von Durchlässigkeit, Porosität und Anisotropie der Uferzone (2D vertical modelling of groundwater lake interactions – Impact of hydraulic conductivity, porosity and anisotropy of the near-shore zone, in German). Leipzig, Germany, 3. Workshop of the German Hyporheic Network, 07.10.2013 – 09.10.2013, talk.
51. Pöschke, Franziska; Lewandowski, Jörg; Nützmänn, Gunnar & Schirmer, Mario (2013): Lacustrine groundwater discharge (LGD): Lake Stechlin. Leipzig, Germany, 3. Workshop of the German Hyporheic Network, 07.10.2013 – 09.10.2013, poster.
50. Lewandowski, Jörg (2013): The heat-pulse sensor. Leipzig, Germany, 3. Workshop of the German Hyporheic Network, 07.10.2013 – 09.10.2013, practical presentation.
49. Lewandowski, Jörg; Meinikmann, Karin; Pöschke, Franziska & Nützmänn, Gunnar (2013): Vergleich ungleicher Grenzzonen: Die hyporheische Zone, die Übergangszone Grundwasser-See und die Übergangszone Grundwasser-Ozean (Comparison of unequal interfaces: the hyporheic zone, the groundwater-lake interface and the groundwater-ocean interface, in German). Leipzig, Germany, 3. Workshop of the German Hyporheic Network, 07.10.2013 – 09.10.2013, talk.
48. Lewandowski, Jörg; Meinikmann, Karin; Pöschke, Franziska & Nützmänn, Gunnar (2012): Grundwasser – eine oft übersehene Komponente in Nährstoffbilanzen von Seen (Groundwater – a disregarded component in nutrient budgets of lakes, in German). Koblenz, Germany, Annual meeting of the German Limnological Society (DGL), 24 Sep. – 28 Sep. 2012, talk.
47. Meinikmann, Karin; Lewandowski, Jörg; Nützmänn, Gunnar & Hupfer, Michael (2012): Quantifizierung von grundwasserbürtigem Phosphor als maßgeblicher Eutrophierungsfaktor in Seen (Quantification of groundwater-borne phosphorus as major eutrophication cause, in German). Koblenz, Germany, Annual meeting of the German Limnological Society (DGL), 24 Sep. – 28 Sep. 2012, talk.
46. Hupfer, Michael; Jordan, Sylvia; Lewandowski, Jörg; Herzog, Christiane & Kleeberg, Andreas (2012): Phosphor-Akkumulation und Sauerstoff-Verbrauch im Hypolimnion: Finden die Prozesse während oder nach der Sedimentation statt? (Phosphorus accumulation and oxygen consumption in the hypolimnion: Are the processes occurring during or after sedimentation?, in German). Koblenz, Germany, Annual meeting of the German Limnological Society (DGL), 24 Sep. – 28 Sep. 2012, talk.
45. Sacher, Andrea; Meinikmann, Karin; Graumnitz, Stephanie; Piekarski, Jens; Hupfer, Michael & Lewandowski Jörg (2012): Quantifizierung der Phosphoreinträge in den Arendsee aus oberirdischen Zuflüssen (Quantification of phosphorus import into Lake

- Arendsee by surface inflows, in German). Koblenz, Germany, Annual meeting of the German Limnological Society (DGL), 24 Sep. – 28 Sep. 2012, poster.
44. Brothers, Soren; Köhler, Jan; Hilt, Sabine; Attermeyer, Katrin; Casper, Peter; Grossart, Hans-Peter; Kaupenjohann, Martin; Lewandowski, Jörg; Mehner, Thomas; Meyer, Nils; Meyer, Steffi & Nützmann, Gunnar (2011): The effects of plant community structure on carbon cycling in shallow lakes: A TerraLac perspective. Freising, Germany, Annual meeting of the German Limnological Society (DGL), 12 Sep. – 15 Sep. 2011, talk.
  43. Hilt, Sabine; Attermeyer, Katrin; Brauns, Mario; Brothers, Soren; Casper, Peter; Grossart, Hans-Peter.; Köhler, Jan; Lewandowski, Jörg; Nützmann, Gunnar; Scharnweber, Kristin; Syväranta, Jari; & Mehner, Thomas (2011): Effekte terrestrischer Kohlenstoff-Einträge auf Flachseen. Erste Ergebnisse des TERRALAC-Experiments (Impacts of terrestrial carbon input on shallow lakes. First results of the TERRALAC experiment, in German). Freising, Germany, Annual meeting of the German Limnological Society (DGL), 12 Sep. – 15 Sep. 2011, talk.
  42. Lewandowski, Jörg; Cabezas, Alvaro & Nützmann, Gunnar (2010): Hydrologische und biogeochemische Prozesse in der Grenzzone zwischen Aquifer und Flachlandfluss Spree (Hydrological and biogeochemical processes at the interface of the lowland River Spree and the adjacent aquifer, in German). Tübingen, Germany, Conference of the Hydrogeology Section of the German Society for Geosciences (FH-DGG), 12 May – 16 May 2010, talk.
  41. Angermann, Lisa; Lewandowski, Jörg; Fleckenstein, Jan H.; Krause, Stefan & Nützmann, Gunnar (2010): Einblicke in die Hydrologie der hyporheischen Zone - *in situ* Messungen liefern Erkenntnisse über kleinräumige Fließmuster (Insights into the hydrology of the hyporheic zone. *In situ* measurements reveal the small-scale flow pattern, in German). Tübingen, Germany, Conference of the Hydrogeology Section of the German Society for Geosciences (FH-DGG), 12 May – 16 May 2010, talk.
  40. Jordan, Sylvia; Ebeling, Christian; Lewandowski, Jörg & Hupfer, Michael (2010): Langzeitexperiment zum Einfluss von Chironomiden-Larven auf die Phosphor-Festlegung im Sediment (Long-term experiment to study the impact of chironomid larvae on the P fixation in sediment, in German). Bayreuth, Germany, Annual meeting of the German Limnological Society (DGL), 27 Sep. – 01 Oct. 2010, poster.
  39. Meinikmann, Karin; Lewandowski, Jörg & Nützmann, Gunnar (2010): Grundwasser - Ein vernachlässigbarer Eintragspfad für den Nährstoffhaushalt von Seen (Groundwater - A disregardable input path in nutrient balances of lakes? In German)? Bayreuth, Germany, Annual meeting of the German Limnological Society (DGL), 27 Sep. – 01 Oct. 2010, talk.
  38. Rudnick, Sebastian; Nützmann, Gunnar; Fleckenstein, Jan H. & Lewandowski, Jörg (2010): Charakterisierung der Grundwasser-Oberflächenwasser Wechselwirkung zweier eutropher Flachseen in Brandenburg (Characterization of groundwater-surface water interactions of two shallow eutrophic lakes in Brandenburg, in German). Bayreuth, Germany, Annual meeting of the German Limnological Society (DGL), 27 Sep. – 01 Oct. 2010, talk.
  37. Lewandowski, Jörg; Pöschke, Franziska & Nützmann, Gunnar (2010): Kleinskalige biogeochemische Heterogenität in einem Auenaquifer (Small-scale biogeochemical heterogeneity in a floodplain aquifer, in German). Bayreuth, Germany, Annual meeting of the German Limnological Society (DGL), 27 Sep. – 01 Oct. 2010, talk.
  36. Lewandowski, Jörg (2010): Probenahmetechniken und Messmethoden für Hydrologie und Biogeochemie der hyporheischen Zone (Sampling techniques and measurement methods for hydrology and biogeochemistry in the hyporheic zone, in German). Berlin, Germany, 2<sup>nd</sup> Workshop Hyporheic Network, 22 Nov. – 24 Nov. 2010, talk.
  35. Angermann, Lisa; Lewandowski, Jörg; Nützmann, Gunnar & Fleckenstein, Jan H. (2010): Heat Pulse Sensor - Bestimmung kleinskaliger Fließrichtungen in 3D (Heat pulse sensor - 3 dimensional measurement of small-scale flow direction in the hyporheic zone, in German). Berlin, Germany, 2<sup>nd</sup> Workshop Hyporheic Network, 22 Nov. – 24 Nov. 2010, talk.

34. Lewandowski, Jörg; Pöschke, Franziska & Nützmann, Gunnar (2010): Kleinskalige biogeochemische Heterogenität in einem Auenaquifer (Small-scale biogeochemical heterogeneity in a floodplain aquifer, in German). Berlin, Germany, 2<sup>nd</sup> Workshop Hyporheic Network, 22 Nov. – 24 Nov. 2010, talk.
33. Lewandowski, Jörg & Nützmann, Gunnar (2009): Geochemische Umsatzprozesse in der hyporheischen Zone eines Flachlandflusses und im angrenzenden Auenaquifer (Geochemical turnover processes in the hyporheic zone of a lowland river and the adjacent aquifer, in German). Berlin, Germany, Initial Workshop Hyporheic Network, 14 Dec. – 15 Dec. 2009, talk.
32. Angermann, Lisa; Lewandowski, Jörg; Nützmann, Gunnar & Fleckenstein, Jan H. (2009): Kleinskalige Fließpfade im hyporheischen Interstitial (Small-scale flow paths in the hyporheic interstitial, in German). Berlin, Germany, Initial Workshop Hyporheic Network, 14 Dec. – 15 Dec. 2009, talk.
31. Hamann, Enrico; Greskowiak, Janek; Roskosch, Andrea; Jordan, Sylvia; Hupfer, Michael; Lewandowski, Jörg & Nützmann, G. (2009): Bilanzierung des durch Bioirrigation beeinflussten Phosphorumsatzes mit einem reaktiven Multikomponenten-Stofftransportmodell (Balance of phosphorus turnover under the impact of bioirrigation with a reactive multicomponent transport model, in German). Oldenburg, Germany, Annual meeting of the German Limnological Society (DGL), 28 Sep. – 02 Oct. 2009, talk.
30. Roskosch, Andrea; Dziallas, Claudia; Grossart, Hans-Peter; Hupfer, Michael & Lewandowski, Jörg (2009). Die Auswirkung von Bioirrigation auf mikrobielle Gemeinschaften und Prozesse in limnischen Sedimenten (Impacts of bioirrigation on the microbial community and processes in limnetic sediments, in German). Oldenburg, Germany, Annual meeting of the German Limnological Society (DGL), 28 Sep. – 02 Oct. 2009, talk.
29. Lewandowski, Jörg; Fleckenstein, Jan H.; Hoehn, Eduard; Kalbus, Edda; Nützmann, Gunnar; Radke, Michael; Saenger, Nicole & Schmidt, Christian (2009): Hyporheisches Netzwerk (Hyporheic network, in German). Oldenburg, Germany, Annual meeting of the German Limnological Society (DGL), 28 Sep. – 02 Oct. 2009, poster.
28. Angermann, Lisa; Fleckenstein, Jan H.; Lewandowski, Jörg & Nützmann, Gunnar (2009): Eine Methode zur Bestimmung kleinskaliger Fließrichtungen und Geschwindigkeiten im hyporheischen Interstitial (A method to determine small-scale flow direction and flow velocity in the hyporheic interstitial, in German). Oldenburg, Germany, Annual meeting of the German Limnological Society (DGL), 28 Sep. – 02 Oct. 2009, talk.
27. Schwoch, Claudia; Nützmann, Gunnar & Lewandowski, Jörg (2009): Geochemische Heterogenität im Grundwasserleiter einer Aue an der Grenzfläche zum Fluss (Geochemical heterogeneity in the aquifer of a floodplain at the interface to the river, in German). Oldenburg, Germany, Annual meeting of the German Limnological Society (DGL), 28 Sep. – 02 Oct. 2009, poster.
26. Lewandowski, Jörg & Hupfer, Michael (2008): Wirkt sich Meromixie positiv oder negativ auf die Trophie aus? Fallbeispiel Burgsee (Does meromixis have a positive or negative impact on lake trophy? Case study Lake Burgsee, in German). Konstanz, Germany, Annual meeting of the German Limnological Society (DGL), 22 Sep. – 26 Sep. 2008, talk.
25. Ackermann, Juliane; Nützmann, Gunnar & Lewandowski, Jörg (2008): Kleinskalige Variabilität der SRP-Konzentrationen im hyporheischen Interstitial des Flachlandflusses Spree (Small-scale variability of SRP concentrations in the hyporheic interstitial of the lowland River Spree, in German). Konstanz, Germany, Annual meeting of the German Limnological Society (DGL), 22 Sep. – 26 Sep. 2008, poster.
24. Seibt, Christian; Hamann, Enrico; Roskosch, Andrea; Nützmann, Gunnar & Lewandowski, Jörg (2008): Modellierung der von Chironomiden induzierten Austauschprozesse zwischen Sediment und Freiwasser (Modelling of chironomid-induced exchange across the sediment-water interface, in German). Konstanz, Germany, Annual meeting of the German Limnological Society (DGL), 22 Sep. – 26 Sep. 2008, poster.

23. Roskosch, Andrea; Jordan, Sylvia; Hette, Nicolas; Buchert, Ralph; Khalili, Arzhang; Morad, Mohammad Reza; Nützmann, Gunnar; Hupfer, Michael & Lewandowski, Jörg (2008): Die Wirkung von *Chironomus plumosus* (Diptera: Chironomidae) auf Transportprozesse in limnischen Sedimenten (The impact of *Chironomus plumosus* (Diptera: Chironomidae) on transport processes in limnetic sediments, in German). Konstanz, Germany, Annual meeting of the German Limnological Society (DGL), 22 Sep. – 26 Sep. 2008, talk.
22. Buchert, Ralph; Roskosch, Andrea; Wilke, Florian; Apostolova, Ivalya; Brenner, Winfried; Lewandowski, Jörg & Khalili, Arzhang (2008): Untersuchungen zum Einfluss von *Chironomus plumosus* auf die Hydrodynamik in Seesedimenten mittels PET/CT (Investigations of the impact of *Chironomus plumosus* on the hydrodynamic of lake sediments with PET/CT, in German). Leipzig, Germany, 46<sup>th</sup> annual meeting of the German Society of Nuclear Medicine, 23 Apr. – 26 Apr. 2008, poster.
21. Roskosch, Andrea; Hupfer, Michael; Nützmann, Gunnar & Lewandowski, Jörg (2007): Messung von Fließgeschwindigkeiten und Pumpraten in Wohnröhren von *Chironomus plumosus*. (Measurement of flow velocity and pumping rates in burrows of *Chironomus plumosus*, in German). Münster, Germany, Annual meeting of the German Limnological Society (DGL), 24 Sep. – 28 Sep. 2007, poster.
20. Nogeitzig, Alexander; Nützmann, Gunnar; Lewandowski, Jörg & Hupfer, Michael (2007): Reaktive Transport-Modellierung des Phosphor-Kreislaufs in Seesedimenten unter dem Einfluss von Bioirrigation (am Beispiel der benthisch lebenden Mückenlarve *Chironomus plumosus*) (Reactive transport modelling of the phosphorus cycle in lake sediments under the impact of bioirrigation. Case study with the benthic larvae *Chironomus plumosus*, in German). Münster, Germany, Annual meeting of the German Limnological Society (DGL), 24 Sep. – 28 Sep. 2007, poster.
19. Lewandowski, Jörg; Laskov, Christine & Hupfer, Michael (2006): Räumliche Verteilungsmuster der Porenwasserkonzentrationen in Sedimenten mit komplexen Verläufen der oxisch/anoxischen Grenzzone aufgrund der Besiedlung mit Makrophyten oder Makrozoobenthos (Spatial pattern of pore water nutrient concentrations in sediments with complex pattern of oxic/anoxic interfaces due to colonization with macrophytes and macrozoobenthos, in German). Dresden, Germany, Annual meeting of the German Limnological Society (DGL), 25 Sep. – 29 Sep. 2006, talk.
18. Laskov, Christine; Herzog, Christiane; Lewandowski, Jörg & Hupfer, Michael (2005): Miniaturisierte photometrische Methoden für die Porenwasseranalytik (Miniaturized photometric methods for pore water analysis, in German). Bad Mergentheim, Germany, 71<sup>st</sup> annual meeting of the Division Water Chemistry Society (WG) of the German Chemical Society (GDCh), 02 May – 04 May 2005, talk.
17. Lewandowski, Jörg & Hupfer, Michael (2004): Auswirkungen von Makrozoobenthos auf den Phosphatumsatz und -transport in limnischen Sedimenten (Effects of macrozoobenthos on phosphate-transport and -turnover in limnetic sediments, in German). Potsdam, Germany, Annual meeting of the German Limnological Society (DGL), 20 Sep. – 24 Sep. 2004, talk.
16. Hupfer, Michael; Herzog, Christiane & Lewandowski, Jörg (2004): Langzeituntersuchungen zur Diagenese und Retention von Phosphor im Arendsee (Long-term investigations of diagenesis and retention of phosphorus in Lake Arendsee, in German). Potsdam, Germany, Annual meeting of the German Limnological Society (DGL), 20 Sep. – 24 Sep. 2004, talk.
15. Warnecke, Carsten; Lewandowski, Jörg & Hupfer, Michael (2004): Tagesgänge von Phosphat und gelöstem Eisen an der Sedimentoberfläche von Litoralstandorten und in der Rhizosphäre submerser Makrophyten (Diurnal pattern of phosphate and dissolved iron at the sediment surface in the littoral and in the rhizosphere of submerse macrophytes, in German). Potsdam, Germany, Annual meeting of the German Limnological Society (DGL), 20 Sep. – 24 Sep. 2004, poster.



14. Lewandowski, Jörg; Hupfer, Michael & Ehwald, Rudolf (2003): Entwicklung von Mikrodialysesonden zur Erfassung von schnell verlaufenden stofflichen Änderungen in Grenz- und Übergangszonen (Development of microdialysis sampler to measure fast changes of pore water composition at the sediment-water interface, in German). Köln, Germany, Annual meeting of the German Limnological Society (DGL), 29 Sep. – 03 Oct. 2003, talk.
13. Lewandowski, Jörg; Schauser, Inke & Hupfer, Michael (2002): Untersuchungsprogramme im Vorfeld von Seenrestaurierungen (Investigation programs prior to lake restoration measures, in German). Braunschweig, Germany, Annual meeting of the German Limnological Society (DGL), 30 Sep. – 04 Oct. 2002, talk.
12. Schauser, Inke; Lewandowski, Jörg; Strahl, Gerald; Brüggemann, Rainer & Hupfer, Michael (2002): Entscheidungsunterstützungssystem für die Auswahl eines auf die Phosphor-Retention im Sediment wirkenden seeinternen Verfahrens (Decision support system for the selection of appropriate in-lake measures to influence the phosphorus retention in sediments, in German). Braunschweig, Germany, Annual meeting of the German Limnological Society (DGL), 30 Sep. – 04 Oct. 2002, poster.
11. Hupfer, Michael; Schauser, Inke & Lewandowski, Jörg (2002): Vorgänge im Sediment und ihre Bedeutung für den Erfolg seeinterner Verfahren. Erfahrungen und Schlussfolgerungen (Sediment processes and their importance for success of in-lake measures. Experiences and consequences, in German). Blossin, Germany, Workshop Lake Therapy, 18 Mar. – 20 Mar. 2002, talk.
10. Lewandowski, Jörg; Schauser, Inke & Hupfer, Michael (2002): Auswahl seeinterner Verfahren zur Beeinflussung der P-Retention von Seesedimenten: I. Untersuchungsmethoden (Selection of in-lake measures to influence the phosphorus retention in sediments: I. Investigation methods, in German). Blossin, Germany, Workshop Lake Therapy, 18 Mar. – 20 Mar. 2002, talk.
9. Schauser, Inke; Lewandowski, Jörg & Hupfer, Michael (2002): Auswahl seeinterner Verfahren zur Beeinflussung der P-Retention von Seesedimenten: II. Einfache Entscheidungshilfe (Selection of in-lake measures to influence the phosphorus retention in sediments: II. Simple decision support, in German). Blossin, Germany, Workshop Lake Therapy, 18 Mar. – 20 Mar. 2002, talk.
8. Lewandowski, Jörg; Schauser, Inke; Rüter, Kristina & Hupfer, Michael (2001): Räumliche Heterogenität der SRP-Porenwasserkonzentrationen in Sedimenten (Spatial heterogeneity of SRP concentrations of pore waters in sediments, in German). Kiel, Germany, Annual meeting of the German Limnological Society (DGL), 17 Sep. – 21 Sep. 2001, talk.
7. Schauser, Inke; Lewandowski, Jörg & Hupfer, Michael (2001): Einfaches Entscheidungssystem für die Auswahl des am besten geeigneten seeinternen Verfahrens zur Beeinflussung der P-Retention von Seesedimenten (Simple decision-support system for the choice of the most appropriate in-lake measure to influence the phosphorus retention of sediments, in German). Kiel, Germany, Annual meeting of the German Limnological Society (DGL), 17 Sep. – 21 Sep. 2001, talk.
6. Hupfer, Michael; Lewandowski, Jörg & Rönicke, Helmut (2000): Langzeitwirkung einer seeinterner Fällung mit Aluminiumsulfat auf den Phosphor-Haushalt eines Kiesbaggersees (Long-term effect of in-lake precipitation with aluminium sulfate on the phosphorus cycle of a flooded gravel pit, in German). Magdeburg, Germany, Annual meeting of the German Limnological Society (DGL), 18 Sep. – 22 Sep. 2000, talk.
5. Lewandowski, Jörg; Schauser, Inke & Hupfer, Michael (2000): Langzeitwirkung jahrzehntelang wiederholter seeinterner Fällungen mit Aluminiumsulfat auf den Phosphor-Haushalt eines durchflossenen polymiktischen Sees (Long-term effect of repeated in-lake precipitation with aluminium sulfate on the phosphorus cycle of a polymictic lake, in German). Magdeburg, Germany, Annual meeting of the German Limnological Society (DGL), 18 Sep. – 22 Sep. 2000, talk.

4. Lewandowski, Jörg; Schauser, Inke & Hupfer, Michael (2000): Langfristige Retentionswirkung einer Al-Fällung im Süßen See. Teil 1: Feld- und Laborversuche (Long-term retention of P-precipitation with aluminum in Lake Süßer See. Part I: Field and laboratory experiments, in German). Bad Herrenalb, Germany, 7<sup>th</sup> Early Diagenesis Workshop, 11 Sep. – 14 Sep. 2000, talk.
3. Schauser, Inke; Lewandowski, Jörg & Hupfer, Michael (2000): Langfristige Retentionswirkung einer Al-Fällung im Süßen See. Teil 2: Modellierung (Long-term retention of P-precipitation with aluminum in Lake Süßer See. Part II: Modelling, in German). Bad Herrenalb, Germany, 7<sup>th</sup> Early Diagenesis Workshop, 11 Sep. – 14 Sep. 2000, talk.
2. Schauser, Inke; Lewandowski, Jörg & Hupfer, Michael (1999): Veränderung der Phosphor Diagenese und Retention durch seeinterne Maßnahmen. Konzept eines BMBF-Projekts (Change of phosphorus diagenesis and retention by in-lake measures. Concept of a BMBF project, in German). Rostock, Germany, Annual meeting of the German Limnological Society (DGL), 27 Sep. – 01 Oct. 1999, poster.
1. Schauser, Inke; Lewandowski, Jörg & Hupfer, Michael (1999): Auswirkungen von Restaurierungsverfahren auf Phosphor-Umsatz- und Transportprozesse im Sediment. Konzept eines BMBF-Projekts (Effects of restoration techniques on phosphorus turnover and transport processes in sediment. Concept of a BMBF project, in German). Neuglobsow, Germany, 6<sup>th</sup> Early Diagenesis Workshop, 12 Apr. – 16 Apr. 1999, poster.

## Other talks

17. Lewandowski, Jörg (2015): O-18 und Deuterium als Tracer in der Ökohydrologie. HU Berlin, Habilitationsvortrag, 15. Jan. 2015, talk.
16. Lewandowski, Jörg (2012): Groundwater surface water interactions: Coupling of Hydrodynamic and Biogeochemical Processes. Groß Väter, Germany, Kick-off meeting International Graduate School Aqualink, 17 Sep. – 20 Sep. 2012, talk.
15. Lewandowski, Jörg; Hölker, Franz; Adrian, Rita; Brand, Dellwig, Olaf; Andreas; Grossart, Hans-Peter; Hupfer, Michael; Jürgens, Klaus; Lorke, Andreas; Meile, Christof; Mooij, Wolf M.; Nützmann, Gunnar; Stief, Peter & Vanni, Mike (2012): The underestimated ecological importance of benthic invertebrates in lake ecosystems: An interdisciplinary research agenda to erode a long-lasting paradigm in limnology (TUBE). Berlin, IGB Science Day, 08 Nov. 2012, talk.
14. Pöschke, Franziska; Sacher, Andrea & Lewandowski, Jörg (2012): Schwanenfutter in Alcatraz – Über das Arbeiten auf einem Hochsicherheitssee (Swan food in Alcatraz – Working on a high-security lake). Berlin, Food & Brain, 16 Oct. 2012, talk.
13. Pöschke, Franziska; Sacher, Andrea; Lewandowski, Jörg (2012): Lokalisierung von Grundwasserzutritten im Concordiasee bei Nachterstedt (Localization of groundwater exfiltration zones in Lake Concordia, Nachterstedt, in German). Lausitzer und Mitteldeutsche Braunkohleverwertungsgesellschaft (LMBV), Leipzig, Germany, Final project presentation, 16 Aug. 2012, talk.
12. Lewandowski, Jörg & Nützmann, Gunnar (2010): Gefährdet Salzwasseraufstieg Gewässerökosysteme und Wasserversorgung im Nordostdeutschen Tiefland? Untersuchungsergebnisse aus Freienbrink (Does ascent of saline waters endanger ecosystems and water supply in the north-eastern German lowlands? Results from the study site Freienbrink, in German). Berlin, Germany, IGB Department Ecohydrology C- colloquium, 01 Mar. 2010, talk.
11. Cabezas, Alvaro; Lewandowski, Jörg & Nützmann, Gunnar (2009): Nutrient turnover at the upper sediment layer of a reconnected oxbow lake: Hydrology versus substrate. Berlin, Germany, IGB, Workshop Investigations of the Müggelspree - results and future plans, 24 Nov. 2009, talk.

10. Lewandowski, Jörg & Nützmann, Gunnar (2009): Hydrological and biogeochemical processes in the floodplain's aquifer and in the hyporheic zone. Berlin, Germany, IGB, Workshop Investigation of the Müggelspree - results and future plans, 24 Nov. 2009, talk.
9. Lewandowski, Jörg; Nützmann, Gunnar & Hupfer, Michael (2009): Eintragspfad Grundwasser – Fallbeispiel Arendsee (Input path groundwater. Case study Lake Arendsee, in German). Magdeburg, Germany, Meeting of Helmholtz Centre for Environmental Research (UFZ), Department of Lake Research and IGB Cross Cutting Research Domain Aquatic Boundaries and Linkages, 09 Jun. 2009, talk.
8. Lewandowski, Jörg; Roskosch, Andrea; Hupfer, Michael & Nützmann, Gunnar (2009): Einfluss von Makrozoobenthos auf Stofftransport und P-Umsatz in Seesedimenten – Innovative Messmethoden (Impacts of macrozoobenthos on transport and P turnover in lake sediments. Innovative measurement methods, in German). Magdeburg, Germany, Meeting of Helmholtz Centre for Environmental Research (UFZ), Department of Lake Research and IGB Cross Cutting Research Domain Aquatic Boundaries and Linkages, 09 Jun. 2009, talk.
7. Lewandowski, Jörg; Kaboth, Uwe; Nützmann, Gunnar & Günther, Matthias (2009): Gefährdet Salzwasseraufstieg Gewässerökosysteme und Wasserversorgung im Nordostdeutschen Tiefland (Does ascent of saline waters endanger ecosystems and water supply in the north-eastern German lowlands? In German)? Hanover, Germany, Leibniz Institute for Applied Geophysics (LIAG), Workshop Research Drilling 2011, 06 May 2009, talk.
6. Lewandowski, Jörg (2009): Grenzzone Oberflächengewässer – Aquifer (Interface surface water-aquifer, in German). Berlin, Germany, IGB science day, 19 Jun. 2009, talk.
5. Lewandowski, Jörg (2005): Two-dimensional small-scale heterogeneity of pore water phosphorus concentrations in subhydic soils – causes and impacts. Stuttgart, Germany, University of Hohenheim, Institute for soil Science and Site Ecology, Soil Science Colloquium, 04 Jul. 2005, talk.
4. Lewandowski, Jörg (2005): Two-dimensional small-scale heterogeneity of pore water phosphorus concentrations in subhydic soils – causes and impacts. Stuttgart, Germany, University of Hohenheim, Institute for Plant nutrition and Soil Chemistry, Colloquium Progress in Plant Nutrition, 24 Jun. 2005, talk.
3. Lewandowski, Jörg (2005): Biologisch-chemische Wechselwirkungen zwischen Gewässersedimenten und Organismen (Biological-chemical interactions between freshwater sediments and organisms, in German). Lüneburg, Germany, University Lüneburg, Appointment lecture for the junior-professorship Ecological Chemistry, 21 Mar. 2005, talk.
2. Lewandowski, Jörg (2004): Schadstoffe in der Umwelt (Contaminants in the environment, in German). Giessen, Germany, Justus-Liebig University Giessen, Appointment lecture for the C2-professorship Resource-Management and Environmental Chemistry, 17 Aug. 2004, talk.
1. Lewandowski, Jörg; Schauser, Inke & Hupfer, Michael (2001): Räumliche Heterogenität von Sedimenten: Zweidimensionale kleinräumige Strukturen der SRP-Konzentrationen in Porenwässern limnischer Sedimente (Spatial heterogeneity of sediments: Two-dimensional small-scale structures of SRP concentrations in pore waters of limnetic sediments, in German). Berlin, Germany, IGB-Colloquium, 21 Jun. 2001, talk.

## Scientific reports

19. Meinikmann, Karin; Lewandowski, Jörg & HypoTRAIN team (2016): Hyporheic Zone Processes – A training network for enhancing the understanding of complex physical, chemical and biological process interactions. Draft Periodic Report, Deliverable D7.7, Marie Skłodowska-Curie Innovative Training Network “HypoTRAIN”, Grant Agreement No. 641939, 46 pp.

18. Meinikmann, Karin & Lewandowski, Jörg (2013): Grundwasseruntersuchungen im Einzugsgebiet des Arendsees zur Trendermittlung der Phosphorbelastung (Groundwater investigations in the catchment of Lake Arendsee to determine temporal developments of phosphorus contaminations, in German). *Report*, Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), State Agency for Flood Protection and Water Management Saxony Anhalt (LHW, orderer), 20 pp.
17. Lewandowski, Jörg; Hupfer, Michael; Meinikmann, Karin; Herzog, Christiane; Pöschke, Franziska; Sturm, Christine & Jordan, Sylvia (2012): Vorplanung zur Sanierung des Arendsee - Teilprojekt IV (Preinvestigations restoration of Lake Arendsee - Subproject IV: Systematic localization and quantification of external sources and measurements of load reduction). Final report, Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), State Agency for Flood Protection and Water Management Saxony Anhalt (LHW, orderer), 92 pp.
16. Sacher, Andrea; Pöschke, Franziska; Lewandowski, Jörg (2012): Lokalisierung von Grundwasserzutritten im Concordiasee bei Nachterstedt (Localization of groundwater exfiltration zones in Lake Concordia, Nachterstedt, in German). *Final report*, Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), Lausitz and Central-German Mining Administration Company (LMBV, orderer), 47 pp.
15. Lewandowski, Jörg; Hupfer, Michael; Meinikmann, Karin; Herzog, Christiane; Pöschke, Franziska; Sturm, Christine & Jordan, Sylvia (2011): Vorplanung zur Sanierung des Arendsee - Teilprojekt IV (Preinvestigations restoration of Lake Arendsee - Subproject IV: Systematic localization and quantification of external sources and measurements of load reduction). *Interim report*, Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), State Agency for Flood Protection and Water Management Saxony Anhalt (LHW, orderer), 49 pp.
14. Roskosch, Andrea; Hamann, Enrico; Jordan, Sylvia; Dziallas, Claudia; Hupfer, Michael; Nützmann, Gunnar & Lewandowski, Jörg (2011): Einflüsse von Makrozoobenthos auf Stofftransport und biogeochemische Prozesse in Seesedimenten (Impacts of macrozoobenthos on transport and biogeochemical turnover processes in lake sediments, in German). *Final Report*, German Research Foundation (DFG) projects LE 1356/3-1 and LE 1356/3-2, 14 pp.
13. Lewandowski, Jörg; Hupfer, Michael; Meinikmann, Karin; Herzog, Christiane; Jordan, Sylvia; Sturm, Christine; Piekarski, Jens; Pöschke, Franziska; Behr, Roman & Marburg, Silke (2011): Vorplanung zur Sanierung des Arendsee - Teilprojekt III (Preinvestigations restoration of Lake Arendsee - Subproject III: Systematic localization and quantification of external sources and measurements of load reduction). *Updated report*, Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), State Agency for Flood Protection and Water Management Saxony Anhalt (LHW, orderer), 105 pp.
12. Lewandowski, Jörg; Hupfer, Michael; Meinikmann, Karin; Herzog, Christiane; Jordan, Sylvia; Sturm, Christine; Piekarski, Jens; Pöschke, Franziska; Behr, Roman & Marburg, Silke (2010): Vorplanung zur Sanierung des Arendsee - Teilprojekt III (Preinvestigations restoration of Lake Arendsee - Subproject III: Systematic localization and quantification of external sources and measurements of load reduction). *Report*, Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), State Agency for Flood Protection and Water Management Saxony Anhalt (LHW, orderer), 102 pp.
11. Lewandowski, Jörg; Hupfer, Michael; Nützmann, Gunnar; Roskosch, Andrea; Hamann, Enrico; Jordan, Sylvia & Dziallas, Claudia (2009): Einflüsse von Makrozoobenthos auf Stofftransport und biogeochemische Prozesse in Seesedimenten (Impacts of macrozoobenthos on transport and biogeochemical turnover processes in lake sediments, in German). *Interim Report*, German Research Foundation (DFG) project LE 1356/3-1, 20 pp.
10. Lewandowski, Jörg; Hupfer, Michael; Warnecke, Carsten; Fechner, Randy; Laskov, Christine; Herzog, Christiane; Ehwald, Rudolf; Fechner, Heiko; Woehlecke, Holger; von Tümpling, Wolf & Mages, Margarete (2004): Entwicklung eines Mikrodialyse-

Freilandgerätes für Untersuchungen von schnell verlaufenden stofflichen Änderungen in Grenz- und Übergangszonen (Development of an *in situ* microdialysis device for investigation of fast changes of chemical composition at interfaces, in German). *Final report*, Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), German Federal Environment Foundation (DBU, orderer), Research project 17225, 92 pp.

9. Lewandowski, Jörg; Hupfer, Michael; Fechner, Randy; Ehwald, Rudolf & Fechner, Heiko (2004): Entwicklung eines Mikrodialyse-Freilandgerätes für Untersuchungen von schnell verlaufenden stofflichen Änderungen in Grenz- und Übergangszonen (Development of an *in situ* microdialysis device for investigation of fast changes of chemical composition at interfaces, in German). *Interim report*, Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), German Federal Environment Foundation (DBU, orderer), Research project 17225, 32 pp
8. Lewandowski, Jörg; Hupfer, Michael; Ehwald, Rudolf & Woehlecke, Holger (2003): Entwicklung eines Mikrodialyse-Freilandgerätes für Untersuchungen von schnell verlaufenden stofflichen Änderungen in Grenz- und Übergangszonen (Development of an *in situ* microdialysis device for investigation of fast changes of chemical composition at interfaces, in German). *Interim report*, Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), German Federal Environment Foundation (DBU, orderer), Research project 17225, 18 pp.
7. Lewandowski, Jörg; Hupfer, Michael & Herzog, Christiane (2003): Sedimentuntersuchungen Gehrensee. Abschätzung der Relevanz des Phosphor-Vorrates im Sediment für die interne P-Belastung (Sediment investigation of Lake Gehrensee. Evaluation of the relevance of the internal P pool in the sediment for the internal P load, in German). *Final report*, Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), Consulting company Wassmann (orderer), 19 pp.
6. Hupfer, Michael; Schauser, Inke; Lewandowski, Jörg; Herzog, Christiane & Dollan, Anja (2001): Steuerung der Phosphor-Retention in Sedimenten durch seeinterne Maßnahmen. Erarbeitung eines Konzeptes für den Einsatz von Restaurierungsverfahren (Control of phosphorus retention in lake sediments by in-lake measures. Development of a scientific decision support system. Interim report, in German). *Final report*, Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), German Federal Ministry of Education and Research (BMBF, orderer), project 02WT9822/4, 25 pp.
5. Rheinfurth, Ulrike; Hupfer, Michael; Lewandowski, Jörg & Herzog, Christiane (2000): Eutrophierungspotential der Sedimente beim Wiederanstau der Talsperre Bautzen (Eutrophication potential of the sediments of the reservoir Bautzen resulting from re-flooding, in German). *Final report*, Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), Saxon State Administration for Reservoir Management (orderer), 36 pp.
4. Lewandowski, Jörg; Schauser, Inke; Hupfer, Michael; Herzog, Christiane; Rheinfurth, Ulrike & Schulz, Miriam (2000): Steuerung der Phosphor-Retention in Sedimenten durch seeinterne Maßnahmen. Erarbeitung eines Konzeptes für den Einsatz von Restaurierungsverfahren (Control of phosphorus retention in lake sediments by in-lake measures. Development of a scientific decision support system. Interim report, in German). *Interim report*, Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB, contractor), German Federal Ministry of Education and Research (BMBF, orderer), project 02WT9822/4, 71 pp.
3. Hupfer, Michael; Lewandowski, Jörg; Schauser, Inke & Herzog, Christiane (1999): Phosphor-Mobilisierungspotential von Sedimenten des Auensees (Leipzig) (Phosphorus mobilization potential of sediments of Lake Auensee, Leipzig, Germany, in German). *Final report*, Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), Town Council Leipzig, Office for Environmental Conservation (orderer), 35 pp.

2. Hupfer, Michael; Schauser, Inke; Lewandowski, Jörg; Herzog, Christiane; Brüggemann, Rainer; Holzbecher, Ekkehard. & Pöthig, Rosemarie (1999): Steuerung der Phosphor-Retention in Sedimenten durch seeinterne Maßnahmen. Erarbeitung eines Konzeptes für den Einsatz von Restaurierungsverfahren: Zwischenbericht (Control of phosphorus retention in lake sediments by in-lake measures: Development of a scientific decision support system, in German). *Interim report*, Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), German Federal Ministry of Education and Research (BMBF, orderer), project 02WT9822/4, 81 pp.
1. Lewandowski, Jörg & Walther, Wolfgang (1998): Abschätzung der Emissionen aus Altablagerungen beim Grundwasserwiederanstieg infolge der Flutung von Tagebauen im Raum Hoyerswerda / Weißwasser anhand von Untersuchungen zur Schadstofffreisetzung und Bewertung des Transportverhaltens (Assessment of emissions from abandoned waste disposal sites resulting from the flooding with groundwater of open-cast brown-coal mines in the Hoyerswerda/Weißwasser region (Germany) based on studies of contaminant mobilization and evaluation of the mobility, in German). *Final report*, Institute of Groundwater Management (IGW), Technical University Dresden (contractor), Saxon State Ministry of the Environment and State Development (SMUL) & Saxon State Office for Environment and Geology (orderer), project 13-8802.3522/35, 125 pp.

## Organisation of workshops and special sessions

27. Jörg Lewandowski (2016): European Hyporheic Forum. Berlin, Convenor, 50 participants, 13 Jun. 2016.
26. Lewandowski, Jörg; Krause, Stefan; Fleckenstein, Jan H. & Boano, Fulvio (2016): GW-SW interactions: biogeochemical and ecologic processes. Vienna, Convenor session HS 10.11, EGU General Assembly, 150 participants, 17 Apr. – 22 Apr. 2016.
25. Lewandowski, Jörg; Meinikmann, Karin & ITN HypoTRAIN (2016): European Hyporheic Forum. Berlin, Workshop organization, 50 participants, 13 Jun. 2016.
24. Jörg Lewandowski: Urban areas / water supply and treatment - innovative solutions. Berlin, Session chair, 17th IWA International Conference on Diffuse Pollution and Eutrophication, 30 participants, 13 Sep. – 18 Sep. 2015.
23. Boano, Fulvio; Stellato, Luisa; Fleckenstein, Jan; Lewandowski, Jörg; Krause, Stefan; Gilfedder, Benjamin; Rau, Gabriel; Hofmann, Harald & Cartwright, Ian: Groundwater-Surface water interactions: concepts, methods and biogeochemical and ecologic implications. Vienna, Co-convenor session HS 10.11, 80 participants, EGU General Assembly, 12 Apr. – 17 Apr. 2015.
22. Geris, Josie; Smettem, Keith; Krause, Stefan; Lewandowski, Jörg & Vico, Giulia: New developments in understanding ecohydrological systems and their interfaces. Vienna, Co-convenor session HS 10.9, 50 participants, EGU General Assembly, 12 Apr. – 17 Apr. 2015.
21. Hofmann, Harald; Fleckenstein, Jan; Cartwright, Ian; Boano, Fulvio; Stellato, Luisa; Krause, Stefan; Gilfedder, Benjamin; Lewandowski, Jörg; Cuthbert, Mark & Rau, Gabriel: Groundwater-Surface water interactions: concepts, methods and biogeochemical and ecologic implications. Vienna, Co-convenor session HS 2.3.9, EGU General Assembly, 200 participants, 27 Apr. – 02 May 2014.
20. Lewandowski, Jörg & Hupfer, Michael (2014): Aquatische Grenzzonen (Aquatic interfaces, in German). Magdeburg, Convenor of Special Session S12, Annual meeting of the German Limnological Society (DGL-Jahrestagung), 80 participants, 29. Sept. – 03. Oktober 2014.
19. Brand, Andreas; Lewandowski, Jörg; Nützmann, Gunnar & Meile, Christof (2013): Geochemical consequences of advection in aquatic sediments. New Orleans, Co-

convener of Special Session SS48, ASLO Aquatic Sciences Meeting, 80 participants, 17 Feb. – 22 Feb. 2013.

18. Lewandowski, Jörg & Nützmann, Gunnar (2013): Workshop Real time Ecohydrology. IGB, Berlin, 10 participants, 7 Mar. 2013.
17. Müller, Eva Nora & Lewandowski, Jörg (2013): AK Ökohydrologie der Deutschen Hydrologischen Gesellschaft. IGB, Berlin, 10 participants, 25 Feb. 2013.
16. Hupfer, Michael & Lewandowski, Jörg (2013): Lake restoration workshop (Workshop Seentherapie, in German). Arendsee, Convenor, 95 participants, 18 Mar. – 22 Mar. 2013.
15. Boano, Fulvio; Krause, Stefan; Fleckenstein, Jan H.; Cuthbert, Mark O. & Lewandowski, Jörg (2013): Interactions between surface water, groundwater, and the hyporheic zone. Vienna, Co-convenor session HS 10.7 and PSD 10.7, EGU General Assembly, 100 participants, 13 Apr. – 17 Apr. 2013.
14. Lewandowski, Jörg & Tockner, Klement (2013): Real-time Ecology. Koblenz, Germany, Session convenor, 6th International Conference on Water Resources and Environment Research (ICWRER), 35 participants, 3 Jun. – 7 Jun. 2013.
13. Cudennec, Christophe; Kravchishina, Marina; Lewandowski, Jörg & Stålnacke, Per (2013): Knowledge for the future, Session HP2: Land-ocean interaction - Hydrodynamics and biogeochemistry. Gothenburg, Session co-convenor, IAHS & IAPSO & IASPEI, 25 participants, 22 Jul. – 26 Jul. 2013.
12. Lewandowski, Jörg & Nützmann, Gunnar (2013): Session S18: Real-time Limnologie und Ökohydrologie (Real-time limnology and ecohydrology, in German). Potsdam, Session convenor, Annual conference of the German Society for Limnology (DGL), 60 participants, 9 Sep. – 13 Sep. 2013.
11. Schmidt, Christian; Fleckenstein, Jan H.; Lewandowski, Jörg; Radke, Michael; Krause, Stefan: 3. Workshop hyporheisches Netzwerk. Leipzig, Co-convenor, 35 participants, 7 Oct. – 9 Oct. 2013.
10. Lewandowski, Jörg (2012): Seen - Prozesse, Modelle, Theorien (Lakes – processes, models, theory, in German). Koblenz, Session convenor, Annual conference of the German Society for Limnology (DGL), 80 participants, 24 Sep. – 28 Sep. 2012.
9. Krause, Stefan; Fleckenstein, Jan H.; Boano, Fulvio; Cuthbert, Mark O. & Lewandowski, Jörg (2012): Interactions between surface water, groundwater, and the hyporheic zone. Vienna, Co-convenor session HS 10.3 and PSD 16.9, EGU General Assembly, 150 participants, 22 Apr. – 27 Apr. 2012.
8. Lewandowski, Jörg (2011): Conceptual and modelling studies of integrated groundwater, surface water, and ecological systems, Session H01S5: Sensitivity analysis and uncertainty evaluation. Melbourne, Session co-convenor, IUGG, 80 participants, 06 Jul. 2011.
7. Lewandowski, Jörg; Krause, Stefan; Boano, Fulvio; Fleckenstein, Jan H. & Cuthbert, Mark O. (2011): Interactions between surface water, groundwater, and the hyporheic zone. Vienna, Convenor session HS 10.3, EGU General Assembly, 200 participants, 03 Apr. – 08 Apr. 2011.
6. Lewandowski, Jörg; Nützmann, Gunnar; Fleckenstein, Jan H.; Hoehn, Eduard; Saenger, Nicole; Michael Radke & Christian Schmidt (2010): 2. Workshop Hyporheisches Netzwerk (2<sup>nd</sup> workshop of the Hyporheic Network, in German). Berlin, Workshop convenor, 40 participants, 22 Nov. – 24 Nov. 2010.
5. Hahn, Hans-Jürgen & Lewandowski, Jörg (2010): Grundwasser und hyporheisches Interstitial (Groundwater and hyporheic interstitial, in German). Bayreuth, Session convenor, Annual conference of the German Society for Limnology (DGL), 60 participants, 27 Sep. – 01 Oct. 2010.
4. Radke, Michael; Lewandowski, Jörg; Griebler, Christian; Börnick, Hilmar; Putschew, Anke; Kalbus, Edda; Schmidt, Christian; Worch, Eckhard; Grischek, Thomas; Jekel, Martin; Ternes, Thomas; Röske, Kerstin; Nützmann, Gunnar (2009): DFG round table meeting

InterHyp: Interactions between physical, chemical and microbiological processes and their impacts on the fate of organic contaminants in the hyporheic zone. Nürnberg, Co-convenor DFG round table meeting, 30 participants, 28 Aug. – 29 Aug. 2008.

3. Lewandowski, Jörg; Nützmann, Gunnar, Fleckenstein, Jan; Hoehn, Eduard; Saenger, Nicole; Michael Radke & Christian Schmidt (2009): Auftaktworkshop Hyporheisches Netzwerk (Initial workshop Hyporheic Network, in German). Berlin, Workshop convenor, 40 participants, 14 Dec. – 15 Dec. 2009.
2. Radke, Michael; Lewandowski, Jörg; Griebler, Christian; Börnick, Hilmar; Putschew, Anke; Kalbus, Edda; Schmidt, Christian; Worch, Eckhard; Grischek, Thomas; Jekel, Martin; Ternes, Thomas; Röske, Kerstin; Nützmann, Gunnar (2008): DFG round table meeting InterHyp: Interactions between physical, chemical and microbiological processes and their impacts on the fate of organic contaminants in the hyporheic zone. Leipzig, Co-convenor DFG round table meeting, 40 participants, 24 Mar. – 25 Mar. 2008.
1. Hupfer, Michael; Lewandowski, Jörg; Schauser, Inke & Herzog, Christiane (2002): Workshop Seentherapie (Workshop lake therapy, in German). Blossin, Workshop co-convenor, 80 participants, 18 Mar. – 20 Mar. 2002.

## Editorships

Krause, Stefan; Fleckenstein, Jan H.; Boano, Fulvio; Cuthbert, Mark O. & Lewandowski, Jörg (2014): New modelling approaches and novel experimental technologies for improved understanding of process dynamics at aquifer-surface water interfaces. Special section in *Water Resources Research* **50**.

Cudennec, Christophe; Kravchishina, Marina; Lewandowski, Jörg; Rosbjerg, Dan & Woodworth, Philip L. (2014): Complex interfaces under change: Sea – river – groundwater – lake: Proceedings of symposia HP2 and HP3 held during the IAHS-IAPSO-IASPEI Assembly, Gothenburg, Sweden. Oxfordshire, IAHS Publ. 365.

Lewandowski, Jörg & Hupfer, Michael (2013): Lake Restoration (Seentherapie, in German). Sonderheft in *Korrespondenz Wasserwirtschaft* **6**.

Lewandowski, Jörg; Nützmann, Gunnar & Tockner, Klement (2014): Frontiers in real time Ecohydrology. Special issue in *Fundamental and Applied Limnology* **184**.

Hupfer, Michael & Lewandowski, Jörg (2002): Lake restoration (Seentherapie, in German). *Wasser & Boden* **9**.