

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Bettina Eichler-Löbermann**

Title **apl. Prof. Dr. habil.**

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Nationality **German**

Date of birth **24.06.1968**

Gender **female**

Work experience

Dates **since January 2005 until now**

Occupation or position held **Associate professor (E 14)** at the department of Crop Science and Agronomy (temporary head of the chair from 2009 to 2011) at the Faculty of Agricultural and Environmental Sciences

Main activities and responsibilities **Lecturing on Crop husbandry, Agroecology, Organic farming, Agriculture in the Tropics, Renewable resources and Bioenergy, Responsibility for six modules**
Lead and participation of several research projects, administration of the chair, organization of foreign affairs of the University

Name and address of employer **University of Rostock, J. von Liebig-Weg 6, 18059 Rostock**

Dates **from April 2013 until April 2018**

Occupation or position held **Vice-President for Internationalisation, Gender and Diversity Management**

Name and address of employer **University of Rostock, Universitaetsplatz 1, 18055 Rostock**

Type of business or sector **Research and Education**

Dates **from February 1998 until December 2004**

Occupation or position held **Scientific lecturer (E 13)** at the department of Sustainable Crop Production at the Faculty of Agricultural and Environmental Sciences

Main activities and responsibilities **Lecturing on Crop husbandry, Research activities and project participation**

Name and address of employer **University of Rostock, J. von Liebig-Weg 6, 18059 Rostock**

Type of business or sector **Research and Education**

Dates **from March 2005 until September 2005**

Occupation or position held **Parental leave**

Dates	from July 1997 until December 2000
Occupation or position held	Agricultural advisor (as part time job from January 1998)
Main activities and responsibilities	Advising in the field of crop production, fertilizer application and pesticide use
Name and address of employer	LMS Landwirtschaftsberatung GmbH, D-18209 Bad Doberan, Neue Reihe 6
Type of business or sector	Agricultural advisory

Education and training

Dates	April 2004
Title of qualification awarded	doctor agriculturae habilitatus (Dr. agr. habil.)
Principal subjects/occupational skills covered	Habilitation procedure in Crop husbandry, Habilitation thesis: Phosphorus cycles in sustainable soil use systems
Name and type of organisation providing education and training	University of Rostock

Dates	September 1993 until April 1997
Title of qualification awarded	doctor agriculturae (Dr. agr.)
Principal subjects/occupational skills covered	Postgraduate studies in Crop husbandry, Phd thesis: Phosphorus uptake of catch crops and their contribution to utilize accumulated phosphorus reserves in soil under low-input conditions
Name and type of organisation providing education and training	University of Rostock

Dates	September 1988 until August 1993
Title of qualification awarded	Diplom-Agrar Ingenieur (M.Sc.)
Principal subjects/occupational skills covered	Crop production, agroecology, soil science, plant protection, plant nutrition, pasture and fodder plants, marketing, agroecology, informatics, meteorology, animal husbandry
Name and type of organisation providing education and training	University of Rostock

Additional information

- Head of the EU-Conexus project (European University Program) for the University of Rostock since 2022
- Authorized Representative for International Relations of the University of Rostock (2011-2013)
- Title "Visiting Professor" awarded from the University Bayamo (Cuba) in 2006
- Faculties Equal opportunities officer since 2022
- Member of the steering group of the Leibniz Science Campus: Phosphorus research
- Member of the Steering Group of the Department Maritime systems (Univ. Rostock)
- Member of the German Association for Water, Wastewater and Waste
- Member of the Expert Group of Baltic 21 until 2018
- Deputy Secretary General of CIEC until 2018
- Member of editorial boards of several journals
- Reviewer for the Leibniz Society and BMBF
- Author/co-author of about 300 papers (about 90 peer reviewed, Scopus h-index 24)
- Coordinator or partner in about 35 national and international projects
- Supervision of 14 doctoral theses
- Supervision of about 90 Master and Bachelor theses

Projects (since 2010)

Lead of the Projects/Sub projects (Title, duration, project number)

HEMUA - Higher Education Modernization to boost Uzbekistan Agricultural system and promote excellence and regional development. Erasmus+, 2025 – 2027, Lead University of Bologna, No 101179517

EU-Conexus. Smart Urban Coastal Sustainability. European Universities. Project lead for University of Rostock. Erasmus Mundus, 2022 - 2026, No. 101050597 — JMPMB

EU-CONEXUS Enables. HORIZON-CSA, 2023 – 2027, Lead applicant: Technical Univ. Bucharest, No. 101136822

Underutilized plants in agroecosystems – Transnational teaching and research network for regional development (UnderPlaNet). DAAD SDG-partnerships 2024-2027. In cooperation with Cuba, Ecuador, Cameroon, Ethiopia.

Optimization of legume-based production processes by integrating microbial products and plant based bioactive materials (BioactMOs_b). Sub-project: Soil Nutrient Cycles. BMBF, 2024 – 2026, in Cooperation with Cameroon.

Upgrading residual biomass by microbial functional enrichment – new approaches for the production of recycling fertilizers (MicroFunction). BMBF/DLR, 2022- 2024, No: 01DN23011

Reduction of the groundwater-relevant N and P surplus through combined application of microgranulate and microorganisms (MikroMais). Sub-project: Nutrient availability in the soil. BMEL/FNR, 2021 - 2024, No. FNR-2220NR059B

Innovative solutions to sustainable soil phosphorus management (InnoSoilPhos) Phase III – Subproject C Agronomic effectiveness of P resources: BMBF 2021 - 2024, No.031B1061A

Taraxagum II and III – Nutrient content of by-products and weed management in *Taraxacum kok-saghyz*, 2021, Continental, 2020 - 2021

RePhoR-MV: Regional P-Recycling from sewage sludge in Mecklenburg-Vorpommern: BMBF, Phase 1, Subproject Agronomy, 2019

P efficiency of forage legumes and their capacity to utilize P from recycling products: Leibniz Campus Phosphorus-Research, 2019 – 2022

DiveCropS - Diversifying cropping systems - Traditional knowledge and innovative approaches: DAAD/BMZ Partnerships to enhance biodiversity in developing countries. 2019 – 2022

InFertRes - Innovative fertilizers and resource efficiency in agriculture, in cooperation with institutions in Cuba. BMBF 2018 – 2021, CUB17WTZ-042

Taraxagum I – Nutrient content of *Taraxacum kok-saghyz* and fertilizer effect of by-products, Subproject Agronomy, 2019 - 2021, Continental

InnoSoilPhos - Innovative solutions to sustainable soil phosphorus management, Phase II– Subproject C Agronomic effectiveness of P resources: experimental determination of soil P fertility at the plot and field scale. BMBF 2018 - 2021, AZ 031B0509A

Biomass - Ash – Monitoring (BAM); Subproject: Agronomic evaluation, BMVEL, 2017 – 2020, No. FNR- 22003216

Optimization of the fertilizer effects of residues from biomass conversion – A contribution to the protection of resources in the Danube region – Phase I and Phase II. BMBF, 2014 - 2016, IWINDOR_06, No. 01DS16005

PhosWaM - Integrated phosphorus and water management for sustainable water resources management – Subproject 1.2 Effects of agronomic measures on P losses. BMBF 2016 - 2018

InnoSoilPhos - Innovative solutions to sustainable soil phosphorus management, Phase I– Subproject C Agronomic effectiveness of P resources: experimental determination of soil P fertility at the plot and field scale. BMBF 2015 - 2018, AZ 031A558C

Edunabio – Educational Network of Agrobiodiversity in Latin America. DAAD, Förderprogramm Qualitätsnetz Biodiversität, 2014 – 2017, No. 57060601

Microbial phosphorus mobilisation by plant growth promoting fungi in cropping systems. ppp – Project with Colombia (Procol), DAAD, 2013 – 2014, No. 56023192

Mixed cropping with cereals and legume crops as an opportunity to increase the water and phosphorus efficiency in plant production. BMVEL, 2012 - 2016, No. FNR-22030111

Phosphorus utilization from biogas residues after solid – liquid separation. BMVEL, 2012 - 2015, No. FNR-22400112

The role of phosphorus nutrition on the pathogenicity of *Mycosphaerella fijiensis*. DFG, 2011, in cooperation with IRI, Santa Clara, Cuba, DFG project EL678/7-1

Fertilizing effects of *Trichoderma* species. ppp – Project with Columbia (Procol), DAAD, 2011 – 2012, No. 50756636

Nutrient cycling in bioenergy systems. University of Rostock, 2009 – 2012, Bioenergy board Baltic Sea Bioenergy Promotion. Lead applicant Swedish Energy Agency, Task leader for 3.4) Sub-regional and municipal showcases, EU Interreg, BSR Programme, 2009-2012, No. 018

BAltic Forum for Innovative Technologies for Sustainable MANure Management. Lead applicant: Agrifood Research, Finland (MTT), EU Interreg, BSR Programme, 2011 – 2013, No. 063

Sustainable management of natural resources. Subject-related Partnerships with Institutions of Higher Education. In cooperation with Cuba and Nicaragua, DAAD, 2009-2012, No. 50020194

Contribution of selected plant growth promoting rhizobacteria to maize phosphorus nutrition as influenced by organic matter management. DFG, 2007 to 2010, DFG project Ei 678/4-1

Projects (2013 to 2018)

Lead in function of the Vice-Rector for Internationalisation, Gender and Diversity Management

Women Professors Programme II
BMBF, 2014 – 2018, No. 01FP13064F

Monitoring Programme "Karrierewege-Mentoring II"
ESF European Social Fund, 2016 – 2018, No. ESF/14-SM-A41-0005/15

Monitoring Programme "Karrierewege-Mentoring"
ESF European Social Fund, 2014 – 2015, No. ESF/IV-SM-C31-0002/14

Women Professors Programme I (receiving head in 2013)
BMBF, 2011 – 2015, No. 1FP09130B

Chance equality and diversity management (receiving head in 2013)
Land Mecklenburg-Vorpommern, 2012 – 2015, ZLV 19110048

Ten key publications

- Zicker, T.; von Tucher, S.; Kavka, M.; Eichler-Löbermann, B. (2018): Soil test phosphorus as affected by phosphorus budgets in two long-term field experiments in Germany. *Field Crops Res.* 218, 158 – 170, DOI: 10.1016/j.fcr.2018.01.008
- Worku Zerssa, G.; Feyssa, D.; Kim, D.-G.; Eichler-Löbermann, B. (2021): Challenges of smallholder farming in Ethiopia and opportunities by adopting climate smart agriculture: A review. *Agriculture* 11, 192. doi.org/10.3390/agriculture11030192
- Koch, M.; Kruse, J.; Eichler-Löbermann, B.; Zimmer, D.; Willbold, S.; Leinweber, P.; Siebers, N. (2018): Phosphorus stocks and speciation in soil profiles of a long-term fertilizer experiment: evidence from sequential fractionation, P K-edge XANES, and ³¹P-NMR spectroscopy. *Geoderma* 316, 116 – 126, DOI: 10.1016/j.geoderma.2017.12.003
- Nawara, S.; van Dael, T.; Merckx, R.; Amery, F.; Elsen, A.; Odeurs, W.; Vandendriessche, H.; McGrath, S.; Roisin, C.; Jouany, C.; Pellerin, S.; Denoroy, P.; Eichler-Löbermann, B.; Börjesson, G.; Goos, P.; Akkermans, W.; Smolders, E. (2017): Soil tests for available phosphorus revisited: a comparative study on European long-term experiments. *Europ. J. Soil Sci.* 68, 873 - 885,
- Vogel, T.; Nelles, M. Eichler-Löbermann, B. (2015): Phosphorus application with recycled products from municipal waste water to different crop species. *Ecol. Engineering* 83, 466 – 475
- Bachmann, S.; Gropp, M.; Eichler-Löbermann, B. (2014): Phosphorus availability and soil microbial activity in a 3 year field experiment amended with digested dairy slurry. *Biomass Bioenergy* 70, 429 – 439, DOI: 10.1016/j.biombioe.2014.08.004
- Requejo, M.; Eichler-Löbermann, B. (2014). Organic and inorganic phosphorus forms in soil as affected by long-term application of organic amendments. *Nutr. Cycl. Agroecosyst.* 100, 245 – 255
- Krey, T.; Vassilev, N.; Baum, C.; Eichler-Löbermann, B. (2013): Effects of long-term phosphorus application and plant growth promoting rhizobacteria on maize phosphorus nutrition under field conditions. *Europ. J. Soil Biol.* 55, 124 - 130
- Schiemenz, K.; Eichler-Löbermann, B. (2010): Biomass ashes and their phosphorus fertilizing effect on different crops. *Nutr. Cycl. Agroecos.* 87, 471-482
- Eichler-Löbermann, B.; Köhne, S.; Köppen, D. (2007): Effect of organic, inorganic and combined organic and inorganic P fertilization on plant P uptake and soil P pools. *J. Plant Nutr. Soil Sci.* 107, 623-628