

4th World conference on Explosives & Blasting Techniques

9th - 11th September
Vienna, Austria
The Hilton Vienna

PRESIDENT'S FOREWORD

The European Federation of Explosives Engineers invites you to attend the 4th EFEE World Conference on Explosives and Blasting, which will be held in Vienna, Austria, on the 9 - 11 September 2007 at the Hilton Vienna Hotel.

The 2007 Conference follows the successful events organised by EFEE, held in Munich, Germany in 2000, Prague in the Czech Republic in 2003 and Brighton, England in 2005.

EFEE are changing the format for the Vienna Conference with registration, workshops and the welcome reception taking place on Sunday, followed by the presentations and the exhibition on Monday and Tuesday.

65 papers have been submitted for presentation, including papers on fragmentation, vibrations, detonators, demolition and health & safety. There will also be a simultaneous translation service for English/German and German/English. This year's conference is expected to attract between 400-500 professionals from the International Blasting Community. Over 50 Nations worldwide will be represented making the 4th EFEE World Conference the ideal forum to network and research emerging markets.

The Conference will attract explosives users, manufacturers of explosives, accessories and drilling equipment, researchers and professionals involved in all aspects of explosives, development and usage.

One feature of the EFEE Conferences is the exhibition, where many of the World's major producers will be displaying their products, equipment, blasting tools and techniques.

There will also be a strong emphasis on environmental consideration and health and safety requirements covering all facets of explosives engineering.

This year we have 50 exhibitions booths. Companies represented include: Austin Powder, Instantel, Lubrizol, MREL and Orica.

Vienna is one of the most beautiful and picturesque cities in Europe. Established since the 13th century it is filled with romantic history, wonderful architecture and classical music. Vienna also has a wealth of fine restaurants and coffee shops for you to immerse yourself in the sweet life of Vienna.

The Conference gives delegates an excellent opportunity to view the latest innovations and technologies, and provides a great opportunity for networking, developing international business links or just catching up with old friends.

I look forward to seeing you in Vienna.

Roger

Roger Holmberg
EFEE President



EFEE

www.efee.eu

Committee Members:

Technical Committee

Peter Moser, Austria (Chairman)
Finn Ouchterlony, Sweden
Gerhard Reichholf, Switzerland
Jose Sanchidrian, Spain
Jerry Wallace, USA

Conference Committee

Heinz Berger, (Chairman)
Mark Hatt
Roger Holmberg
Donald Jonson
Jørgen Schneider
James Tyler

Registration:

The conference registration includes admission to all technical sessions, the exhibition, a copy of the printed proceedings and admission to the welcome drinks reception.

The registration fee is €642 inc vat for “early bird registrations” (All participants including authors are expected to pay the full registration fee). This fee can be reduced to €555 for all delegates representing a registered company providing that we can validate that your company is legitimate. To enable us to do this we will need your VAT number if your company is registered within the European Union. If your company is outside the European Union (e.g Australia, USA) we will need your VAT number and proof of your company registration faxing to 00 44 1509 234 911. (Please note if we are not able to validate your company details we will have to charge the full delegate fee of €642)

To take advantage of the “early bird” registration, please register before the 14th July using one of the following methods:

Preferred method: On-line at www.efee.eu

Click on: “**VAT registered delegate**” if you are representing a VAT registered company
“**Non-VAT registered delegate**” if you are not from a VAT registered company

By Fax: complete the registration form and fax back to 00 44 1509 234 911

By Post: complete the registration form and post to EFEE, Hoton Hills Barn, 82 Loughborough Rd, Hoton, Leics, LE12 5SF, UK

Schedule of Events:

9th September Sunday

12.00 – 23.00 Exhibition set up
12.00 – 18.00 Conference registration
14.00 – 17.00 Vibration & Demolition Workshop
18.00 – 19.30 Welcome drinks reception & opening speeches

10th September Monday

07.30 – 12.00 Conference Registration
08.30 – 17.00 Technical Sessions
09.00 – 17.00 Exhibition
19.30 – till late Gala Dinner

11th September Tuesday

09.00 – 17.00 Technical Sessions
09.00 – 17.00 Exhibition
17.00 Conference Closed

Workshop: Vibration and Demolition

There will be a workshop offered on Sunday afternoon from 14.00hrs to 17.00hrs on European vibration standards and practice and explosive demolition. The workshop will cost €120 for non EFEE members and €60 for EFEE members. The workshop will be conducted in the English language only.

Part 1: Vibration and Airblast Standards

Germany & Austria: Rolf Schillinger, BlastCom GmbH
Sweden: Donald Jonson & Roger Holmberg,
Orica Mining Services / Nitro Consult
UK: Robert A Farnfield, Exchem Explosives

Each presenter will present the current vibration and airblast standards for their country and the scientific basis for these standards. There will also be examples of infrastructure projects where it is visualized how the vibration and airblast standards are applied, how blasters comply with the limits and how the limits have affected the blasting operations. Following the presentations there will be an open discussion.

Part 2: Demolition

Denmark: Jørgen Schneider,
Orica Mining Services
UK: Mark Hatt, WJ Hatt Ltd.

In this part of the workshop there will be two 30 minutes presentations about typical procedures of demolition blastings for high rise buildings, complicated structures, steel cutting, chimneys and miniblasting. Views on Safety and Public relations are also discussed. Following the presentations there will be an open discussion.





Exhibitors:

A 1000sq m trade exhibition is being held in conjunction with the conference. Exhibits will provide an ideal opportunity for users of explosives, consultants, suppliers and manufacturers to demonstrate their latest developments to a wide cross section of the industry. Please email efee@tylerevents.co.uk for further information on exhibiting.

Please visit www.efee.eu for a full list of exhibitors, below is the current list.

3M, AP Deutschland, Advance Explosive Demo, Austin Powder, B Carr, Croda, Expancel, Filipac, Instantel, ISEE, Lubrizol, Maxam Europe, MREL, Mocap Ltd, NOMIS, Orica, Potters Europe, Projectos Mineros, Sandvik, Tread, Valeron, Vibrock White Industrial

Accommodation:

Accommodation will be at the Hilton Vienna Am Stadtpark, this is located in the centre of the city adjacent to the popular Citypark "Stadtpark". St. Stephen's Cathedral, the Vienna State Opera and the shopping districts are only a 10 minute walk away.

The group bedroom rate is €180.00 Single Occupancy and €190.00 Double Occupancy Bed & Breakfast. Accommodation reservations can be made with your conference registration at: <http://www.efee.eu>

Although we will make a reservation for your accommodation payment must be made on departure. Bedroom reservations are made on a first come first served basis. We would therefore recommend you complete your registration as soon as possible.

Welcome Drinks Reception:

This will be held on the Sunday evening from 6.00pm at the Hilton Vienna and will mark the opening of the conference. The cost of attending is included in your delegate fee and additional tickets can be purchased for your partner.

Gala Dinner:

The Gala dinner will be held on Monday evening the 10th September in the Klimt Ballroom at the Hilton Vienna. This will be followed by Viennese entertainment. This event is always a highlight of the conference so please book early to avoid disappointment.

Vienna Information:

There is much to see: From Gothic St. Stephen's Cathedral to the Imperial Palace to the Art Nouveau splendor of the Secession, from the magnificent baroque palace Schönbrunn to the Museum of Fine Arts to modern architecture at the MuseumsQuartier. Visit the Spanish Riding School in Vienna with its famous Lipizzan ballet that can be experienced live in the baroque ambiance of the Imperial Palace. Admire riding skills of the highest order – from pirouettes to caprioles.

Further information regarding Vienna can be found at www.efee.eu or www.wien.info. On this site it is possible to book individual sightseeing tours, the opera, the Spanish Riding School or visit many other attractions.



Romantic Nostalgia
& Modern Hype
Vienna waits for you...

Partner Programme:

Monday 10th September - Schönbrunn Palace
55 Euros per person

Enjoy a full day's tour to the former Empress Sisi's summer residence the Schönbrunn Palace which is considered one of the most beautiful baroque palaces in Europe. This baroque complex contains an enchanting park, the Palm House, the Gloriette and a zoo. Spend an entire day at Schönbrunn: visit the show rooms with a "Grand Tour with Audio Guide," admire the splendid Bergl Rooms, and stroll through the "Labyrinth."

Places on the partner programme can be booked as part of your registration at www.efee.eu . Once you are on the website please follow the conference link.

How to get there:



Austrian, Austrian arrows and Lauda are the official carriers for our event. They offer the most frequent flights to and from Austria.

Please contact your nearest Austrian Airlines office or travel agent where you will receive information on flights and fares.

As a participant of the 4th EFEE World Conference, September 9th-11th, you and one accompanying person will benefit from a favourable congress fare on Austrian, Austrian arrows and Lauda flights*.

Please identify yourself as participant by presenting your registration and referring to the code: **EFEE7**

If your ticket is issued at a travel agency, please ask your agent to contact his Austrian Airlines office.
*excluding certain reduced and action fares

Participants from the USA please contact exclusively:

Lyon Travel
999 Putney Road, P. O. Box 6179
Brattleboro, Vermont 05302-
Toll Free Telephone Number: 800-639-3849
General Office Tel.: 1-802-254-6033
Fax: 1-802-254-6123

Transfers



www.cityairporttrain.com

The quickest transfer from the airport to the Hilton hotel is by the CAT Airport Train which leaves every half hour from the airport to the city center (Landstrasse/Wien Mitte) the ride lasts 16 minutes and the station is opposite the Hilton hotel single ride €8.00, round trip €15.00. Tickets can be bought in the arrival hall at Vienna airport.

By taxi the journey will take approximately 30 minutes from Vienna airport at an estimated cost of: €38.00



We would like to personally thank our sponsors for their continued support in enabling us to enhance this event.

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Technical Papers

Here is a sample of more than 60 papers scheduled for presentation. The Conference will attract explosives users, manufacturers of explosives, accessories and drilling equipment, researchers and professionals involved in all aspects of explosives, development and usage.

Blast fragmentation

Monitoring the blast fragmentation at Atik copper mine

Optical sizing of blasted rock: Lessons Learned

Strength and Micro-structural Characteristics of Rocks and enhanced Fragmentation in Blasting

Desktop evaluations of the Hybrid Stress Blasting Model (HSBM)

Blasting against confinement, fragmentation and swelling in model scale

Cavity expansion energy applied to rock blasting

3D Stereophotogrammetry for blast design and control

Prediction and assessment of fragmentation during ring

On the influence of powder factor on excavators productivity

Fragmentation energy in quarry blasting

Blast vibration

Prediction of ground vibration in some Iran's iron mines with ANFIS method

Blast Induced Micro-meter Response of Cracks in Concrete Block Structures

Assessment of Safe Ground and Structure Vibrations from Blasting

An example of preliminary seismic survey to evaluate the feasibility of blasting works in proximity of a sensitive monument

Introducing a Uniform Vibration Management System for Underground Mines Adjacent to Open Cut Operations

Safe Blasting Near the Historical Caves of Tourah, Cairo, Egypt

Measurement of Blasting Seismic Effects during the Excavation of the Frukov Krc Tunnel

Comparison of different methods of measuring and evaluating blast vibrations in rock masses

Ground vibration and air over pressure study during deep hole blasting for safe guarding chrome ore plant and dwellings - an Indian case study

Close range measurement of blast vibrations from the cut phase of a small scale tunnel blast

Advanced vibration management in quarries using a predictive blast vibration model

Comparison of vibration levels from drill & blast work and mechanical excavation of tunnels with road headers

Critical investigation into the drilling and blasting work done at the "Mor-mont" quarry in order to reduce blast vibrations

Blast Experience

Final breakthrough from the outside of the cooling water tunnel remote-controlled drilling and loading at 80 metres below sea level

A study on tunnel excavation method using notch hole for vibration and overbreak control in rock mass

Review of damage evaluation techniques for surface and underground mining

Blasting with air decks in the bottom of blast holes

Operational excellence in surface rock blasting

Quarrying by explosive and diamond wire in hard dimensional stones

Demolition

The "slicing and blasting" demolition method for civil buildings: conditions for application, design criteria and practical advices, in the light of the analysis of actual cases

Demolition by explosives of reinforced concrete chimneys by means of steel hinges

Explosive Demolition, Stacks & Silos at Lakeview Generating Station, Port Credit, Ontario, Canada

Sprenghausbruch eines Wohnhochhauses mit angelegten Ladungen

Explosive Demolition of Composite Steel/Concrete Framed Structures

Electronic detonators

Electronic Initiation Technique - State of the Art and Application in Austria

An attempt to understand the contribution of the electronic detonator to the quality of the production blast. Application to quarrying operations in Belgium.

New DNA Blast software, (And you design a successful blast ten times faster)

An evaluation of the use of precise short delay periods on fragmentation results in various rock types

Electronic Blasting for road construction in urban environment : how to control the frequency content of blast vibrations with electronic detonator

Three Gorges Cofferdam demolition using electronic initiation

Explosives

Large Scale Testing of Ammonium Nitrate

Research of the influence of thickener Guar M-207 over water resistance of water filled explosives with secondary smokeless powders as sensitizer

Examination of the dependence between the detonation velocity and content of oxygen of roughly dispersed ammonites

Cylinder test for emulsion explosive

A numerical simulation of Davis EOS of detonation product behind two head-on colliding detonation waves

A new reaction rate model for simulating the detonation process of the insensitive high explosives

Adverse Effects of Dynamic Shock Waves on Emulsion Explosive Sensitizers

Health, Safety and Environment

A new approach to design the artificial detachment of snow avalanches

Influence of the oxygen balance over the blasting chemical reaction during the examination of explosives according to the new requirements of the EC

Studies on Flyrock at Soapstone Quarry for safe working

Advancing Public Relations Through Simplifying Communication

Training criteria for engineers involved in blasting operations

Decontamination of military ranges and battle fields - development of technologies and management toolbox

Northern Link - Tunnel blasting in environmental sensitive surroundings

Economical aspects on contamination levels in blasted material with SSE in tunnel operations

European Explosives Qualifications - The EU Excert Project

A Control Measures Based Approach to Risk Management

Please note all details are correct at time of going to press.



Registration Form:

First Name: _____ Surname: _____
 Company: _____
 Address: _____
 Town: _____ City: _____
 County / State: _____ Country: _____
 Post / Zip Code: _____ Phone (incl codes): _____
 Fax : _____ e-mail: _____
 Spouse / partner name: _____ VAT Registration Number(s): _____

Conference Registration	Quantity	VAT Registered Delegate	Non-VAT Registered Delegate	Total
Early Bird Conference registration before 14th July (Incl. admission to all sessions, exhibition, copy of printed proceedings & welcome reception)		€555	€642	
Full Conference registration after 14th July		€600	€697	
Sunday workshop on Vibration & Demolition: EFEE Member _____ (please insert membership number) Non EFEE Member		€50 €100	€60 €120	
Additional copy of the printed proceedings		€80	€80	
CD-Rom of full proceedings		€55	€66	
Special Events Welcome reception Sunday 9th September, additional tickets (Included in Full Conference Registration Fee)		€17	€20	
Gala Dinner including 1/2 bottle wine and entertainment Monday 10th September (not included in the full registration)		€66	€66	
Social and Ladies Programme, Tours Visit to the Schönbrunn Palace		€55	€55	

Full payment is required to confirm your conference registration and hotel booking

Amount Due:

Accommodation Arrival and Departure Dates:

Arrival Date: _____ Departure Date: _____ No. of nights: _____

Accommodation must be paid to the hotel on departure. Once this reservation has been made if you decide to cancel you will be liable for cancellation charges.

Bedroom Type: Single Twin Double

Payment Information:

Full payment must be made for your registration to be processed. Payment can be made by either a cheque drawn on a UK bank and made payable to "Tyler Events Ltd" or by credit card. All amounts are in euros, an invoice will be issued once payment has been received.

Total Payment Due: _____

Cheque enclosed MasterCard Visa American Express Switch / Cirrus

Name as it appears on the credit / debit card: _____

Credit/Debit Card Number: _____ Expiry Date: _____ / _____ Start Date: _____ / _____

Issue Number (if applicable): _____ Card Security Number: CVV (last three digits on the signature strip): _____

Signature: _____ Name: _____ Date: _____

Cancellations:

The registration fee will be refunded (with a deduction of 10% to cover the handling costs) if notification is received in writing before the 5th August 2007. No refund will be granted after this date.

Address for Information

EFEE

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