Curriculum Vitae

Prof. Dr.-Ing. Alexander Buttgereit

Department of Road Construction - Maintenance Management
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Professional career:

- Studies of civil engineering at the Ruhr University Bochum, specializing in traffic and urban planning as well as environmental engineering (soil, landfills, contaminated sites, pipeline construction)
- Traineeship for the higher civil engineering administrative service in the specialization road engineering
- County of Neuss, Civil Engineering Office, Product Group Manager for Planning and Construction of County Roads
- City of Münster, Office for Mobility and Civil Engineering, department director for the construction of roads and sewers, road maintenance, bridge construction and traffic management
- part-time lecturer at Münster University of Applied Sciences "Construction of Existing Road Infrastructure" and "Municipal Road Maintenance"
- Dissertation "Approaches for a maintenance management of municipal roads under consideration of the NKF".
- Professor Department of Road Construction - Maintenance Management, Jade University of Applied Sciences

Research Association for Roads and Traffic (FGSV) Membership and activities:

- Member of and vice-chairman of Commission 2 "Municipal Roads
- Member of the cross-sectional committee QA 8 "BIM in the FGSV".
- Head of the ad hoc group 0.3.2.4 for the revision of the "leaflet for water-permeable pavements of traffic surfaces"
- Member of the Steering Committee 4 Infrastructure Management
- Corresponding member in the ad hoc group trenching methods
- Member of the Working Committee 4.1 Management of Road Maintenance
- Member of working group 4.1.002 Financial requirements prediction
- Member of working group 4.5.5 Revision of guidelines for the dimensioning of road construction (RStO)
- Former member of Working Committee 6.2 "Industrial by-products and recycled building materials"

Some Research:

- Collaboration in the international research project "**SaferUp!**" ESR 9, project of the EU from the Horizon 2020 Excellence Program (H2020-MSCA-ITN SAFERUP) (03/2018 to 05/2022).
- **Influence of excavations on the durability of roads**, FGSV research number 01/2016 (completed and published), project partners: AG Verkehrswesen / Straßenbautechnik, Prof. Weßelborg (IWARU-V) and City of Münster.
- **Calculation of the stiffnesses of an asphalt pavement based on extended material analyses - feasibility study**, own funds City of Münster, (completed), project partner: Ruhruniversität Bochum - Chair of Traffic Route Engineering.
- **Increasing the use of bicycles in daily life by improving the maintenance of bicycle path networks (AllRad)**; BMVI - National Cycling Plan (NRVP); project partners: Mainz University of Applied Sciences Civil Engineering FB Technik, City of Münster (ongoing)
- **Resource Plan for Municipal Civil Engineering (ReKoTi)**, Resource Efficient Circular Economy - Construction and Mineral Material Cycles BMBF (in preparation), Project partners:

Münster University of Applied Sciences (Resources WG, Infrastructure WG, Traffic Engineering / Road Construction Technology WG), City of Münster, Karlsruhe University of Applied Sciences Institute for Traffic and Infrastructure, Ruhr University Bochum, Chair of Construction Informatics, Hermann Dallmann Straßen- und Tiefbau, Thomas & Bökamp Ingenieurgesellschaft mbH, Associated partners: Deutscher Asphaltverband e. V. (DAV), Forschungsgesellschaft für Straßen- und Verkehrswesen e.V. (FGSV), Industrial Association for Geosynthetics (IVG)

- **Sustainable and environmentally oriented active geocomposites for traffic surface drainage (NUAGE)**, lead market competition EnergieUmweltwirtschaft.NRW (ongoing), project partners: Münster University of Applied Sciences - IWARU, Huesker Synthetic GmbH, City of Münster
- **Concept for data-based assessment of traffic stress on municipal road bridges (DaKomStra)**, BMVI mFund (ongoing), project partners: Münster University of Applied Sciences, "Mathematics and Numerical Methods in Structural Engineering" teaching and research area at the Department of Civil Engineering, the City of Münster and Thomas & Bökamp Ingenieurgesellschaft mbH
- **Reinforcement of geotextiles through the use of novel textile structures for improved erosion protection (tufted geotextiles)**, IGF research project (ongoing), project partner: Institute for Soil Systems at RWTH Aachen e.V., Münster University of Applied Sciences, Department of Civil Engineering - Geotechnics / Civil Process Engineering, City of Münster
- **Data-based assessment of the resilience of municipal road infrastructure (DaRkSeit)**, BMVI mFund, project partners: Dresden University of Technology, Institute of Urban Engineering and Road Construction (ISS), Uhlig & Wehling GmbH, Mittweida, Ingenieurgesellschaft PTM Dortmund mbH, Office for Mobility and Civil Engineering of the City of Münster, duration: 36 months, planned start of project 01.10.2021
- Member of the supervisory committee "**Possibilities and limits of the georadar method**" FE 04.0284/2014/MRB (since 2016 until I/2018)
- Member of the supervisory committee "**Evaluation of resource-saving base courses**" FE 06.0096 (completed)