

# COST Action - Training School 2011

Title: Application of Soundscape  
**Measurement, Analysis and Evaluation**

Name and address of affiliation of host:  
*Prof. Dr.-Ing. Klaus Genuit*

*HEAD acoustics GmbH  
Ebertstr. 30a  
52134 Herzogenrath  
Germany*

Period to host a Training School  
Monday July 11<sup>th</sup> until Friday July 15<sup>th</sup> 2011

Teaching Team:  
*Prof. Dr.-Ing. Klaus Genuit  
Prof. Dr. Brigitte Schulte-Fortkamp, TU Berlin, Germany  
André Fiebig MA, HEAD acoustics GmbH*

Topics:  
*A practical course of 5 days is planned, where young researchers will be educated in binaural measurement technology, enhanced sound analysis software and will have the opportunity to perform field and laboratory tests. For the course measurement technology and workstations are available and a team of experienced researchers will train and support the young researchers. Soundscape case- studies comprising measurement, analysis, evaluation, and classification of defined environmental areas will be carried out in collaboration with well known researchers in environmental noise and psychoacoustics. The collected data will be analyzed in teamwork.*

## Sketch of Agenda

Day 1	Day 2	Day 3	Day 4	Day 5
Measurement Technology: Introduction, Theory and Practical Use	Analysis of Sound: Conventional Indicators vs. Psychoacoustic Parameters (Theory and Application)	Listening Tests: Theory, Execution and Interpretation of Results	Perception and Evaluation of Soundscapes: Field vs. Laboratory Assessments	New Approaches: Beamforming, Audible Noise Maps, etc.