

General Information EFEE

European Federation of
Explosives Engineers

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EFEE Objectives

- -promotion of standardisation and harmonisation of explosives training in Europe
- -promotion of explosives technology in all fields related to this technology
- -the issue of a European shot firing certificate
- - SHE and Security in the field of explosives technology
- -to foster the image of the profession, as well as good relations and co-operation with related associations
- collaboration on regulations for the transport of explosives by road

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EFEE

- Founded in Aachen October 20th, 1988, with five countries: Switzerland, Germany, Finland, Netherlands and UK



- Registered i Switzerland

EFEE – Website

www.efee.eu



European Federation of Explosives Engineers
Europäischer Sprengverband
Fédération Européenne des Spécialistes du Minage

EFEE HOME

- Objectives
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- Organisation
- Member Nations
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- Constitution
- Newsletter

MEMBERSHIP

- Individual
- Company / Organisation
- National Society
- Student Members
- Members service

EFEE CONFERENCE

- Call for papers
- Proceedings for sale
- Conference Homepage

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Welcome to EFEE

EFEE was founded in 1988, and has 25 member nations. Its purpose is to provide a European forum for professionals working in the field of explosives techniques in rock.

In 1998, EFEE started issuing European Shotfire Licences based on existing national licences in the member nations. The aim is to enable this category of professional engineers to apply for jobs outside their own countries without time-consuming delays in obtaining appropriate permits.

EFEE is strongly involved in current discussions concerning EU working standards in this fields.

[Date for the diary](#)

**6th EFEE WORLD CONFERENCE
CORINTHIA HOTEL**

LISBON
18th - 20th September 2011

EFEE Secretariat Roger Holmberg

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www.efee.eu

Student Competition [Read more »](#)

EFEE is a proud partner of EUExcert



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Members

- National associations, companies and individuals with legitimate relation to explosives and blasting technique can apply for EFEE membership.
- The National Members are the platform of EFEE. Today EFEE have 25 National members. Each member nation has a representative in the Council. More than one organisation from the same country can be represented in the Council but only the first adopted National member can have a vote.
- 2011 EFEE has 15 company members and 53 individual members.

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EFEE reaches many shotfirers!

- The National Members are associations operating in their own countries with workshops, seminars and conferences.
- It is estimated that EFEE through their National members reach some 80,000 Shotfirers.

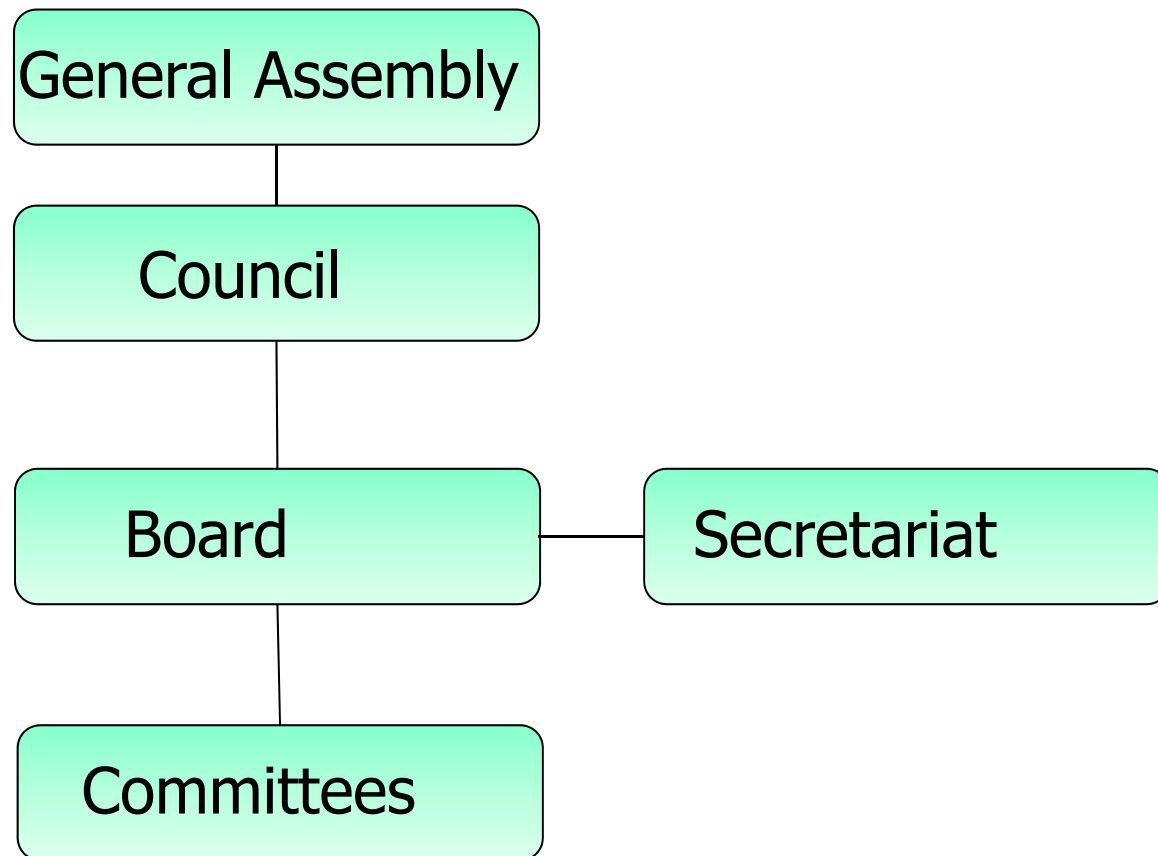


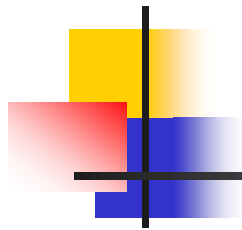
25 National Members

**AUSTRIA
BELGIUM
BULGARIA
CZECH REPUBLIC
DENMARK
ESTONIA
FINLAND
FRANCE I
FRANCE II
GERMANY
HUNGARY
KAZAKHSTAN
LIECHTENSTEIN**

**NETHERLANDS
NORWAY
POLAND
PORTUGAL
RUSSIA
SLOVENIA
SLOVAKIA
SPAIN
SWEDEN
SWITZERLAND
UK
UKRAINE**

Organisation





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Committees

- ❖ **CONSTITUTION AND BYLAWS** – Vegard Olsen
- ❖ **SHOTFIRING** - Karl Kure
- ❖ **CONFERENCE** - Heinz Berger
- ❖ **MEMBERSHIP AND MARKETING** – Jörg Rennert
- ❖ **EU DIRECTIVES** - Predrag Šinik
- ❖ **NEWSLETTER** - Johan Gjødvard
- ❖ **ELECTION** – Walter Werner
- ❖ **FINANCE AND AUDIT** – Walter Werner
- ❖ **ENVIRONMENTAL** – Vegard Olsen

Conference Committee



EFEE World Conferences on Explosives and Blasting

- 2000; Munich – 1st EFEE World Conf. on Explosives and Blasting
- 2003; Prague – 2nd
- 2005; Brighton – 3rd
- 2007; Vienna – 4th
- 2009; Budapest – 5th
- 2011; Lisbon – 6th
- **2013;** Moscow – 7th
- ***Workshop***
- ***Technical Papers - ~ 60 selected by the EFEE Technical Committee***
- ***Exhibition >40 exhibitors***

Conference Committee



EFEE World Conferences on Explosives and Blasting

- **Lisbon 18 -21 September, 2011, Portugal**
 - EU Directives and Harmonisation Work
 - Health, Safety and the Environment
 - Technical Development
 - Shot Hole Development
 - Blasting Covering Experiences from Projects
 - Clearance & Decontamination of Deserted Plants Areas
 - Management Covering Blast Design
 - Explosive Detection for Security
 - New Applications & Training
 - Education and Vocational Training

Membership and Marketing Committee



- Membership Applications
- Criteria for grants to students participating in EFEE Word Conferences with papers of Blasting Technique.
- Student award.
- Two papers were selected for presentaion at the Lisbon Conference.

Membership and Marketing Committee



Ana Rita Farinha

Born; 1981

PhD Student in Mechanical Engineering

**Departamento de Engenharia Mecânica - Rua Luís Reis dos Santos Pólo II
da Universidade de Coimbra, Portugal**

**Prizes received; Best Poster in Conference "Materials 2007" of Portuguese Society of
Materials**

ABSTRACT: Explosive Densification of Metal Powders.

Viktor Zhulickov

Born:1989

5th year student

Moscow State Mining University, Moscow, Russian Federation

**Prizes received; 2nd place at the Russian Conference – Competition of Students 2010 in
St Petersburg.**

ABSTRACT: Mathematic Model and Software for the Bench Blasting.

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EU Directives Committee

- ***Guard EU directives***

- *EU Action Plan for enhancing the security of explosives, precursors and detonators*
- *Transport of dangerous goods by road*
- *2008/43/EC - Identification and traceability of explosives for civil uses.*
- *Council Directive 1993/15/EEC of 5 April 1993 on the harmonisation of the provisions relating to the placing on the market and supervision of explosives for civil uses.*
-

Shotfiring Committee

EFEE Shotfire Certificates

Y 1998; EFEE starts to issue an European Shotfirer Certificate based upon National Certificates in EU-countries

The aim is;

- a) Short term: Enhance mobility in EU
- b) Long term: Harmonise education of Shotfirers in Europe

Y 2004; EFEE-demands established for basic education to achieve a European Shotfirer Certificate for Rock Blasting

Y 2006; EFEE- demands established for basic education to achieve a European Shotfirer Certificate in Demolition Work

Shotfiring Committee

EuExcert

- The European co-operation grows. KCEM (Kompetenscentrum för Energetiska Material) year 2003 took the initiative to an European project regarding competence, education and training for employed people working in the explosive sector. Project title was EUExcert.
- Background was- restructuring of explosive sector, business declines and retirements to occur in near future in the European explosive sector
- A Leonardo da Vinci-project

Shotfiring Committee

EuExcert

- EUExcert I and II . 2003-2009
- Aims
 - Define an educational- and competence program.
 - Approve quality of existing educations
 - Visualise the use of modern educational methods
 - Approve the competence of people in the explosive sector
 - Strengthen the European explosives industry

Shotfiring Committee

EuExcert III / EUExNet

- EUExcert partners proposed a new Leonardo da Vinci-project aiming to establish an European association and network of independent national bodies, assumed to receive a license to use the EUExcert logo for certification of explosives competence
- KCEM was approved to be sponsored to create the network EUExNet. KCEM will as project leader assist work by partners from Czech Republic, Estonia, Germany, Italy, Latvia, Lithuania , Malta, Norway, Portugal, UK and Sweden
- EFEE is a Partner
- EUExcert will through EuExNet continue to work with the harmonisation of certificates visualising competence in explosives to be acknowledged within and outside EU.

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Shotfiring Committee

- A Leonardo da Vinci project
- **ESSEEM – European Shotfirer Standard Education for Enhanced Mobility**
- Establish basics for European demands on Shotfirers. Develop a platform of demands to be harmonised in order to enhance the mobility in EU.

Shotfiring Committee

ESSEEM – Project

- **WP.1 Basic Geology with Introduction to Minerals**
- **WP.2 Drilling methods and commonly used machinery**
- **WP.3 Construction materials**
- **WP.4 Explosives and their main characteristics**
- **WP.5 Initiation systems**
- **WP.6 Blasting theory**
- **WP.7 Structures and Demolition.**
- **WP.8 Suitable explosives and detonating systems for bench blasting**
- **WP.9 Blasting in sensitive areas**
- **WP.10 Safety aspects for Rock blasting and demolition work.**
- **WP.11 Commercial aspects - Cost estimation (Rock blasting and Demolition)**
- **WP.12 ESSEEM Project Management (& Dissemination)**
- **WP.13 Harmonisation and dissemination**

Shotfiring Committee

ESSEEM - Partners

- Norsk Forening for Fjellsprengningsteknikk NFF Prosjekt - Norway
- KCEM (Competence Centre for Energetic Materials) - Sweden;
- Kure Fjellsprengningsteknikk - Norway;
- LEDAP (Laboratório de Energética e Detónica) University of Coimbra, Portugal
- Dresdner Sprengschule - Germany
- Orica Mining Services - Norway/Germany
- IEM (Institute for Energetic Materials) University of Pardubice - The Czech Republic
- Werner Sprengtechnik - Germany
- Sandvik Mining and Construction - Finland
- EFEE (European Federation of Explosives Engineers)
- ISEP (Instituto Superior de Engenharia do Porto) - Portugal
- Bransjerådet (Trade Council Blasting) - Norway

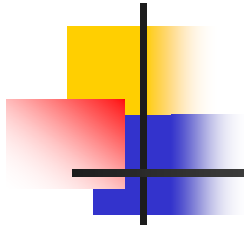
Shotfiring Committee

ESSEEM - Project

- This produced version of the training means is so far only worked out in the English language
- The final goal for the EFEE works however is to have a version of the training means written in every one of the many languages in Europe.
 - 1) The training means worked out by the ESSEEM project has to be translated into every European language.
 - 2) The framework, the duration of the training courses for rock blasting technique and for demolition blasting technique have to be developed.

Shotfiring Committee

- The Council meeting 2011-09-17 decided on request from the Committee that:
 - The Norwegian Association will try to find a Project leader who can drive the work further.
 - A steering group will then be established and help the Project leader in his work:
 - An application to the EU Commission will if so be worked out to get money for translation and implementation to our EFEE member Nations



Thanks for your attention

