



## **GSSEA-Light. Advanced User Training (three days).**

This is the advanced training course suitable for users that intend to be experts using GSSEA-Light for larger and much more complex modeling tasks. The theoretical lectures go very deep into the theoretical foundation of the modeling and calculations procedures used by GSSEA-Light. The detailed use of the most advanced GSSEA-Light features is practiced by a considerable amount of hands-on exercises.

### ***Necessary background***

Our basic user course is mandatory background knowhow for this course. Some independent practical use of the software before attending this course is also of great value. Engineering degree is necessary, preferably on Master level.

It may also be a good short course for persons that are uncertain about if the use of the GSSEA-Light software is appropriate for their needs.

### ***Agenda:***

#### ***Day 1:***

9:00-12:00 Comprehensive theoretical foundations of SEA as a calculation method for sound and vibration.

12:00-13:00 LUNCH

13:00-15:00 The modeling and data handling structure of GSSEA-Light.  
Databases, Object models, User Interface in detail.

15:00-15:15 COFFEE

15:00-15:30 Project and model structure of GSSEA-Light.

15:30-18:00 Hands on modeling 1 : Creating various component types with properties. Using different connectors between components.  
Adding different types of user defined sources.

**Day 2:**

- 9:00-11:00 Theoretical formulas behind component, connector and input powers. The technical reference manual in detail.
- 11:00-12:00 Advanced subjects: Property specifications, Multi-model projects in detail
- 12:00-13:00 LUNCH
- 13:00-14:45 Hands on modeling 2: Adding new property specification to the model components. Testing the comparative plotting of results.
- 14:45-15:00 COFFEE
- 15:00-17:00 The SQL databases used by GSSEA-Light. Practical use of the SQL Server Management studio. Creation of own project databases from the templates. Version control of the Utility database to get traceability for archived projects.

**Day 3:**

- 9:00-11:00 Hands on exercise 3: Creation and maintenance of project and utility databases. Viewing the databases with SQL Server Management Studio
- 11:00-12:00 GSSEA-Light plots and lists. Importing user defined spectral data. Exporting calculated results to txt or Excel files.
- 12:00-13:00 LUNCH
- 13:00-14:45 Hands on exercise 4: Source and path contribution plotting.
- 14:45-15:00 COFFEE
- 15:00-16:30 Hands on modeling 5: Real life example modeling depending on user preference (should be prepared before the course)
- 16:30-ca 17:00 Wrap-up and time for discussion.

**Lecturer**

Juha Plunt

**Location**

On site at customer

**Price**

3500€ + 250€/attendee + travel costs