

## Online Registration

[Link to the Registration Portal](#)

### Conference Fee

Early Bird, till May 18, 2018 EUR 975,- excl. VAT

Registration after May 18, 2018 EUR 1090,- excl. VAT

The conference fee includes:

Conference participation, buffet lunches, all conference beverages, coffee and snacks, proceedings on USB stick, welcome reception and conference dinner.

**Free conference admission for one speaker of paper.**

### Conference and Training Fee

Early Bird, till May 18, 2018 EUR 1185,- excl. VAT

Registration after May 18, 2018 EUR 1300,- excl. VAT

The conference and training fee includes:

Training documentation, conference participation, buffet lunches, all conference beverages, coffee and snacks, proceedings on USB stick, welcome reception and conference dinner.

**Compressor Training only** EUR 420,- excl. VAT

Including training documentation, beverages, coffee and snacks

**Accompanying Person** EUR 99,- excl. VAT

Including a guided sightseeing tour, entrance fees, transfers and welcome reception and conference dinner. No conference participation and proceedings.

### Reduced Fees for Students

Student Training Fee EUR 160,- excl. VAT

Student Conference Fee EUR 195,- excl. VAT

### Closing Date for Registration

September 13, 2018

## Conference Venue & Accommodation

HOTEL NH COLLECTION MADRID EUROBUILDING

Calle de Padre Damián, 23, 28036 Madrid, Spain

Double room for single use: EUR 198,- room incl. VAT

Double room: EUR 213,- room incl. VAT

Breakfast included, Prices are per night. Accommodation booking for delegates is available through the Registration Portal.

### EFRC 2018 Conference Secretariat

Mrs. Maica Casanellas

Kuoni Congress

Avenida Diagonal, 416 - 3<sup>a</sup> 1<sup>o</sup>

08037 Barcelona, Spain

[efrc2018@ch.kuoni.com](mailto:efrc2018@ch.kuoni.com)

Phone: +34 93 151 28 01

## Promotion

### Exhibition booth (3x3m)

EFRC members EUR 1800,- excl. VAT

Non-EFRC members EUR 2200,- excl. VAT

Including power supply and mandatory booth equipment

**Sold out**

### Advertisement in Conference binder

Full page, 4c EUR 900,- excl. VAT

## Conference Sponsors



## European Forum for Reciprocating Compressors



## 11<sup>th</sup> EFRC Conference

September 13-14, 2018

Madrid, Spain

**Special Feature**

Compressor Training  
State-of-the-Art Design of  
Reciprocating Compressor Systems  
September 13, 2018






PROGRAMME








EUROPEAN FORUM  
for RECIPROCATING  
COMPRESSORS

Follow us on:

# September 13, 2018 – Conference Programme

08:30	<b>Compressor Training – State of the Art Design of Reciprocating Compressor Systems</b>						
	Options for Compressor Sizing; <i>by Howden Thomassen Compressors</i>	Options for Capacity Control; <i>by HOERBIGER</i>	High-speed versus low-speed compressors; <i>by SIAD</i>	10:00 <b>Coffee Break &amp; Exhibition</b>	Options for Driver Design; <i>by Ariel Corporation</i>	Options for Vibration Control; <i>by TNO</i>	Options for Foundation Design; <i>by NEAC</i>
							09:00 Opening of the Exhibition for Conference Participants
12:00	<b>Lunch Break &amp; Exhibition</b>						
13:00	<b>Start of 11. EFRC Conference</b>						
	<b>EFRC R&amp;D Update</b>						
13:20	<b>Keynote Speech and Q&amp;A</b>						
	<b>Availability and Reliability</b>				<b>Pulsations and Vibration</b>		
14:00	Troubleshooting of recurrent cylinder head stud bolt failures on Natural Gas compressors; <i>TOTAL Refining &amp; Chemicals</i>			14:00	Application of a Constrained Layer Damping to reduce Pipe Vibrations of a Reciprocating Compressor System; <i>TNO</i>		
14:25	Influences on Torsional Vibration Analysis of Electromagnetic Effects of an induction motor driving a rigid flanged reciprocating compressor; <i>Baker Hughes a GE Company / REPSOL</i>			14:25	New adjustable vibration absorber – First application of the Magic Tube on site; <i>KÖTTER CONSULTING</i>		
	<b>Technical Update</b>						
15:00							
16:15	<b>Coffee Break &amp; Exhibition</b>						
	<b>Compressor and Component Design</b>				<b>Pulsations and Vibrations</b>		
16:45	Calculation of Transient Flow in Sealing Elements; <i>STASSKOL</i>			16:45	Effect of cylinder nozzle location on orifice performance; <i>NEUMAN &amp; ESSER</i>		
17:10	A Novel Poppet Valve Design – The Arrowpoppet; <i>Burckhardt Compression</i>			17:10	Modelling of transmission loss characteristics of reactive pulsation dampers; <i>TU WROCLAW</i>		
17:35	Non-Lube operation: Do it right if necessary; <i>HOERBIGER</i>			17:35	Pulsation optimization by dynamic variable orifice & recips crankshafts phase selection; <i>Baker Hughes a GE Company</i>		
20:00	<b>Conference Social Dinner in Real Fábrica de Tapices</b>						

# September 14, 2018 – Conference Programme

Engineering of Compressor Plants		Measuring and Modelling	
09:00	Modularized reciprocating compressor systems and the factors that influence their design; <i>ARIEL Corporation</i>	09:00	Experimental and analytical study on the thermodynamic behavior of a reciprocating compressor; <i>TU DRESDEN</i>
09:25	New design of a complete oil free high pressure compressor series up to a power of 110 kW and a maximum pressure of 450 bars; <i>J.P. Sauer &amp; Sohn Maschinenbau</i>	09:25	Detection and diagnosis of a randomly emerging capacity control problem; <i>PROGNOST</i>
09:50	Design and construction of world's largest hydrogen compression system; <i>Howden Thomassen Compressors</i>	09:50	Measuring dynamic pressure of a mechanical seal of a LDPE reciprocating compressor; <i>Burckhardt Compression</i>
10:15 <b>Coffee Break &amp; Exhibition</b>			
10:45 <b>EFRC Update of Standards and Guidelines of Reciprocating Compressor Systems</b>			
11:00 <b>Technical Update</b>			
			
			
			
			
12:15 <b>Lunch Break &amp; Exhibition</b>			
<b>Pulsations and Vibrations</b>		<b>EFRC</b>	
13:15	Mitigation of piping vibrations of critical hydrogen make-up compressor; <i>TOTAL Refining &amp; Chemicals</i>	13:15	Reversible Usage of a Reciprocating Compressor as Expansion Machine by the Application of new Force Actuated Valves; <i>TU DRESDEN</i>
13:40	Effects of pipe strain on vibrations in reciprocating compressors; <i>WOOD</i>	13:40	Identification and mitigation of Cylinder Gas Passage Pulsations; <i>TNO</i>
14:05 <b>Coffee Break &amp; Exhibition</b>			
<b>Tribology and Wear</b>		<b>Digitalisation</b>	
14:45	Compressor Lubricants based on Polyglycol; <i>BASF</i>	14:45	Smart Packing Solution; <i>STASSKOL</i>
15:10	New insight into the wear of packing rings: model, calculation, experiment; <i>HOERBIGER</i>	15:10	The challenge of Industry 4.0 applied to a stepless capacity regulation system; <i>COZZANI</i>
15:35	New concept cylinder lubrication system application, on a three-stage hydrogen make-up reciprocating compressor; <i>C.S.T. Compression Service Technology</i>	15:35	Root-Cause Analysis with Digital Twins – Discussion and Application; <i>PITPOINT</i>
16:00 <b>Closing Session &amp; Awards – End of 11<sup>th</sup> EFRC Conference approx. 16:30</b>			