

25 years of room acoustics



Invitation

Amazing! 25 years have passed since we released version 1.0 of the software in 1991 and we will soon be releasing version 14.0 of Odeon. Both calls for a celebration. We therefore invite you to our 25-year anniversary that takes place Friday afternoon, June 10, 2016 at Scion DTU. The afternoon includes a historical overview from the very start of Odeon, recent conference presentations with examples of current activities in our development, and a peak into the future. After the presentations, we will serve some tapas & wine.

Program

13:30 A short history of ODEON:

- 25 years with the Odeon Room Acoustics software.
- Live demonstration of auralisation.
- News and features of the next ODEON 14.0.

14:30 Break with refreshments

14:45 Recent research highlights:

- Using genetic algorithms to estimate absorption of materials to match a room model against existing room.
- Discretisation of curved surfaces and choice of simulation parameters in acoustic modelling of religious spaces.
- Applying In-situ recalibration for sound strength measurements in auditoria.
- Detection of sound colouration with the cepstrum technique.
- Acoustical simulation of open-plan offices according to ISO 3382-3.

16:10 Future research and development

- DSP developments: Chorus effect in auralisation, Variable length sweep.
- Estimating source power spectrum out of measured SPL.

16:30 Tapas & Wine

Presenters: Claus Lynge Christensen, Jens Holger Rindel, George Koutsouris, Juan Gil, Odeon A/S
(<http://www.odeon.dk/about>)

When? - Friday, June 10, 2016, 13:30 – ca. 18:00.

Where? - The auditorium, Diplomvej Bldg. 372, DK-2800 Kgs. Lyngby.

Reply before: May 31th 2016

Best regards,

The Odeon team