

Curriculum Vitae ***Christian Blodau***

Geboren am 30.03.1971 in Osnabrück

Ausbildung

Universität Bayreuth, Habilitation im Fach Biogeochemie, 4/2008

McGill University, Montréal, Kanada, 8/98-11/2001

Promotionsstudium im Institut für Geographie

Schwerpunkt: Biogeochemie und Kohlenstoffdynamik von Feuchtgebieten

Indiana University, Bloomington (Indiana), USA, 8/95-6/96

Schwerpunkte: Hydrologie, Umweltökonomie und -politik

Universität Bayreuth, Studium der Geoökologie, 10/92-11/97

Schwerpunkte: Hydrologie, Bodenkunde, Geo- und Umweltchemie

Universität Bonn, Studium der Chemie, 10/90-10/91



Beruflicher Werdegang

Universitätsprofessor für Hydrologie (W3), Universität Münster, ab 9/2011

Associate Professor (tenured) und Canada Research Chair in Environmental Geology and Biogeochemistry, University of Guelph, Kanada, 9/2009-8/2011

Externes Mitglied der Fakultät für Biologie, Chemie und Geowissenschaften der Universität Bayreuth, ab 9/2009

Adjunct Professor, McGill University, Department of Geography, ab 1/2009

Privatdozent und akademischer Oberrat auf Zeit, Universität Bayreuth, 7/2008 – 9/2009

Forschungsaufenthalt an der University of Colorado, Boulder, 4/2007- 12/2007

Forschungsaufenthalte am Centre for Global and Climate Change Research, McGill University, Montréal, Kanada, 2003-2007, 14 Monate

Wissenschaftlicher Assistent (C1) in Hydrologie und *Leiter der Limnologischen Forschungsstation*, Universität Bayreuth, 10/2001 – 7/2008

Wissenschaftlicher Angestellter im Bereich Bodenschutz, Umweltbundesamt, Berlin, 12/1997-12/1998

Wehrdienst, 10/1990-9/1991, militärgeographischer Dienst, Koblenz

Rufe auf akademische Positionen

Senior Lecturer in Environmental Geosciences (tenured), *Durham University* (GB), Department of Earth Sciences, 4/2008- nicht angenommen

Stipendien und Auszeichnungen

DFG Stipendium für einen Aufenthalt an der University of Colorado, Boulder, USA, 2007

Dean's Honours List, McGill University, 2/2002

Stipendium, Centre of Climate and Global Change Research, 9/99-9/2001

McGill-McConnell Major Fellowship, 9/99-9/2001

Government of Canada Award, 8/98-8/99

Preis der Stadt Bayreuth; für die Diplomarbeit, 11/97

Stipendium, Indiana University; Bloomington, 8/95-6/96

Stipendium, Friedrich-Ebert-Stiftung; Bonn, 10/93-11/97

Veröffentlichungen

Hervorgehoben: betreute Diplomanden, Doktoranden und Postdoktoranden

Eingereicht oder in Überarbeitung

Kopp, B., Fleckenstein, J.H., Roulet, T.R., Humphreys, E., Blodau, C. (2010) Impact of long-term drainage on groundwater flow patterns in the Mer Bleue peatland, Ontario, Canada. *Hydrologic Processes*.

Neumann, C., **Beer, J.** Blodau, C., Peiffer S., Fleckenstein, J. (2012) Spatial patterns of groundwater-lake exchange – implications for biogeochemical processes in an acid mine lake. *Hydrologic Processes*.

Risk, N. Wagner-Riddle, C., Furon, A. Warland, J., Blodau, C. "Comparison of Simultaneous Soil Profile N₂O Concentration and Surface N₂O Flux Measurements Overwinter and at Spring Thaw in an Agricultural Soil"

2012

(66) **Estop-Aragonés, C.;** Knorr, K.H., Blodau, C. (2012): Belowground in situ redox dynamics and methanogenesis recovery in a degraded fen during dry-wet cycles and flooding, *Biogeosciences- Discussion*.

(65) Kothawala, D.N.; Roehm, C. L.; Blodau, C. Moore, T.R. (2012): Selective adsorption of dissolved organic matter to mineral soils. *Geoderma* 189–190, 334–342

(64) Blodau, C.; **Deppe, M.** (2012) "Humic acid addition lowers methane release in peats of the Mer Bleue bog, Canada", *Soil Biology and Biochemistry*, 52: 96 - 98.

- (63) Broder, T.; Blodau, C.; Biester, H.; Knorr, K.-H. (2012): Peat decomposition records in three pristine ombrotrophic bogs in southern Patagonia, *Biogeosciences*, 9, 1479-1491, G02002 DOI: 10.5194/bg-9-1479-2012.
- (62) **Estop-Aragonés, C.**; Knorr, KH; Blodau, C. (2012): Controls on in situ oxygen and DIC dynamics in peats of a temperate fen. *Journal of Geophysical Research*, 117, DOI:10.1029/2011JG001888.
- (61) **Estop Aragonés, C.**; Blodau, C. (2011): Effects of experimental drying intensity and duration on respiration and methane production recovery in fen peat incubations, *Soil Biology and Biochemistry*, 47, 1-9.
- (60) Blodau, C., **Siems, M.**, (2012): Drainage-induced forest growth alters belowground carbon biogeochemistry in the Mer Bleue bog, Canada, *Biogeochemistry*, 107(1-3), 107-123.

2011

- (59) Blodau, C. **Siems, M., Beer, J.** (2011): Experimental burial inhibits methanogenesis and anaerobic decomposition in peats. *Environmental Science and Technology*, 45(23), 9984-9989.
- (58) Peiffer, S., Knorr, K.-H., Blodau, C (2011): The role of iron minerals for the biogeochemistry of acid pit lakes, in Acid Pit Lakes, Ed. Geller W.
- (57) Blodau C. Thermodynamic control on terminal electron transfer and methanogenesis. ACS Symposium Series, Vol. 1071, 10.1021/bk-2011-1071.ch004.
- (56) **Wendel, S.**, Moore, T.R., Bubier, J., Blodau, C. (2010): Experimental nitrogen, phosphorus, and potassium deposition decreases summer soil temperatures, water contents, and soil CO₂ concentrations in a northern bog, *Biogeosciences* 8, 585–595, doi:10.5194/bg-8-585-2011.
- (55) **Xing, Y.**, Bubier, J., Moore, T.R., Murphy, M., Basiliko, N., Wendel, S., Blodau, C. (2011): The fate of ¹⁵N-nitrate in a northern peatland impacted by long term experimental nitrogen, phosphorus and potassium fertilization, *Biogeochemistry*, 103 (1-3), DOI 10.1007/s10533-010-9463-0.

2010

- (54) **Minderlein, S.**, Blodau, C. (2010): Humic-rich peat extracts inhibit sulfate reduction, methanogenesis, and anaerobic respiration but not acetogenesis in peat soils of a temperate bog, *Soil Biology and Biochemistry*, 42(12), 2078-2086.
- (53) **Rempfer, J.**, Livingstone, D. M., Blodau, C., Forster, R., Niederhauser, P., Kipfer, R. (2010): The effect of the exceptionally mild European winter of 2006-2007 on temperature and oxygen profiles in lakes in Switzerland: a foretaste of the future? *Limnology and Oceanography*, 55, (5), 2170-2180.

- (52) Heimann, A., Jakobsen, R., Blodau, C. (2010): Energetic constraints on H₂-dependent terminal electron accepting processes in anoxic environments - a review of observations and model approaches, *Environmental Science and Technology* 44(1), 24-33.
- (51) **Deppe**, M., McKnight, D., Blodau, C. (2010): Effects of short-term drying and irrigation on electron flow in mesocosms of a northern bog and an alpine fen, *Environmental Science and Technology*, 44(1), 80-86.
- (50) **Deppe**, M., **Knorr**, K.H., McKnight, D., Blodau, C. (2010): Effects of short-term drying and irrigation on CO₂ and CH₄ production and emission from mesocosms of a northern bog and alpine fen, *Biogeochemistry*, 100 (1-3), 89-103, DOI 10.1007/s10533-010-9406-9.
- (49) Goldberg, S. D., **Knorr**, K.-H., Blodau, C., Lischeid, G., Gebauer, G. (2009): Impact of experimental drying and rewetting on N₂O and NO turnover and emissions from a temperate acidic fen, *Global Change Biology*, 16, 220-233 (2010).

2009

- (48) **Knorr**, K.H., Lischeid, G., Blodau, C. (2009): Dynamics of redox processes in a minerotrophic fen exposed to a water table manipulation, *Geoderma* 153, 379-392.
- (47) **Knorr**, K.-H. and Blodau, C. (2009): Impact of experimental drought and rewetting on redox transformations and methanogenesis in mesocosms of a northern fen soil. *Soil Biology and Biochemistry*, 41, 1187-1198.
- (46) Blodau, C. **Bauer**, M., **Regenspurg**, S. and Macalady, D. (2009): Electron accepting capacities of dissolved organic matter as determined by reaction with metallic zinc. *Chemical Geology*, 260, 186-195. 1
- (45) **Bauer**, M. and Blodau, C. (2009): Experimental colloid formation in aqueous solutions rich in dissolved organic matter, ferric iron, and As. *Geochimica et Cosmochimica Acta*, 73, 529-543.
- (44) **Rempfer**, J., Livingstone, D., Forster, Blodau, C. (2009): Response of hypolimnetic oxygen concentrations in deep Swiss prealpine lakes to interannual variations in winter climate, *Ver. Internat. Verein. Limnol.* 30(5): 717-721.

2008

- (43) Limpens, J., Berendse, F., Blodau C., Canadell, J.G., Freeman, C., Holden, J., Roulet, N.T., Rydin, H., Schaepman-Strub, G. (2008): Peatlands and the carbon cycle: from local processes to global implications - a synthesis, *Biogeosciences* 5, 1475-1491.
- (42) **Knorr***, K.H., Glaser, B., and Blodau, C. (2008). Impact of experimental drought on ¹³C isotopic composition of dissolved carbon and pathways of methanogenesis in a fen soil. *Biogeosciences* 5, 1457-1473.
- (41) **Goldhammer**, T., Einsiedl, F., and Blodau, C. (2008): In situ determination of sulfate turnover in peatlands during a water table fluctuation: application of downscaled push-pull tracer technique. *Journal of Plant Nutrition and Soil Science* 171, 740-750.
- (40) Blodau, C., Rees, R., Flessa H., Rodionov, A., Guggenberger, G., Knorr, K.-H., Shibistova, O., Zrazhevskaya, G., Mikheeva, N., Kasansky, O. A (2008): A snapshot of CO₂ and CH₄ evolution in a thermokarst pond near Igarka, northern Siberia. *Journal of Geophysical Research- Biogeosciences* 113, G03023, doi:10.1029/2007JG000652.

- (39) **Bauer, M., Fulda, B., Blodau, C.** (2008): Groundwater derived arsenic in high carbonate wetland soils: Sources, sinks, and mobility. *Science of the Total Environment* 401:109-120.
- (38) **Goldhammer, T., and Blodau, C.** (2008): Dessication and product accumulation constrain heterotrophic anaerobic respiration in peats of an ombrotrophic temperate bog. *Soil Biology and Biochemistry* 40: 2007-2015.
- (37) **Blodau, C., Fulda, B., Bauer, M. and Knorr, K.-H.** (2008): Arsenic speciation and turnover in intact organic soils during experimental drought and rewetting. *Geochimica et Cosmochimica Acta* 72, 3991-4007.
- (36) **Flessa, H., Rodionov, A., Guggenberger G., Fuchs, H., Magdon, P., Shibistova, O., Zrazhevskaya, G., Mikheyava, N., Kasansky, O.A., and Blodau, C.** (2008): Landscape controls of CH₄ fluxes in a catchment of the forest tundra ecotone in northern Siberia. *Global Change Biology* 14(8): 2040-2056.
- (35) **Knorr, K.H., Osterwoud, M., and Blodau, C.** (2008). Experimental drought changes rates of soil respiration and methanogenesis but not carbon exchange in fen soils. *Soil Biology and Biochemistry* 40: 1781-1791.
- (34) **Fahrner, S., Radke, M., Karger, D., and Blodau, C.** (2008): Organic matter mineralisation in the hypolimnion of a eutrophic maar lake. *Aquatic Sciences* 70(3): 225-237.
- (33) **Beer, J., Lee, K., Whiticar, M., and Blodau, C.** (2008): Geochemical controls on organic matter decomposition in a northern peatland. *Limnology and Oceanography* 53(4): 1393-1407.

2007

- (32) **Basiliko, N., Blodau, C., Roehm, C. L., Bengtson, P., and Moore, T. R.** (2007): Regulation of decomposition and methane dynamics across natural, commercially-mined, and restored northern peatlands. *Ecosystems* 10: 1148-1165.
- (31) **Heitmann, T., Goldhammer, T., Beer, J., Blodau, C.** (2007): Electron transfer processes of dissolved organic matter and their potential significance for anaerobic respiration in a northern bog, *Global Change Biology* 13: 1771-1785.
- (30) **Knorr, K.H., and Blodau, C.** (2007): Chemical controls on schwertmannite transformation. *Applied Geochemistry* 22: 2006-2015.
- (29) **Blodau, C., Roulet, N. T., Heitmann, T., Stewart, H., Beer, J., Lafleur, P., Moore T. R.** (2007): Below-ground carbon turnover in a temperate ombrotrophic bog. *Global Biogeochemical Cycles* 21: GB1021, doi:10.1029/2005GB002659.
- (28) **Blodau, C., Mayer, B. Peiffer, S. Moore, T.R.** (2007): Support for an anaerobic sulfur cycle in two Canadian peatland soils. *Journal of Geophysical Research* 112: G02004, doi:10.1029/2006JG000364.
- (27) **Heimann A., Blodau C., Postma D., Larsen F., Viet P.H., Nhan P.Q., Jessen S., Duc M.T., Hue N.T.M., Jakobsen R.** (2007): Hydrogen thresholds and steady state concentrations associated with microbial arsenate respiration, *Environmental Science and Technology* 41: 2311-2317.
- (26) **Beer, J., Blodau, C.** (2007): Transport and thermodynamics constrain belowground carbon turnover in a northern peatland, *Geochimica et Cosmochimica Acta* 71: 2989-3002.

- (25) **Bauer, M., Heitmann, T., Macalady, D. and Blodau, C. (2007):** Electron transfer capacities and kinetics of peat dissolved organic matter. *Environmental Science and Technology* 41: 139-145.

2006

- (24) Blodau, C., Gatzek C. (2006): Chemical controls on iron reduction in schwertmannite rich sediments. *Chemical Geology* 235: 366-376.
- (23) Blodau, C. (2006): Acidity generation and consumption in acidic mine lakes and their watersheds: A review. *Science of the Total Environment* 369: 307-332.
- (22) Blodau C. and **Knorr, K.H. (2006):** Experimental inflow of groundwater induces a biogeochemical regime shift in iron rich and acidic sediments. *Journal of Geophysical Research* 111: G0202610.1029/2006JG000165
- (21) **Heitmann, T. and Blodau, C. (2006):** Oxidation and incorporation hydrogen sulfide by dissolved organic matter. *Chemical Geology* 235: 366-376.
- (20) Blodau, C., Basiliko, N., Mayer, B., and Moore, T.R. (2006): The fate of experimentally deposited nitrogen in mesocosms from two Canadian peatlands. *Science of the Total Environment* 364: 215-228
- (19) **Knorr, K.H. and Blodau, C. (2006):** Altered groundwater inflow remobilizes acidity from iron rich and acidic sediments. *Environmental Science and Technology* 40, 2944-2950.
- (18) **Bauer, M. and Blodau, C. (2006):** Mobilization of arsenic by dissolved organic matter from iron oxides, soils and sediments. *Science of the Total Environment* 354:179-190.

2005

- (17) Blodau, C. (2005): Groundwater inflow triggers changes in acidity fluxes in an iron rich and acidic lake. *Acta Hydrochimica et Hydrobiologica* 33(2): 104-117.
- (16) **Dreyer, A., Radke, M., Turunen, J. and Blodau, C. (2005):** Long-term change of PAH deposition to peatlands of eastern Canada. *Environmental Science and Technology* 39 (11): 3918-3924.
- (15) **Dreyer, A., Blodau, C., Turunen, J. and Radke, M. (2005):** Spatial distribution of PAH deposition in peatlands across eastern Canada. *Atmospheric Environment* 39 (20), 3725-3733.

2004

- (14) Moore, T.R, Blodau C., Turunen, J., Roulet, N.T. and Richard, P. (2004): Patterns of nitrogen and sulfur accumulation in ombrotrophic bogs, eastern Canada. *Global Change Biology* 11, 356-367
- (13) Blodau, C. (2004): Evidence for a hydrologically controlled iron cycle in acidic and iron rich sediments. *Aquatic Sciences* 66: 1-13
- (12) Blodau, C., Basiliko, N. and Moore, T.R. (2004): Carbon turnover in peatland mesocosms exposed to different water table levels. *Biogeochemistry* 67: 331-351

2003

- (11) Blodau, C. and Peiffer, S. (2003): Deposition of organic matter and schwertmannite controls neutralization rates in sediments of acidic mine lakes. In Schulz, H.D. und Haderer, A. (Eds) *Geochemical Processes in soil and groundwater. Measurement-Modelling-Upscaling*. Wiley VCH, Weinheim.
- (10) Blodau, C. and Peiffer, S. (2003): Thermodynamics and organic matter: Constraints on neutralization processes in sediments of highly acidic waters. *Applied Geochemistry* 18: 25-36
- (9) Blodau, C. and Moore, T.R. (2003): Micro-scale CO₂ and CH₄ dynamics in a peat soil during a water fluctuation and sulfate pulse. *Soil Biology and Biochemistry* 35: 535-547
- (8) Blodau, C. and Moore, T.R. (2003): Experimental response of peatland carbon dynamics to a water table fluctuation. *Aquatic Sciences* 65: 47-62
- (7) Blodau, C., Heise, S. and Litz, N. (2003): Simple soil properties as predictors of PAH concentrations in soil water. *Wasser und Boden* 55: 33-37

2002

- (6) Blodau, C. (2002): Carbon cycling in peatlands: A review of processes and controls. *Environmental Reviews* 10: 111-134
- (5) Blodau, C., Roehm, C.L. and Moore, T.R. (2002): Iron, sulfur, and dissolved carbon dynamics in a northern peatland. *Archiv für Hydrobiologie* 154: 561-583
- (4) Blodau, C. and Peiffer S. (2002): Deposition und Transformation des Eisenminerals Schwertmannit unterdrückt die interne Neutralisation in Restseen des Braunkohletagebaus. Aktuelle Reihe BTU Cottbus, Gewässerreport Nr. 7:81-87
- (3) Blodau, C. and Moore, T.R. (2002): Macroporosity affects water movement and pore water sampling in peatland microcosms. *Soil Science* 167: 98-109

1998-2000

- (2) Blodau, C., Peine, A., Hoffmann, S. and Peiffer, S. (2000): Organic matter diagenesis in acidic mine lakes. *Acta Hydrochimica et Hydrobiologica* 28: 123-135
- (1) Blodau, C., Hoffmann, S., Peine, A. and Peiffer, S. (1998): Iron and sulphate reduction in the sediments of acid mine lake 116 (Brandenburg, Germany): Rates and geochemical evaluation. *Water Air Soil Pollution* 108, 249-270

Eingeworbene Drittmittel

University of Guelph

- CAN\$ 175,000; Discovery Grant "Geochemical and hydrological controls on carbon sequestration and methane production in aquatic systems", National Science and Engineering Research Council (NSERC), 2010-2015

- CAN\$ 150,000; Ontario Early Researcher Award "Geochemical controls on C sequestration and methane production in aquatic systems" Ontario Ministry for Research and Innovation, 2010-2014
- CAN\$ 450,000; Infrastructure Grant "Integrated Biogeochemical and Environmental Geology laboratory", Canada Foundation for Innovation/Ontario Ministry for Research and Innovation, 2010-2011
- CAN\$ 500,000; Canada Research Chair (tier 2), NSRC, 2009-2014

Universität Bayreuth

- € 280.000; PEATBOG: Pollution, Precipitation and Temperature Impacts on Peatland Biodiversity and Biogeochemistry, European Union Joint Call ERA-net BiodivERsA, subproject: Biogeochemistry (PI C. Blodau)
- € 179.000; "Soil dynamics under extreme meteorological boundary conditions- subproject: Response of belowground carbon, sulphur, and iron cycling in fen soils", Dr. Christian Blodau, DFG, BL 563/7-3, 2008-2011
- € 6000; „Auswirkung von Stickstoffdeposition auf den Kohlenstoffkreislauf nördlicher Moore"; Dr. Christian Blodau, Prof. Dr. Tim Moore, McGill University, Kanada; DLR/Int. Büro BMBF CAN 06/A04; 2008
- € 125.800; Binding and mobility of arsenic in peat soils"; Prof. Dr. Egbert Matzner, Dr. Christian Blodau, DFG, Ma-1089/14/1; 2007-2010
- €119.200; Bündelantrag "The impact of hydrogeological boundary conditions on biogeochemical processes in lake sediments.- Subproject: Biogeochemistry/Geochemistry; Dr. Christian Blodau, Prof. Dr. Stefan Peiffer, DFG, BL 563/15-1, 2007 – 2010
- € 230.150; Application of the peat archive as tool in environmental chemistry (APATEC); Dr. Michael Radke, Dr. Christian Blodau, DFG, RA /6-1, 2007 – 2010
- € 115.000; Transformations and translocations of nitrogen in northern peatlands under experimentally elevated nitrogen deposition, Dr. Christian Blodau, Dr. Jan Fleckenstein, DFG, BL563/14-1, 2007 – 2008
- € 40.000; Humboldt-Stipendium, Dr. Yangping Xing "Transformations and translocation of nitrogen in northern peatlands under increased experimental N loading", 2007 – 2008
- € 4.000; Auswirkung von Klimaänderungen auf den Kohlenstoffkreislauf nördlicher Moore; Dr. Christian Blodau, Prof. Dr. Tim Moore, McGill University, Kanada; DLR/Int. Büro BMBF CAN 06/A04; 2006
- € 171.000; Redoxdynamik des Kohlenstoff, Schwefels und Eisens in einem Niedermoor, Teilprojekt der Forschergruppe FOR562: Bodendynamik; Dr. Christian Blodau; DFG BL 563/7-2, 2005 – 2008
- € 37.300; Der Einfluss von natürlicher organischer Substanz und Eisenoxiden auf den Redoxzustand und die Komplexbildung von Arsen im aquatischen System; Dr. Christian Blodau; DFG BL 563/2-2, 2006 – 2007

- € 80.000; Der Einfluss von natürlicher organischer Substanz und Eisenoxiden auf den Redoxzustand und die Komplexierung von Arsen im aquatischen System; Dr. Christian Blodau; DFG BL 563/2-2, 2004 – 2006
- € 45.000; Einfluss von NOM auf den Redoxzustand und die Komplexierung von Arsen in natürlichen aquatischen Systemen- Felduntersuchungen; Dr. Simona Regenspurg, Dr. Christian Blodau, Prof. Dr. Donald Macalady, Colorado School of Mines, USA; DFG Re 1679/1-1, 2003 – 2004.
- € 24.000; Folgen eines veränderten Klimas auf die Kohlenstofffreisetzung in Mooren; Dr. Christian Blodau, Prof. Dr. Tim Moore, McGill University, Kanada; DLR/Int. Büro BMBF CAN 02/17; 2002 – 2005
- € 24.000; Forschungsstipendium "Coupled redox dynamics of natural organic matter and sulphur in peat soils during short-term water table fluctuations and its impact on CH₄ emissions", für einen Aufenthalt an der University of Colorado, USA, DFG, BL 563/13-1 2007.

Reisestipendien

DFG BL 563/16-1	Vortragsreise, Ottawa, 2007
DFG BL 563/10-1	ASLO Aquatic Sciences Meeting 2005, Salt Lake City
DFG BL 563/5-1	AGU Fall Meeting 2003, San Francisco
DFG BL 563/4-1	ASLO Aquatic Sciences Meeting 2003, Salt Lake City
DFG BL 563/3-1	AGU Fall Meeting 2002, San Francisco
DAAD	zweimonatiges Stipendium für Stephan Clemens, Guelph (2010)
DAAD	dreimonatiges Stipendium für Benjamin Kopp, Ottawa (2008)
DAAD	dreimonatiges Stipendium für Stefanie Minderlein, Ottawa (2008)
DAAD	dreimonatiges Stipendium für Martin Reichert, Ottawa (2008)
DAAD	dreimonatiges Stipendium für Sybille Wendel, Montreal (2007)
DAAD	dreimonatiges Stipendium für Klaus-Holger Knorr, Boulder, Colorado (2007)
DAAD	dreimonatiges Stipendium für Markus Bauer, Golden, Colorado (2005)
DAAD	zweimonatiges Stipendium für Julia Beer, Montreal (2005)
DAAD	dreimonatiges Stipendium für Tobias Goldhammer, Montreal (2004)
DAAD	dreimonatiges Stipendium für Annekatrin Dreyer, Montreal (2003)

Gutachtertätigkeit für internationale Fachzeitschriften

Naturwissenschaften allgemein

Nature
Nature communications

Aquatische Wissenschaften und Hydrologie

Aquatic Sciences
Journal of Contaminant Hydrology
Hydrologic Processes
Hydrobiologia
Limnology and Oceanography
Water Research

Biogeochemie und Ökologie

Biogeochemistry
Biogeosciences
Environmental Modelling
Environmental Reviews
European Journal of Soil Science
Ecosystems
Journal of Plant Nutrition and Soil Science
Geobiology
Global Biogeochemical Cycles
Global Change Biology
Plant and Soil
Restoration Ecology
Soil Biology and Biochemistry

Geo- und Umweltchemie

Applied Geochemistry
Environmental Engineering
Environmental Science and Technology
Journal of Environmental Quality
Geochimica et Cosmochimica Acta
Mine Water and The Environment
Nature Geoscience
Organic Geochemistry
Science of the Total Environment
Toxicological and Environmental Chemistry
Water Air and Soil Pollution

Gutachtertätigkeit für Forschungsorganisationen

Deutsche Forschungsgemeinschaft (DFG) ab 2007
German-Israeli Foundation for Scientific Research and Development ab 2008
National Science Foundation (NSF) ab 2008
Natural Environment Research Council (NERC, UK) ab 2008
National Science and Engineering Research Council (NSERC, Canada, 2009)
Schweizer Nationalfonds (SNF) ab 2008

Wissenschaftliche Kooperationen (2002-2012)

Biogeochemie von Feuchtgebieten und Global Change

Prof. Dr. Bernhard Mayer, University of Calgary, Canada
Prof. Dr. Tim Moore, McGill University, Montreal, Canada
Prof. Dr. Nigel Roulet, McGill University, Montreal, Canada
Prof. Dr. Peter Lafleur, Trent University, Peterborough, Canada
Prof. Dr. Michael Whitticar, University of Victoria, Canada
Prof. Dr. Heiner Flessa, Universität Göttingen
Prof. Dr. Georg Guggenberger, Universität Hannover
Dr. Jukka Turunen, Finnish Geological Survey

Umwelt- und Geochemie aquatischer Systeme

Prof. Dr. Kirsten Küsel, Universität Jena
Prof. Dr. Stefan Peiffer, Universität Bayreuth
Dr. Jan Fleckenstein, Universität Bayreuth
Prof. Dr. Danielle Fortin, University of Ottawa, Canada

Hydrogeochemie

Prof. Dr. Rasmus Jakobsen, Danish Technical University, Kopenhagen, Dänemark
Prof. Dr. Florian Einsiedl, Danish Technical University, Kopenhagen, Dänemark

Moore als Archive für Schadstoffe

Prof. Dr. Harald Biester, Institute of Environmental Geochemistry, Heidelberg, Germany
Prof. Dr. Brian Branfireun, University of Toronto, Canada
Dr. Michael Radke, Universität Bayreuth

Redoxprozesse von Huminstoffen

Prof. Dr. Diane McKnight, University of Colorado, Boulder, USA
Prof. Dr. Donald Macalady, Colorado School of Mines, USA
Prof. Dr. Karsten Kalbitz, Universität Amsterdam
Prof. Dr. Andreas Kappler, Universität Tübingen

Lehr- und Vortragsveranstaltungen

Lehrtätigkeit

Universität Münster

V2 Einführung in die Hydrologie
Ü2 Hydrologisches Praktikum
V2 Aquatische Systeme

- V/Ü2 Wasser- und Bodenchemie
- SL4 Hydrologisch-Limnologisches Projektseminar
- SP4 Studienprojekte zur Hydrologie und Stoffkreisläufen in Mooren und Seen

Universität Guelph

- EVS 3150 Aquatic Systems; 3. Jahr Bachelor in Environmental Science
- LRS 6900 Graduate Seminar, Training in Grundlagen der Wissenschaft und proposal writing

Universität Bayreuth:

- VÜ3 Analyse von Ökosystemen am Beispiel des Kohlenstoffkreislaufs, Teil aquatische Systeme
- GP4 Physikalisches Geländepraktikum für Geographen, Teil Wasser
- GP7 Geoökologisches Geländepraktikum: Standortkundliche Methoden, Teil Hydrologie
- V2 Hydrologie natürlicher Systeme (Biogeochemie aquatischer Systeme)
- Ü2 Hydrologie natürlicher Systeme (Biogeochemie aquatischer Systeme)
- Ü2 Analyse aquatischer Systeme
- S1 Einführung in die aquatische Chemie
- Ü2 Übungen zur aquatischen Chemie
- V2 Hydrogeochemie und Grenzflächenprozesse
- Ü2 Hydrogeochemie und Grenzflächenprozesse
- SL4 Projektseminar zur Hydrologie natürlicher Systeme (Limnologie)

Betreute Diplom-, Master- und Doktorarbeiten, sowie Postdoktoranden

Master- und Diplomarbeiten

- Frederik Bock: "Steuerung des Abbaus organischer Substanz durch Wasser und Gastransport- ein experimenteller Ansatz" (Abgabe 2013)
- Lieselotte Welchering: "Impact of long-term wetting on carbon fluxes in Luther Bog, Ontario." (Abgabe 2012)
- Tanja Broder: "Carbon biogeochemistry of three bogs in Patagonia, Chile" (Abgabe 2011)
- Stephan Clemens: "A model-based analysis of long-term iron, sulfur and acidity dynamics in acid mine lakes." (Abgabe: 2010)
- Benjamin Kopp: "Influence of groundwater flow on methane and DOC biogeochemistry across a drainage ditch in a Canadian peatland" (2009)

- Stefanie Minderlein: "Coupling of sulfate reduction to redox processes of DOM in a methane poor and a methane rich site in a Canadian peatland" (2009)
- Martin Reichert: „The impact of long-term nitrogen fertilization on root activity as analyzed with ¹³C-CO₂ application" (2009)
- Melanie Siems: "Impact of a century of drainage on decomposition processes in a Canadian peatland" (2009)
- Marianna Deppe: "Redox dynamics of dissolved organic matter in the unsaturated zone of northern and alpine peat soils" (2009)
- Sybille Wendel: "Impact of long-term experimental nitrogen fertilization on soil physical processes and respiration in the unsaturated zone of a northern peatland" (2009)
- Johannes Rempfer: "Long-term analysis of deep-water oxygen concentration in four Swiss lakes of different trophic status" (2007)
- Michaela Raber: "Mobilization and immobilization of As in aquifer material by DOM loading: column experiments" (2007)
- Jan Schwieker: "Reconstruction of the deposition of copper, zinc, cadmium, and arsenic in peatlands of Eastern Canada (2006)
- Marieke Osterwoud (MSc. University of Wageningen, Netherlands): "The influence of drought and rewetting on carbon fluxes in a fen soil." (2006)
- Beate Fulda: "Arsenmobilität in kohlenstoffreichen Feuchtgebietsböden". (2006)
- Sven Fahrner: "Anaerobic electron flow in the hypolimnion and sediments of eutrophic Meerfelder Maar, Eifel". (2006)
- Julia Beer: "Controls on carbon mineralization and methanogenesis in deep peat deposits of an ombrotrophic temperate peatland, Canada" (2006)
- Tobias Goldhammer: "Carbon and sulphur turnover in a Canadian bog". (2006)
- Tobias Heitmann: "The role of organic electron acceptors in anaerobic C mineralization in a northern peatland." (2005)
- Annekatriin Dreyer: "Reconstruction of the deposition of polycyclic aromatic hydrocarbons (PAH) in peatlands of Eastern Canada". (2004)
- Klaus-Holger Knorr: "The impact of ground water inflow on acidity fluxes in sediments of acidic mine lakes: column experiments and chemical equilibrium modelling". (2004)
- Markus Bauer: "Mobilisierung von Arsen von Eisenoxiden und Aquifermaterial durch natürliches organisches Material". (2003)
- Mario Weihprachtitzky: „Hydrogeochemische Charakterisierung eines Niedermooses im Fichtelgebirge". (2003)

Doktorarbeiten

- Katarzyna Kasic: "Effects of long-term nitrogen deposition on the coupled carbon and nitrogen cycling in European peatland" (2012)
- Yuanqiao Wu: "Interactions between atmospheric nitrogen deposition, biodiversity and carbon and nitrogen cycling: a modeling analysis" (2012)
- Cristian Estop Aragonés: "Effects of drought and flooding on the coupled dynamics of carbon, iron and sulfur in a northern fen" (2011)

Julia Beer: "The influence of groundwater-surface water interactions on biogeochemical processes in sediments of a highly acidic mine lake" (2011)

Beate Huhle: "Arsenic binding in organic soils" (Zweitbetreuer, 2011)

Sabine Thüns: "Determination of atmospheric lifetimes and transport parameters of organic and inorganic contaminants using the peat archive as tool" (Zweitbetreuer, 2011)

Markus Bauer: "The influence of dissolved organic matter on the redox state and the complexation of arsenic in aquatic systems" (2008)

Klaus-Holger Knorr: "Soil dynamics under extreme meteorological boundary conditions- sub-project: Redox dynamics of carbon, sulphur and iron in a peatland" (2008)

Teilnahme in "Ph.D.-committees"

Axel Heimann, Department of Geosciences, Danish Technical University, Kopenhagen.

Dolly Kothawala, Department of Geography, McGill University, Montreal.

Postdoktoranden

Dr. Yangping Xing, Humboldt Stipendiatin (2007-2008)

Dr. Dimitri D. Dimitrov (2008-2010)

Preise und Auszeichnungen für betreute Diplomanden und Doktoranden

Klaus-Holger Knorr, Preis der Stadt Bayreuth für die Dissertation, Bernd-Rendel-Preis, Deutsche Forschungsgemeinschaft (DFG)

Markus Bauer, Preis der Stadt Bayreuth für die Dissertation; Dissertationspreis der deutschen wasserchemischen Gesellschaft

Tobias Goldhammer, Bernd-Rendel-Preis, Deutsche Forschungsgemeinschaft (DFG)

Eingeladene Vorträge

Seminarreihe Geospectives des Instituts für Geoinformatik, Universität Münster, 2012: "Northern peatlands: Potential weapons of mass decomposition?".

Universität Bochum, Seminarreihe Bodenkunde 2012, „Electron transfer processes of dissolved organic matter and their significance for carbon biogeochemistry in peatlands“.

ETH Zürich, 2011, Seminarreihe Environmental Chemistry: "Redox transformations of organic matter and methanogenesis in peat soils“.

University of Waterloo, Ecohydrology Seminar Series: "Connecting biogeochemical and ecohydrological controls on elemental cycling- methane dynamics in peatlands as an example."

Society of Wetlands Scientists 2011: "Redox state and impact of dissolved organic matter on methane and sulfur dynamics in the Mer Bleue bog peat soils, Ontario, Canada“.

- Canadian Geophysical Union meeting, Ottawa, 2010: "Connecting ecohydrological and biogeochemical controls on elemental cycling in soils and sediments- methane dynamics as example".
- Trilateral Research Seminar 'The climate regulating role of forest-bog ecosystems: landscape-ecological and social aspects' Hamburg, 2010: "The Impact of drainage on ecohydrological and biogeochemical processes in the Mer Bleue peatland, Canada".
- Goldschmidt-Conference, Davos, 2009, *Keynote speaker*: "The dire consequences of being away from the interface: what we can learn about limits of organic matter decomposition from peatbogs."
- Max-Planck-Institut für terrestrische Mikrobiologie, Marburg, 2008, Titel: "Chemical and hydrological controls on the decomposition of organic matter in peatlands"
- Czech Geological Survey, Prag, 2008, Titel "The impact of redox processes on CH₄ emissions from wetland soils- concepts, cases and controls"
- Durham University, Durham, Großbritannien, 2008: "Biogeochemical processes in soils, sediments and aquifers- what can we learn from thermodynamics?"
- Department of Biogeochemistry and pollutant dynamics, ETH Zürich, 2008, Titel "Redox processes of dissolved organic matter"
- Department of Earth Sciences, University of Ottawa, Canada, 2008, Titel "Biogeochemical processes in soils, sediments, and aquifers: What can we learn from thermodynamics?"
- International Symposium on Electron Transfer Processes in Biogeochemical Gradients, Helmholtz-Centre for Environmental Research – UFZ, Leipzig 2008, *Keynote speaker*: "Thermodynamic analyses of electron transfer processes in anoxic environments: What can we learn?"
- International PEATNET Workshop: Why is there peat?, Villanova University, USA, 2008, Titel "Geochemical constraints on decomposition in peat deposits"
- 10th International Symposium on Wetland Biogeochemistry, Annapolis, USA, 2007, *Plenary speaker*, Titel: "Redox dynamics in wetlands soils: causes, concepts and cases"
- Max-Planck-Institut für Biogeochemie, Jena, 2007, Titel "Where has all the methane gone? Why carbon cycling in peatlands does not meet expectations"
- Eawag, ETH, Dübendorf, Schweiz, 2007, title "Northern peatlands: A spectacular failure of the carbon cycle"
- International symposium on carbon cycling in wetlands, Wageningen, 2007: *Keynote speaker*, "The biogeochemistry of belowground carbon cycling in peatlands: the how, the why, and the why not".
- Dept. of Biology and Environmental Science, University of Sussex, UK, 2006, Titel: "Elemental cycling in aquatic systems: Concepts and Cases"
- Dept. of Geography, University of Toronto, 2005, Titel: "Elemental cycling in the subsurface: concepts, causes, and cases"
- Institut für Grundwassermikrobiologie, GSF, München, 2006, Titel: "C mineralization and methanogenesis in peat aquifers"
- Institut für Umweltgeochemie, Universität Heidelberg, 2005, Titel: "The impact of external and internal forcing on carbon cycling in northern peatlands"
- Dept. of Environmental Science, University of Toronto, 2005, Titel: "Regulation of biogeochemical processes in aquatic systems: concepts and cases"

Great Lakes Institute of Environmental Research, University of Windsor, 2005, Titel: "Redox processes- drivers of environmental fluxes in the environment"

Limnologisches Institut, Universität Konstanz, 2004, Titel: "Acidity generation and consumption in acidic mine lakes and their watersheds: Knowns and Unknowns."

Institut für Gewässerökologie und Binnenfischerei, Berlin, 2003, Titel: "Die biogeochemische Steuerung des Kohlenstoffkreislaufs in Feuchtgebieten"

Organisierte Symposia und Workshops

EGU General Assembly 2010, Wien: "Biogeochemistry of lakes, wetlands and ocean margins"

Carbon in Peatlands 2010, Prag: "The next generation of research"

AGU Fall Meeting 2008, San Francisco, Symposium zum Thema: "Impact of global change on carbon and nutrient cycling in wetlands"

Goldschmidt Conference, Köln, 2007, Symposium zum Thema: "Frontiers in the biogeochemistry of acid mine drainage and acidic mine lakes."

EGU General Assembly, Wien, 2007, Symposium zum Thema: "Electron transfer processes in soils, sediments, and aquifers: concepts and cases."

AGU Fall Meeting 2006, San Francisco, Symposium zum Thema: "Impact of Climate Variability and Extreme Weather on Ecosystem Structure and Function across Spatiotemporal Scales"

AGU Fall Meeting 2005, San Francisco, Symposium zum Thema: "Climate Change, Land Use, and Biogeochemistry of Boreal Ecosystems"

Beteiligung an der Selbstverwaltung der Universität

- Vorstand des Institutes für Landschaftsökologie, Universität Münster, ab 2011
- Vorsitzender des Gremiums für Arbeits- und Laborsicherheit der School of Environmental Sciences der University of Guelph, ab 2009
- Mitglied des Prüfungsausschusses im Studiengang Geoökologie(2004-2006)
- Mitglied in den Kommissionen zur Umstellung des Studiengangs Geoökologie auf Bachelor und Masterabschlüsse, sowie zur Einführung eines strukturierten Doktorandenprogramms an der Universität Bayreuth
- Sicherheits- und Strahlenschutzbeauftragter des Lehrstuhls für Hydrologie der Universität Bayreuth (2003-2009)
- Vertretung von Herrn Prof. Dr. Herrmann in Fachgruppensitzungen und einer Berufungskommission (2002-2003) an der Universität Bayreuth

Mitgliedschaft in Fachgesellschaften

Deutsche Gesellschaft für Limnologie

American Society of Limnology and Oceanography

American Geophysical Union

Geochemical Society

DIE UNIVERSITÄT BAYREUTH

erteilt

Herrn

Christian B l o d a u, Ph. D.

die Lehrbefugnis für das Fachgebiet

„Biogeochemie“

mit dem Recht zur Führung der Bezeichnung

Privatdozent

Bayreuth, den 13. Juni 2008

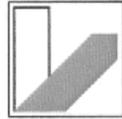
Der Präsident



A handwritten signature in black ink, appearing to read 'H. Ruppert'.

Professor Dr. Dr. h. c. Helmut Ruppert

Die Universität Bayreuth



verleiht durch die

Fakultät für Biologie, Chemie und Geowissenschaften

Herrn Christian Blodau, Ph.D.

geboren am 30. März 1971 in Osnabrück

die Lehrbefähigung für das Fachgebiet

Biogeochemie

nachdem er das Habilitationsverfahren zur förmlichen Feststellung der wissenschaftlichen und pädagogischen Eignung zum Professor erfolgreich abgeschlossen hat.

Das Thema der Habilitationsschrift lautet:

**Rates and regulation of electron transfer processes
in the biogeochemical cycles of mine lakes and wetlands**

Bayreuth, den 23. April 2008

Der Präsident



Der Dekan



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Christian Blodau

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DOCTOREM PHILOSOPHIAE

ATQUE EI OMNES HONORES IURA BENEFICIA QUAE AD ILLUM GRADUM PERTINEANT CONCESSISSE. QUOD AD

CONFIRMANDUM HAS LITTERAS SIGILLO UNIVERSITATIS CONSIGNANDAS ET NOMINA EORUM QUI RES

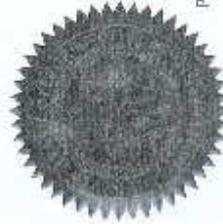
ACADEMICAS ADMINISTRANT SUBSCRIBENDA CURAVIMUS. DATAE DIE XIV MENSIS JUNII ANNI DOMINI MMII

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M. D. D.

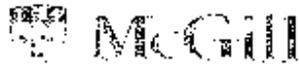
TABULARIUS



Samuel J. Delgado

PIAIBUS COLLEGII GUBERNATORIUM

RECTOR



Faculty of Graduate Studies and Research
1205 Avenue Jean Jacques
3600 Avenue St. Lawrence, 2nd Floor
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Thesis Section
Tel: (514) 398-3951 Fax: (514) 398-3951

February 6, 2002

Mr. Christian Blodau
BEUTHENER STR 5
BONN
GERMANY, D53117

Dear Mr. Blodau:

On February 6 2002, Senate formally granted you the degree of Doctor of Philosophy.

Your diploma will be awarded at the Spring Convocation, and further details concerning the Convocation ceremony will be sent to you from the Secretariat. Detailed Convocation information is also available on the web at www.mcgill.ca/secretariat under "Convocations". For any Convocation information, please contact the Secretariat at (514) 398-3951.

Due to your outstanding performance, you will be placed on the Dean's Honour List at convocation.

On behalf of the Faculty of Graduate Studies and Research congratulations and best wishes,

Martha Crago
Dean

UNIVERSITÄT BAYREUTH

Fakultät für Biologie, Chemie und Geowissenschaften

Zeugnis

Herr **Christian Blodau**
geboren am 30. März 1971 in Osnabrück
hat im Herbst 1997

die **Diplomhauptprüfung im Studiengang Geoökologie** mit der Gesamtnote

sehr gut (1,0) - mit Auszeichnung bestanden -

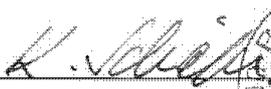
abgelegt. Die Leistungen wurden wie folgt bewertet:

Mündliche Prüfung	Bewertung	Prüfer
Hauptfach Hydrologie/Bodenkunde	sehr gut (1,0)	Prof. Matzner/PD Peiffer
Nebenfach Geologie	sehr gut (1,0)	Prof. Schäfer
Nebenfach Anorganische Chemie	sehr gut (1,0)	Prof. Morys
Nebenfach Geomorphologie	sehr gut (1,0)	PD Kleber
Diplomarbeit im Fach Hydrologie	sehr gut (1,0)	Prof. Herrmann PD Peiffer

Thema:

**Schwefelumsetzungen in Sedimenten saurer Restlochseen der ehemaligen Braunkohletagebaue
Grünwalde und Plessa (Lausitz)**

Bayreuth, den 31. Oktober 1997
Der Vorsitzende des Prüfungsausschusses


Prof. Dr. K. Schäfer



Die Prüfungsgesamtnote errechnet sich als Mittel der doppelt gewichteten Noten des Hauptfaches und der Diplomarbeit und der einfach gewichteten Noten der Nebenfächer. Für die Prüfungsgesamtnote gilt: sehr gut bis 1,5; gut bis 2,5; befriedigend bis 3,5; ausreichend bis 4,0
Bei einer Prüfungsgesamtnote bis 1,2 wird das Prädikat "mit Auszeichnung bestanden" vermerkt.

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RECORD DATE: 05-14-96
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PARENTS: GUNTER & SAVAH BLODAN

HIGH SCHOOL CODE:

CODE	DESCRIPTIVE TITLE	DEPT	COURSE	SEM	HRS	GR	CODE	DESCRIPTIVE TITLE	DEPT	COURSE	SEM	HRS	GR
	BLOOMINGTON SREA GRAD DIV												
	READINGS IN ENVIR SCIENCE	1ST	SEM 1995-96	3.0	A-								
	ENVIRONMENTAL ENGINEERING	SREA	SEM 1995-96	3.0	B+								
	PUBLIC MANAGEMENT ECONOMICS	SREA	SEM 1995-96	3.0	B+								
	PUBLIC MANAGEMENT	SREA	SEM 1995-96	3.0	B+								
	SEM HRS 12.0 PTS 41.1 GPA 3.43												
	BLOOMINGTON SREA GRAD DIV												
	APP OF GEOGRAPHIC INFO SYS	2ND	SEM 1995-96	3.0	A								
	ENVIRONMENTAL ECONOMICS & POLICY	SREA	SEM 1995-96	3.0	A-								
	GROUNDWATER FLOW MODELING	SREA	SEM 1995-96	3.0	A-								
	EMERGENCY POLICY & THE ENVIRONMENT	SREA	SEM 1995-96	3.0	A-								
	SEM HRS 9.0 PTS 35.1 GPA 3.90												
	GRADUATE GPA SUMMARY												
	I.U. GPA HRS 21.0												
	TRANSFER HRS 0.0												
	TOTAL I.U. HRS 21.0												
	GPAS 3.63												
	---ACADEMIC OBJECTIVE---												
	AS OF FIRST SUMMER 1996												
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UNIVERSITÄT BAYREUTH
Fakultät für Biologie, Chemie und Geowissenschaften

Zeugnis

Herr **Christian Blodau**
geboren am 30. März 1971 in Osnabrück
hat im Herbst 1994
die **Diplomvorprüfung Geoökologie** mit der Gesamtnote
sehr gut (1,4)

abgelegt.

Die mündlichen Prüfungen wurden wie folgt bewertet:

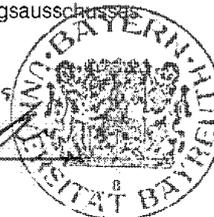
Hauptfach Geoökologie	Bewertung	Prüfer
Biogeographie	sehr gut (1,3)	Prof. Müller-Hohenstein
Bodenkunde	sehr gut (1,0)	Prof. Zech
Ökol. Chemie/Geochemie	sehr gut (1,3)	Prof. Frank
Geologie/Geomorphologie	sehr gut (1,0)	Prof. Schäfer
Hydrologie	sehr gut (1,3)	Dr. Durner
Meteorologie	gut (2,3)	Prof. Eiden
Fachnote Geoökologie	sehr gut (1,4)	
Nebenfach Anorganische Chemie	sehr gut (1,0)	Prof. Morys
Nebenfach Mathematik	gut (2,0)	Prof. Kerber

Bayreuth, den 07. November 1994

Der Vorsitzende des Diplomprüfungsausschusses



Prof. Dr. K. Schäfer



Die Prüfungsgesamtnote errechnet sich als Mittel der doppelt gewichteten Fachnote in Geoökologie und der jeweils einfach gewichteten Fachnote der Nebenfächer.

Für die Prüfungsgesamtnote gilt: bis 1,5: sehr gut; bis 2,5: gut; bis 3,5: befriedigend; bis 4,0: ausreichend

Bei einer Prüfungsgesamtnote bis 1,2 wird das Prädikat "mit Auszeichnung bestanden" vermerkt.