

**Company: NEAC Compressor Service GmbH & Co KG**

**Werkstr. o. Nr.; D-52531 Uebach-Palenberg; Germany**

**Lecturers: Robert van Lienen and Harry Lankenau**

**Robert van Lienen**

Position: Regional After Market Sales and Product Manager for GHH Hyper Compressors

eMail: [Robert.vanLienen@NEAC.de](mailto:Robert.vanLienen@NEAC.de)

Phone: +49-(0)2451-481-319

---

**Harry Lankenau**

Position: Head of Technical Services & Engineering

eMail: [Harry.Lankenau@NEAC.de](mailto:Harry.Lankenau@NEAC.de)

Phone: +49-(0)2451-481-312

Synopsis EFRC 2007
--------------------

## **Reciprocating Compressor Foundations – They do not last forever**

After 30 and more years of operation the foundation of a reciprocating compressor as well as the frame itself may no longer be in proper condition and further operation considered being unsafe.

Unbalanced dynamic foundation loads commonly accompanied by severe oil contamination typically initiate the deterioration of the concrete strength. Rocking and twisting movement of the machine on the foundation may also damage the frame that is resting on the grouting, sole plates or steel blocks.

That is the time to consider a sound reconditioning of the foundation and check of the integrity of all compressor parts with refurbishment or replacement of parts where necessary.

When the compressor has been opened and removed from the foundation the amount of work becomes clear – including the 'surprises', which are not visible from the outside.

Since unit downtime is of the essence the repair activities may require significant manpower in the field as well as capable tools and large milling machines in the workshop. Only specialists with the know-how, experience and capacity are able to perform all necessary steps in parallel and in close coordination.

This presentation will outline the procedure of typical compressor revamp in conjunction with successfully performed foundation repair and reconditioning.