



15. Mai 2003

## Vortragsankündigung

Am **Mittwoch, dem 18. Juni 2003**, 8<sup>15</sup> – 10<sup>30</sup> Uhr, findet im **M-Lab** (Raum 406, 4. Stock, Gebäude A1 Nord), folgender Vortrag statt.

### Satellite Communication Fundamentals

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#### **Abstract:**

This first talk of a series of two has tutorial character. Its aim is to provide basic knowledge on satellite systems. This includes different transmitter and receiver concepts, access schemes and channel characteristics. The following items will be addressed:

- General architecture of satellite communication systems
- Satellite orbits and orbital relationships
- Multi-Satellite System, global coverage
- Basic concepts and frequency plan
- Access Schemes
- Space segment
- Transponder types: transparent (Bent-pipe) and regenerative (Demod/Remod)
- Ground segment, architecture of an earth station
- Satellite link budget analysis
- Channel characteristics: total noise temperature calculation, Doppler effect, fading
- Present and future satellite systems
  - International experimental satellite Phase 3D
  - Command station at Brno University of Technology

Der Vortrag ist öffentlich und alle Interessenten sind dazu herzlich eingeladen. Der zweite Vortrag in dieser Reihe findet am Freitag, dem 20.6.03, 14<sup>00</sup> Uhr, ebenfalls im M-Lab statt.

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URL: <http://www.ite.fh-wiesbaden.de>

Beschreibung der Anfahrt siehe: <http://www.ite.fh-wiesbaden.de/anfahrt/index.html>