



## Abstract

### Session 39: Operations & Maintenance II

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#### Title

**39-3: Machinery protection for reciprocating compressors – experiences and outlook**

#### Summary

Protection and safeguarding systems have proven to be essential for increasing operational safety of machinery equipment. They protect people's life and health, investments as machinery equipment, ensures plant's productivity and saves the environment. To meet those expectations a proper selection has to be done.

Therefore the differentiation between rotating equipment and reciprocating machinery is essential. Only purpose-designed systems for reciprocating compressors will fulfill the operator's demands. Experiences of BASF AG Ludwigshafen have proven the use of systems designed not for oscillating machinery lead to unsatisfactory results.

Jointly with HOERBIGER Vienna as components and system supplier those were considered for a newly developed system. The wide range of applications and types of compressors were taken into account as well as new upcoming standards for safety relevant systems, such as IEC 61508. An outlook shows in which direction the future leads for machinery protection systems for oscillating machinery.