

## Industry Expert-Breakfast

# How Testing solutions enable to engineer innovative and winning products

**Thursday, April 26. 2018, in Zurich**

**Registration:** [www.siemens.com/plm/ch/experts/testing](http://www.siemens.com/plm/ch/experts/testing)

## Program

**08:30 Registration & Breakfast**

**09:00 Welcome**

**09:05 Root cause analysis of machine vibrations.**

There are several tools available within the Siemens test portfolio to get a better understanding of the root cause of machine vibrations in operational conditions. On the basis of a real case, it will be explained how tools such as operational measurement, modal analysis and the digital twin were used to resolve an existing machine vibration problem.

**10:00 How to evaluate a sound?**

In this session an overview will be given of a complete sound evaluation, starting from how to properly measure the sound. From a simple replay to a replay with filters and sound metrics. And as a final evaluation a jury test.

**10:30 Break**

**11:00 Sound Source Localization**

Siemens has released a digital sound camera. The advantages of this camera will be explained together with the different sound source propagation algorithms that are supported.

**11:30 New trends in structural testing**

Siemens sees a tendency in industry to acquire larger structural databases, more shakers, more spectral lines. This is pushing current parameter estimation algorithms to their limits. A new parameter estimation algorithm will be presented that can handle large databases.

**11:50 Identifying component operational forces?**

Over the last years, new developments have taken place with respect to force identification in transfer path analysis. The new method will be reviewed and explained and the doors this opens with respect to apply this forces on different system integrations.

**12:30 Lunch & Networking**

After the event our experts are pleased to answer your questions in a comfortable atmosphere.

**Location:** Siemens Auditorium, Freilagerstrasse 40, 8047 Zürich, Tel. +41 (0)44 755 72 72

**Contact:** [tatiana.palladini@siemens.com](mailto:tatiana.palladini@siemens.com)