## ODEON WORKSHOP - ROOM ACOUSTIC MODELLING TECHNIQUE

Jens Holger Rindel, Claus Lynge Christensen

Odeon A/S c/o Ørsted-DTU Building 352, Ørsteds Plads, DK-2800 Kgs. Lyngby, Denmark jhr;clc@oersted.dtu.dk

## **ABSTRACT**

The workshop is an opportunity for the users of the Odeon room acoustics software to meet with the developers and discuss various problems and solutions to the modelling technique.

The workshop is planned to be structured in four parts dealing with:

- Room modelling, finding and correcting errors in the geometry, assigning material properties and scattering coefficients
- Calculations and results, optimizing calculation time according to different purposes, tools and hints for efficient analysis of results
- Auralization, and some applications like checking for echoes and other anomalies, or preparing calibrated sets for comparisons and listening tests, how to apply directivity files for sources and HRTFs for receivers
- Reporting and data exchange, how to transfer the results like data, graphics, and sound files for presentations, reports, or further data processing.

The workshop will also touch on the future, some planned extensions and new features in the pipeline, and wishes from the users.

The workshop is open to all interested, but it might be an advantage to have some knowledge about room acoustic computer modelling in general and the basic principles in the Odeon software. A free demo version and the manual can be downloaded from the homepage: <a href="www.odeon.dk">www.odeon.dk</a>