

Curriculum Vitae – Bettina Eichler-Löbermann

Personal Data

Title	apl. Prof. Dr. habil.
First name	Bettina
Name	Eichler-Löbermann
Current position	Senior Researcher
Current institution(s)/site(s), country	University of Rostock, Germany
Identifiers/ORCID	0000-0001-8306-0452

Qualifications and Career

Stages	Periods and Details
Degree programme	Agroecology, Diplom Agricultural Engineer (M.Sc.), 1988 – 1993, University of Rostock, Germany
Doctorate	1997: Doctorate, Thesis: Phosphorus uptake of catch crops and their contribution to utilize accumulated phosphorus reserves in soil under low-input conditions (mentor: Detloff Köppen), University of Rostock, Germany
Stages of academic/professional career (<i>optional after doctorate</i>)	<p>2004: Habilitation procedure in Crop husbandry (doctor agricuturae habilitatus), Thesis: Phosphorus cycles in sustainable soil use systems University of Rostock</p> <p>since January 2005 until now: Associate professor (E 14) at the department of Crop Science and Agronomy (temporary head of the chair from 2009 to 2011) at the University of Rostock, Germany</p> <p>Lecturing on Crop husbandry, Agroecology, Organic farming, Agriculture in the Tropics, Renewable resources and Bioenergy, Responsibility for six teaching modules,</p> <p>Lead and participation of several research projects, administration of the department,</p> <p>Organization of foreign affairs of the University</p> <p>from April 2013 until April 2018:</p>

	<p>Vice-President for Internationalisation, Gender and Diversity Management, University of Rostock, Germany</p> <p>from February 1998 until December 2004 Scientific lecturer (E 13) at the department of Sustainable Crop Production, Lecturing on Crop husbandry, Research activities and project participation University of Rostock, Germany</p> <p>from July 1997 until December 2000: Agricultural advisor (as part time job from January 1998) Advising in the field of crop production, fertilizer application and pesticide use, LMS Agricultural Advisory Service GmbH, Germany</p>
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Supplementary Career Information

from March 2005 until September 2005: Parental leave

Engagement in the Research System

- 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 220 papers (about 85 peer reviewed, Scopus h-index 23)
- Coordinator or partner in about 35 national and international projects
- Supervision of 13 doctoral theses
- Supervision of about 90 Master and Bachelor theses

Lead of the Projects/Sub projects (Title, duration, project number) since 2010:

EU-Conexus. Smart Urban Coastal Sustainability. European Universities. Project lead for University of Rostock. Erasmus Mundus (2022 to 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 to 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 to 2024, No. FNR-2220NR059B

Innovative solutions to sustainable soil phosphorus management (InnoSoilPhos) Phase I to III – Subproject C Agronomic effectiveness of P resources: BMBF 2015 - 2024, No. 031A558C and 031B1061A

Taraxagum Phase I to III – Nutrient content of by-products and weed management in *Taraxacum kok-saghyz*, Continental, 2019 to 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 to 2022

DiveCropS - Diversifying cropping systems - Traditional knowledge and innovative approaches: DAAD/BMZ Partnerschaften zur Förderung der Biodiversität in Entwicklungsländern. 2019 to 2022

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

Biomass - Ash – Monitoring (BAM); Subproject: Agronomic evaluation, BMVEL, 2017 to 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 to 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 to 2018

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

Microbial phosphorus mobilisation by plant growth promoting fungi in cropping systems. ppp – Project with Colombia (Procol), DAAD, 2013 to 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 to 2016, No. FNR-22030111

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

The role of phosphorus nutrition on the pathogenicity of *Mycosphaerella fijiensis*. DFG, 2011, in cooperation with IBP, Santa Clara, Cuba, DFG project Ei 678/7-1

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

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

Nutrient cycling in bioenergy systems. University of Rostock, 2009 to 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

Sustainable management of natural resources. Subject-related Partnerships with Institutions of Higher Education. In cooperation with Cuba and Nicaragua, DAAD, 2009 to 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

Ten key publication

1. Eichler-Löbermann, B., Zicker, T., Kavka, M., Busch, S., Brandt, C., Stahn, P., Miegel, K. (2021): Mixed cropping of maize or sorghum with legumes as affected by long-term phosphorus management. *Field Crops Res.* 265, doi.org/10.1016/j.fcr.2021.108120
2. 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
3. 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
4. Vogel, T.; Kruse, J.; Siebers, N.; Nelles, M.; Eichler-Löbermann, B. (2017): Recycled products from municipal waste water: Composition and effects on phosphorus mobility in a sandy soil. *J. Environm. Qual.* 46:443–451. DOI: 10.2134/jeq2016.10.0392
5. Ohm, M.; Paulsen, H.; Moos, J.; Eichler-Löbermann, B. (2017): Plant available soil phosphorus contents decrease in organic crop rotations and grassland under long term negative phosphorus budgets. *Agron. Sust. Developm.* 37, article 17. DOI: 10.1007/s13593-017-0425-y

6. Hupfauf, S.; Bachmann, S.; Fernández-Delgado Juárez, M.; Insam, H.; Eichler-Löbermann, B. (2016): Biogas digestates affect soil P availability and microbial community composition. *Sci. Total. Environm.* 542, 1144 – 1154. DOI: 10.1016/j.scitotenv.2015.09.025
7. 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
8. 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
9. 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
10. Schiemenz, K.; Eichler-Löbermann, B. (2010): Biomass ashes and their phosphorus fertilizing effect on different crops. *Nutr. Cycl. Agroecos.* 87, 471-482, DOI: 10.1007/s10705-010-9353-9