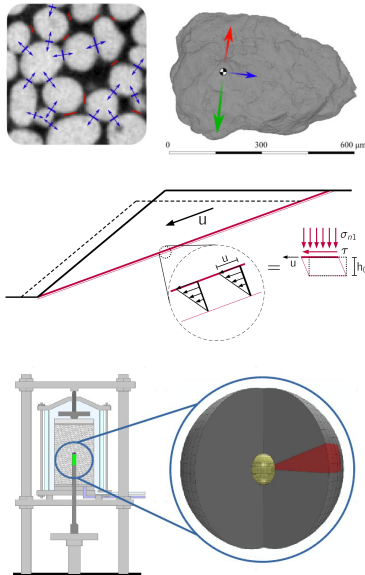


Faculty of Civil Engineering Institute of Geotechnical Engineering

Chair of Soil Mechanics and Foundation
Engineering



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RESEARCH

Current Research Projects:

<https://tu-dresden.de/bu/bauingenieurwesen/geotechnik/forschung/forschungsprojekte/bodenmechanik-grundbau>

- Digital Twin of the road system
Bearbeiter: Sebastian Ullmann, Förderung: DFG
- Micromechanical analysis of state variables for phenomenological constitutive models of soils
Researcher: Selma Schmidt
- Identification test for the determination of liquefaction susceptibility
Researcher: Bozana Bacic, Funding: DFG
- Validation of Cone Penetration Tests
Researcher: Markus Uhlig
- Strain-dependent slope stability
Researcher: Kornelia Nitzsche
- Interaction between geotextile reinforcement and soil
Researcher: Claudia Bräunig
- Slope stability and renovation of open pit embankments and dumps
Researcher: Markus Uhlig, Georg Lichtblau

Recent Publications:

<https://tu-dresden.de/bu/bauingenieurwesen/geotechnik/forschung/publikationen>

STUDIES

Diploma Programme - Civil Engineering:

Contact Person direct & distance students: Georg Lichtblau
Basic Classes:

- Soil Mechanics & Foundation Engineering
- Rock Mechanics & Tunnel Construction



Advanced Classes:

- Geotechnical Analyses
- Geotechnical Design Calculations
- Geotechnical Case Studies
- Soil Behaviour & Constitutive Models
- Numerical Analysis of Geotechnical Boundary Problems

Master's Programme - ACCESS (Advanced Computational and Civil Engineering Structural Studies):

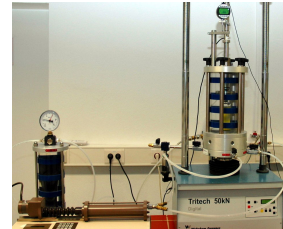
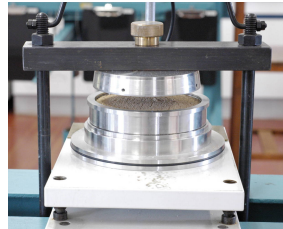
Contact Person: Selma Schmidt

- Constitutive Modelling of Soils

LABORATORY

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Services:

- Soil classification
- Permeability tests
- Oedometric compression tests
- Direct shear tests (possible measurement of wall friction, tests with gravel)
- Triaxial compression tests (displacement or load controlled testing, also predefined stress paths)
- Triaxial and oedometric compression tests in high pressure range (up to 12 MPa cell pressure)
- Calibration of Cone Penetration Tests (CPT) in fine-grained soils
- Determination of soil stiffness in small strain range (Bender Elements, LVDT)
- Determination of thermal conductivity

Further information on
Dresden Technologieportal

<https://tp.dresden-concept.de/de/partner/view/id/1778>

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