Division: Transport Planning and Technology of Transport Systems

Integrated Transport Planning
Prof. Dr.-Ing. Christine Ahrend
Office: SG 4, Building SG 4.1, Room 409
Salzfufer 17-19, D-10587 Berlin
Tel.: +49 30 314-25145, Fax: +49 30 314-27875
www.verkehrspflanung.tu-berlin.de
E-Mail: sektreat@verkehrspflanung.tu-berlin.de

- Interdependencies between Traffic, Regional Structure, Environment, Technology, Economics and Society
- Futurology and Strategies
- Mobility Patterns and Routines
- Empirical Mobility Research
- Transport and Mobility in International Context
- Evaluation of Transport Programmes and Measures

Transport Systems' Planning and Transport Telematics
Prof. Dr. Kai Nagel
Office: SG 12, Building SG 12, 2. OG
Salzfufer 17-19, D-10587 Berlin
Tel.: +49 30 314-23308, Fax: +49 30 314-26269
www.vsp.tu-berlin.de
E-Mail: sekretariat@vsp.tu-berlin.de

- Multi-modal modelling, simulation, and forecasting of transport systems (4-step-process, activity-based demand generation, multi-agent-simulations)
- Multi-modal transport systems analysis
- Transport telematics
- Transport informatics (algorithms and methods in particular for large transport systems)

Transport Engineering

Planning and Operation of Roads
Prof. Dr.-Ing. Thomas Richter (speaker)
Office: TIB 3/3-3, Room 304
Salzfufer 17-19, D-10587 Berlin
Tel.: +49 30 314-72421, Fax: +49 30 314-72884
www.strassenplanung.tu-berlin.de
E-Mail: spb@ils.tu-berlin.de

- Urban development and road traffic planning
- Intermodal planning of transport networks
- Design of urban roads
- Design of rural roads and motorways
- Immision control
- Traffic safety research
- Traffic management systems / intelligent traffic systems

Transportation Seminar
Prof. Dr.-Ing. Thomas Richter (speaker)
Office: SG 21, Building SG 4.1, 5th floor
Salzfufer 17-19, D-10587 Berlin
Tel.: +49 30 314-79766, Fax:+49 30 314-25843
www.vwsem.tu-berlin.de
E-Mail: sekretariat@vwsem.tu-berlin.de

- Intermodal consideration of transport systems
- Coordination and moderation of interdisciplinary workgroups
- Project management / teambuilding

Division: Automotive Engineering and Internal Combustion Engines

Automotive Engineering
Prof. Dr. rer. nat. Volker Schindler
Office: TIB 13, Room 343
Gustav-Meyer-Allee 25, D-13355 Berlin
Tel.: +49 30 314-72797, Fax: +49 30 314-72505
www.kfz.tu-berlin.de
E-Mail: info@kfz.tu-berlin.de

- Vehicle concepts with conventional and alternative drive systems
- Vehicle safety with a focus on:
  - Child safety
  - Compatiblity
  - Pedestrian safety
  - Small vehicle safety, two-wheeler safety
  - Optimization of road accident rescue
  - Biomachanics
  - Crash testing and numerical simulation
- Energy and resource management with main focus on:
  - Energy management in vehicles
  - Electromobility, use patterns for vehicles with electric drive trains, vehicle-to-grid
- Development methods in the automotive industry:
  - Project management and quality methods
  - Computational design and simulation tools

Internal Combustion Engines
Prof. Dr.-Ing. Roland Baar
Office: CAR-B1, Room ground floor 030
Carnotstr. 1A, D-10587 Berlin
Tel.: +49 30 314-26946, Fax: +49 30 314-26105
www.vkm.tu-berlin.de
E-Mail: vkm@tu-berlin.de

- Concepts of modern combustion engines regarding efficiency, emissions, power, drivability and costs
- Thermodynamic and fluiddynamic investigations in experiment and simulation
  - engine process
  - turbocharging / downsizing
  - fuels
  - mixing / combustion
- Test equipment for engines, turbocchargers, components, measurement technology for combustion engines

Electric Railway Systems
Prof. Dr.-Ing. Peter Mnich
Office: CAR 6, Room 102
Carnotstr. 6, D-10587 Berlin
Tel.: +49 30 314-23531, Fax: +49 30 39992491
www.bahnsysteme.tu-berlin.de
E-Mail: mnn@bahntechnik.de

- Advanced railway systems and techniques
- Maglev technologies and linear traffic
- High speed rail traffic
- Traction power supply and simulation
- Vehicle power supply
- Power rating and energy consumption of railway systems
- Automatic railway operation
- Evaluation of railway systems: Planning, technologies, economic analysis, environment
Institute of Land and Sea Transport Systems (ILS)

Address: Salzufer 17-19, D-10587 Berlin
Executive Director: Prof. Dr.-Ing. Markus Hecht
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www.ils.tu-berlin.de, E-Mail: markus.hecht@tu-berlin.de

Vice Executive Director: Prof. Dr.-Ing. Thomas Richter
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MOVE-IT - IT-Zentrum für Mobilität und Verkehr
Sekr. SG 10, Building SG 12, 1st floor, Tel. +49 30 314-24997, Fax +49 30 314-26883,
www.move-it.tu-berlin.de, E-Mail: b.kaether@move-it.tu-berlin.de

ILS is one of 7 institutes of Faculty V, Mechanical Engineering and Transport Systems,
Technische Universität Berlin, www.vm.tu-berlin.de

Division of Naval Architecture and Ocean Engineering
www.mar.sys.tu-berlin.de
Office: Kornelia Tietze, SG 17, E-Mail: kornelia.tietze@naoe.tu-berlin.de

Design and Operation of Maritime Systems

Prof. Dr.-Ing. Gerd Holbach
Building SG 1, Room 306
Tel.: +49 30 314-21417, Fax: +49 30 314-78969
Office: SG 6 (Tel.: +49 30 314-21213)
E-Mail: holbach@naoe.tu-berlin.de

- Ship design
  - integrated design
  - general arrangement
  - design methodology
  - Computer Aided Design

- Outfitting and accommodation
  - Accommodation layout
  - Cargo handling and stowage
  - Ship operation

- Safety and security on board and at harbor
- Construction and acoustics
- Management of single- and major projects
- Maritime transport
  - Seatrade / Cargoflow
  - Maritime transportsystems
  - Transportchains

Dynamics of Maritime Systems

Prof. Dr.-Ing. Andrés Cura Hochbaum
Building SG 1, Room 205
Tel.: +49 30 314-26010, Fax: +49 30 314-22885
Office: SG 17 (Tel.: +49 30 314-24657)
E-Mail: cura@tu-berlin.de

- Cavitation
- Motion and Flow Simulation
- Aero- and hydrodynamics of sailing vessels
- Design of offshore structures
- Seakeeping tests
- Offshore-technology
- Deep sea systems
- Oil recovery vessels

Research Field Ocean Engineering:

Prof. em. Dr.-Ing. Günther Clauss
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- Resistance and propulsion
- Manoeuvering
- Seakeeping of maritime systems