

9th EFRC Conference - September 11-12, 2014 Hofburg, Vienna



INFORMATION FOR PARTICIPANTS

CONFERENCE VENUE

Hofburg Vienna
Heldenplatz
A-1014 Vienna, Austria
Phone: +43 1 5873666
vienna@hofburg.com
www.hofburg.com

ENTRANCE

REGISTRATION:

September 10: 12:00-17:00h
September 11: 8:00-17:30h
September 12: 8:30-16:30h

TRAINING SESSION

Conference Training: "Foundation Design for Reciprocating Compressors"

Date: September 10, 2014
Time: 13:00 - 17:00h
Room: Rittersaal, First Floor (Mezzanin)

EXHIBITORS

Room: Festsaal, First Floor (Mezzanin)
Booth build-up: September 10, from 13:00 to 18:00h
Booth dismantling: September 12, from 16:30 to 20:00h

CONFERENCE PROGRAMME

September 11, 2014 from 9:00 to 17:30
September 12, 2014 from 9:00 to 16:30

09:00	Welcome Note by Chairman of EFRC; <i>René Peters</i>	
09:05	Keynote Speech by Technical Division of RAG Rohöl-Aufsuchungs AG; <i>Siegfried Müssig</i>	
09:30	Coffee Break & Exhibition	
	Controls <i>Chairman: T. Heumesser</i>	Monitoring <i>Chairman: F. Maywald</i>
10:00	Comparison of Operation Experiences of Capacity Controls; <i>R. Aigner, BURCKHARDT COMPRESSION AG</i>	Successful Detection of Loosened Bolts Inside a Reciprocating Compressor; <i>C. L. Fernandez Valdes, REPSOL PETROLEO S.A.</i>
10:30	Improvements in Gas Storage Operation by Latest Compressor Innovations; <i>O. Friedlaender, RAG Rohöl-Aufsuchungs AG</i>	Condition Monitoring and Simulated Start Up Sequence Successfully Supported Commissioning of a New Reciprocating Compressor Unit; <i>P. Ferrage, TOTAL</i>
11:00	Technology Updates (Marketing Presentations) <i>Chairman: P. Steinrück</i>	
	The Next Generation Software For Pulsation Analysis and Mechanical Response: PulsimSuite2; <i>W. Vink, TNO</i>	
	Bridging the gap between Machine Protection and Condition Monitoring; <i>C. Steinkamp, PROGNOST SYSTEMS GmbH</i>	
	New Cozzani Sealing Element Material for Higher Reliability; <i>C. Vaglini, DOTT. ING. MARIO COZZANI SRL</i>	
	CPI Hi-Flo RS Valve - Replaceable Seat Compressor Valve; <i>P. Mahieux, CPI</i>	
	Setting the Standard with New HOERBIGER Technologies in Reliability, Efficiency and Environmental Soundness for Recips; <i>G. Machu, HOERBIGER COMPRESSION TECHNOLOGY</i>	
12:00	Lunch Break & Exhibition	
	Sealing / Wear 1 <i>Chairman: M. Langela</i>	Calculation 1 <i>Chairman: F. Cozzani</i>
13:30	Genuine New Concept for a Zero-Emission Packing for Reciprocating Compressors; <i>T. Lindner-Silvester, HOERBIGER COMPRESSION TECHNOLOGY</i>	A Comparative Analysis of Numerical Simulation Approaches for Ring Valve Dynamics; <i>C. Möhl, TECHNISCHE UNIVERSITÄT DRESDEN</i>
14:00	Achieving Gas Leakage Free Operation with a Novel Rod Sealing Solution; <i>J. Klinga, ORESUNDSKRAFT</i>	Method for Evaluating the PFC for the Fatigue Design Margin & Life Estimation for Recip; <i>A. Ketkar, GE OIL&GAS</i>
14:30	Best practice for Efficiency- and Emissions-Upgrade for Gas Gathering Compressors; <i>R. Pol, SHELL / NAM UPSTREAM INTERNATIONAL EUROPE</i>	Improvement of the Cooling Performance of a Reciprocating Compressor Cylinder by a Conjugate Heat Transfer and Deformation Analysis; <i>A. Babbini, GE OIL&GAS</i>
15:00	Coffee Break & Exhibition	
	Pulsation 1 <i>Chairman: E. Drewes</i>	Calculation 2 <i>Chairman: K. Hoff</i>
15:45	Root Cause Analysis of Fatigue Failures of Pulsation Dampers of a Large Underground Gas Storage (UGS) System; <i>A. Eijk & D. de Lange, TNO</i>	Systematic Calculation/Design of the Piston Rod Unit; <i>V. Kacani, LEOBERSDORFER MASCHINENFABRIK</i>
16:15	Vibrations in the Environment -Remedial Actions at a new Compressor Foundation Field Investigation and Redesign by FEM-Calculations; <i>J. Steinhäuser, KÖTTER Consulting Engineers</i>	Advanced Model for Journal Paths in Reciprocating Compressors Including Bearing Deformation, Cavitation and Crosshead Bearings; <i>I. van der Kroon, HOWDEN THOMASSEN COMPRESSORS</i>
16:45	Optimized Robust Compressor Station Design Methodology; <i>E. L. Broerman, Southwest Research Institute</i>	Thermodynamic Calculation of Piston Compressor Units; <i>U. Hesse, TECHNISCHE UNIVERSITÄT DRESDEN</i>
17:15	Closing Remarks of Session Chairmen	
19:30	Conference Dinner in Ball Room of Vienna City Hall	

Friday, September 12: EFRC Conference Day 2

	EFRC <i>Chairman: E. Hutter</i>	Design <i>Chairman: U. Hesse</i>
09:00	EFRC Research: Feasibility Investigation of Non-Metallic and Light Weight Metallic Materials for Light Weight Compressor Pistons; <i>C.M. Wentzel, TU DELFT</i>	Capacity Control System - Application and Development; <i>A. Raggi, DOTT. ING. MARIO COZZANI SRL</i>
09:30	EFRC Guidelines on How to Avoid Liquid Problems in Reciprocating Compressor Systems; <i>P. S. Omrani, TNO</i>	Compressor Revamp for Upgrading a Hydro-Desulphurisation Process in a Refinery; <i>A. Hahn, NEUMAN & ESSER</i>
10:00	EFRC Students Workshop; <i>G. Machu, EFRC</i>	Challenges of Oxygen Reciprocating Piston Compressors; <i>W. Grillhofer, AIR LIQUIDE</i>
10:30	Coffee Break & Exhibition	
11:00	Joint Research in the EFRC; <i>Peter Duineveld</i>	
11:15	Technology Updates (Marketing Presentations) <i>Chairman: P. Steinrück</i>	
	Piston Compressors According to API 618 Low speed or High speed?; <i>T. Heumesser, LEOBERSDORFER MASCHINENFABRIK</i>	
	GE Oil & Gas New Reciprocating Compressor Test Bed; <i>A. Bellandi, T. Woffler GE OIL&GAS</i>	
	Latest On-Line Monitoring System for Compressors and Engines in the Latest Energy Industry from Windrock; <i>E. Kelleher, WINDROCK.</i>	
	Improved and Accelerated Hyper Compressor Maintenance and Revamp Activities Facilitated through 3D Laser Equipment Application; <i>S. Damberg, NEAC COMPRESSOR SERVICE</i>	
	Ariel API 618 Compressors; <i>G. Phillippi, ARIEL</i>	
12:15	Lunch Break & Exhibition	
	Sealing / Wear 2 <i>Chairman: J. V. Koperen</i>	Lubrication <i>Chairman: P. Duineveld</i>
13:15	Performance Improvement of Dry-Running Systems by Optimization of Wear Compensation; <i>N. Feistel, BURCKHARDT COMPRESSION AG</i>	Eliminating Excessive Compressor Lubrication; <i>L. Alexander, COMPRESSOR PRODUCTS INTERNATIONAL</i>
13:45	Scientific Research Methods to Analyse Compressor Wear Parts and Lubricants; <i>T. Heumesser, LEOBERSDORFER MASCHINENFABRIK</i>	New Approach for a Smart Compressor Lubrication System; <i>M. Kornfeld, HOERBIGER COMPRESSION TECHNOLOGY</i>
14:15	Coffee Break & Exhibition	
	Pulsation 2 <i>Chairman: R. Peters</i>	Application <i>Chairman: P. Steinrück</i>
14:45	Case Study: Community Noise Annoyance Mitigation with Intake/Exhaust Silencer Redesign; <i>E. L. Broerman, SOUTHWEST RESEARCH INSTITUTE</i>	Gas to Liquid (GTL) Technology and the Use of Reciprocating Compressors; <i>B. F. Williams, ARIEL</i>
15:15	Integrity Evaluation of Small Bore Connections (Branch Connections); <i>B. Howes, BETA MACHINERY ANALYSIS</i>	Managing Transient Operating Conditions of Hyper Compressors; <i>C. Carcasci, C.S.T. COMPRESSION SERVICE TECHNOLOGY</i>
15:45	Closing Session, Tombola & Awards	
16:30	End of EFRC Conference 2014	

**9th EFRC Conference - September 11-12, 2014
Hofburg, Vienna**

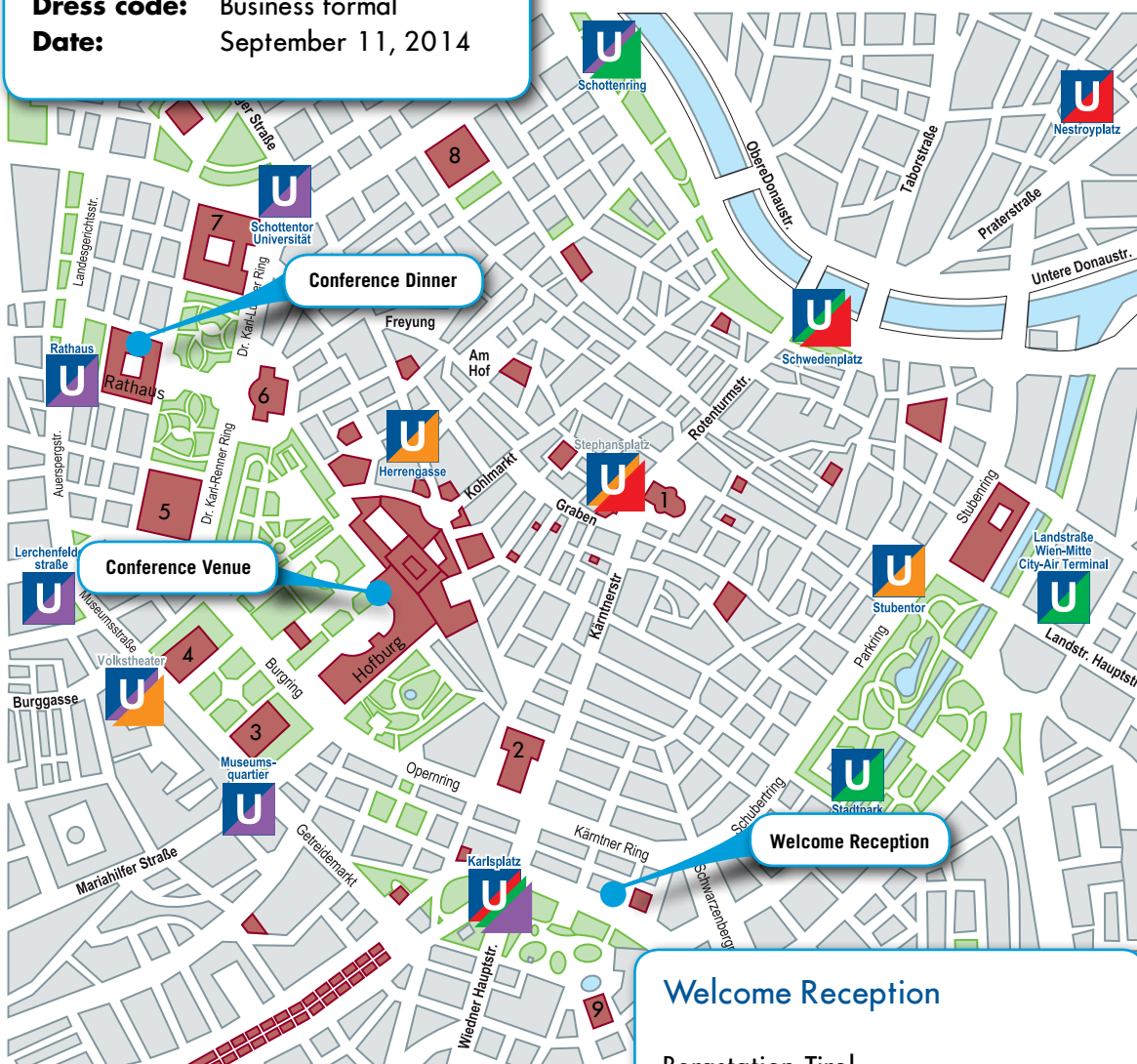


CONFERENCE EVENTS

Conference Dinner

City Hall of Vienna, Festsaal
Felderstrasse 1, Feststiege II
1010 Vienna

Time: 19:30-23:00h
Dress code: Business formal
Date: September 11, 2014



- 1 St. Stephan's Cathedral
- 2 Opera House
- 3 National Museum of Arts
- 4 National Museum of Natural History
- 5 Parliament
- 6 Burgtheater Vienna
- 7 University
- 8 Stock Exchange
- 9 Charles' Church

Welcome Reception

Bergstation-Tirol
Am Karlsplatz 5 (next to Musikverein)
1010 Vienna

Time: 19:00 -23:00h
Dress code: Business casual
Date: September 10, 2014

INFORMATION FOR PARTICIPANTS

9th EFRC Conference - September 11-12, 2014 Hofburg, Vienna



INFORMATION FOR PARTICIPANTS

REMARKS TO CLOSING SESSION - LIFE VOTING WITH TED SYSTEM

The audience will be asked to kindly vote live via TED - system for their favorite paper. The result will be shown in real time.

This year there are:

- 5 nominees for the Best Paper Award for a Technical Paper
- 3 nominees for the Best Paper Award for a Operator Paper
- 2 nominees for the Best Paper Award for a EFRC Paper

TOMBOLA

Attractive prizes are waiting for the winners, your participation is your ticket in the tombola. Be there, if the EFRC Board call you up on stage or someone else will get your present.

1. Prize: Garmin GPSMAP
2. Prize: Samsung Tablet
3. Prize: Sacher Torte (famous Austrian chocolate cake)

PROGRAMME FOR ACCOMPANYING PERSON

September 11, 2014

Meeting Point: Hofburg Congress Center / Conference Registration

Time: 10:00

WALKING TOUR OF THE OLD CITY / Duration: approx. 2 h

We take you on a stroll through the old city, seeing selected points of interest. You will discover some of the delightful features of Vienna and visit parts of the city only a true Viennese can point out. This tour takes you through various eras from the middle ages up to the present time.

The first district is the oldest part of Vienna, where even some sections date back to Roman times. Narrow roads, many still with cobble stones, and the buildings are prime examples of architectural styles from Renaissance to Baroque and up to modern times, the whole place is steeped in history and delightful to walk around.

The special highlight is St. Stephen's Cathedral, the finest Gothic building in Austria. It has a high Gothic choir and a late Gothic nave with a steeply pitched roof covered with a decorative pattern in glazed tiles. The regularly tapering South tower, popularly known as „Steffl“ is Vienna's principal landmark.

The tour ends in the city centre where you have time to take advantage of the great shopping opportunities that Vienna offers or you can just relax in one of the famous Viennese cafes with a „Melange“ and a piece of delicious cake.

9th EFRC Conference - September 11-12, 2014 Hofburg, Vienna



September 12, 2014

Meeting Point: Hofburg Congress Center / Conference Registration

Time: 10:00

HISTORICAL VIENNA INCL. SCHOENBRUNN PALACE (by bus) / Duration: approx. 3.5 hours

This tour shows the most important sights of Vienna; The Hofburg Palace - the former winter residence of the Habsburg Family, the Ringstrasse with its magnificent and impressive buildings such as the State Opera House, National Museums, Parliament, the Burgtheater, the University and the Votivkirche, as well as the Karlskirche (Vienna's most beautiful baroque church) and the Musikverein (Vienna Philharmonic Orchestra).

The highlight of this tour is an interior visit of the famous Schoenbrunn Palace with its lavishly decorated rooms shows the glamour of past times. Schoenbrunn was the former summer residence of the Habsburgs. It was built by Leopold I, the grandfather of Maria Theresia after plans of the famous architect Johann Bernhard Fischer von Erlach. Leopold I died before the palace was finished in 1705. Further considerable changes were made 1744 -1749 by Nikolaus Pacassi.

The palace has remained substantially unchanged since Maria Theresia. Until 1918 it was, together with the Hofburg, the principal seat of the Holy Roman Empire and subsequently that of the Austrian Emperor. Napoleon had his headquarters in Schönbrunn in 1806 and 1809. His son, the Duke of Reichstadt (known as „L'Aiglon“) died here in 1832.

TRANSPORTATION FROM AND TO THE AIRPORT:

The fastest way to get to the conference venue is to take the CAT (City Airport Train), it will take you in 16min from the airport to the city.

www.cityairporttrain.com.

Arrival by car:

Please note that the entire first district and all bordering districts are short-stay parking areas to which the following rules apply:

- Parking charges: Monday to Friday 9:00 a.m. - 10:00 p.m.
- max. parking period: 2 hours

Airport-Taxi: www.flughafentaxi-wien.at

TRANSPORTATION FROM HOTEL TO CONFERENCE VENUE

If possible take the public transportation and enjoy walking through the City of Vienna.

Different types of tickets are available and if you like you can purchase your ticket online.

www.wienerlinien.at