

## ODEON Master Class \* 8-9 June 2023

This master class is for experienced users of ODEON, and covers lectures and hands-on exercises, as well as related publications material.

Please make sure to download the latest version of the ODEON Combined from [this page](#). An installation copy of the most recent ODEON version and license will also be provided for use during the course. In addition, if you wish to make modifications of ODEON files in SketchUp (optional), please download one of the latest [SketchUp Pro](#) versions (a 30-day free trial is also available).

**It is important to bring your own computer with administrator rights in order to install any necessary provided software. Check ODEON's system requirements [here](#).**

**Note:** *Each participant should bring a case for discussion, to be presented at the end of the day (either first or second). It can be either a case that needs feedback or just a worth-mentioning special example.*

### Instructors:

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## PROGRAM

*Thursday 8th June*

- 09:00 Registration, welcome, and setup**
- 09:15 Simple rooms with non-diffuse sound field**  
Presentation
- 09:45 Adjustment of materials using measured acoustic data (Sports hall)**  
Hands-On exercise
- 10:45 Coffee Break**
- 11:00 The Lombard effect and estimation of acoustic capacity**  
Presentation
- 11:45 Modelling the noise in a cafeteria using dynamic surface sources**  
Hands-On exercise
- 12:30 Lunch**
- 13:15 Multi-source auralisation of conversation in cafeteria**  
Hands-On exercise
- 14:00 Demonstration through ODEON's speaker layout**
- 14:30 Coffee Break**
- 14:45 Cases from participants**
- 16:30 End of day 1**
- 17:30 Social dinner**

*Friday 9th June*

- 09:00 Breakfast and setup**
- 09:15 The material calculator**  
Hands-On exercise
- 09:45 Room acoustic parameters – define new ones (Concert hall)**  
Hands-On exercise
- 10.30 Advanced grid responses and colour scales**  
Presentation
- 10:45 Coffee Break**
- 11:00 Scattering, echo, focusing**  
Hands-On exercise
- 11:45 Flutter echo (sports hall case, PVC walls)**  
Presentation
- 12:00 News in ODEON version 18**  
Presentation
- 12:30 Lunch**
- 13:15 Diffraction and attenuation by screens**  
Presentation
- 13:30 Modelling traffic noise (reflection paths and diffraction)**  
Hands-On exercise
- 14:15 Coffee Break**
- 14:30 Cases from participants**
- 16:00 End of day 2**