

NEWSLETTER

October 2009



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Dear EFEE members

The last EFEE Council was held in Paris, October 2009. Sixteen delegates representing seventeen national members attended the meeting. Prior to the council meeting the participating delegates held meetings in the various EFEE committees.

The main topic on the council where the constitution and by-laws modifications, the shotfires in EU, the EU-Directives, results of the 5th EFEE Conference held in Budapest 2008 and the ESSEEM project.

The number of official languages for meetings and documents and the voting system were the main subjects of discussion concerning by-laws and articles. There were several contributions to the constitution draft, which will be used for an upgrade; which will be submitted, at the next council. Hereby the next election to President, Vice-President, Treasurer, Board Members and Audit Committee will be carried out accordingly to the new voting system.

The vocation training of EU shotfire and the participation of experts from EFEE in the next meeting of ESSEEM project (European Shotfirer Standard Education for Enhanced Mobility) in Koln in December were discussed. It was discussed to apply for a new project under LdV programme to continue ESSEEM project. Future partners are welcome. The issue of shotfire certificate is moving forward, with more 17 shotfirer certificates issued so far in 2009.

Next Council meeting and General Assembly will be in spring 2010 in Kiev.

José Carlos Gois, EFEE President

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The EFEE-Newsletter [\[BACK\]](#)

This issue includes information about:

- A new EFEE initiative. Encouraging students to pay interest to the field of explosives, the upcoming EFEE conference in Lisbon 2011, will launch a student competition, read more below.
- A presentation of the second French organisation, SYNDUEX, for explosive engineers to join EFEE.
- A presentation on the study of the environmental impact from the use of industrial explosives.
- And notifications about the upcoming events in the world of explosives.

In the next issue of the EFEE-Newsletter, there will be a report from the Work Group for Explosives for Civil Use in Brussels in October 2009, where EFEE was represented.

We in EFEE hope you enjoy the present EFEE-Newsletter, and will read the next edition which will be published in May 2010.

Johan Finsteen Gjørdvad, Chairman of the Newsletter committee and member of the board

EFEE Student membership and competition [\[BACK\]](#)

EFEE is opening up for student membership while at the same time launching a student competition for the EFEE conference in Lisbon 2011; where the winners gets their trip, accommodation and conference admission paid.

At the EFEE Council meetings in Budapest and Paris it was decided that students should be able to register as an EFEE Student Member for a modest fee and that EFEE will aim to attract students to participate in future EFEE conferences.

A student competition will be declared and the students can apply for participation in a contest by sending in a recommendation letter from their university together with a paper they would like to present at the upcoming Sixth EFEE World Conference on Explosives and Blasting in Lisbon 2011. The basic criteria for selection of the students, who will be able to participate in the EFEE Conference without paying, any fees will be:

- Academic merits or similar
- Qualifications of the candidates and their previous experience in the field of Explosive and Blasting Technique
- Actuality of the article they would like to present during the conference.

The full application procedure and acceptance criteria will be announced in due time at the EFEE website www.efee.eu.

Roger Holmberg, EFEE Secretary and member of the board

SYNDUEX joins EFEE [\[BACK\]](#)

The European Federation of Explosive Engineers strengthens its European connection.

SYNDUEX – National Syndicate of Public Works Businesses Specialising in the Use of Explosives – was created in 1990 and is affiliated to French Federation of Public Works. It represents around 40 companies which account for a large part of explosives consumption in public works activity in France.

Synduex aims at promoting the activity of drilling and mining and defending the interests and distinctive features of our profession.

Since its creation, it has worked to promote industrial explosive-related trades, know-how and usage. The syndicate's « technical excellence » initiative covers a range of issues from the study of detonation smoke, vibration management, aquatic mining, demolition work involving explosives...

We also represent our companies before national institutions for explosives matters such as regulation, training and technical information and environmental matters. Many actions have been implemented with GFEE, also member of EFEE, for several years. In joining EFEE, we hope to develop our action on various subjects at the European level.

Jean-Pier Marchel, SYNDUEX (FRA) envoy to EFEE

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ENVIRONMENTAL IMPACT OF INDUSTRIAL EXPLOSIVES

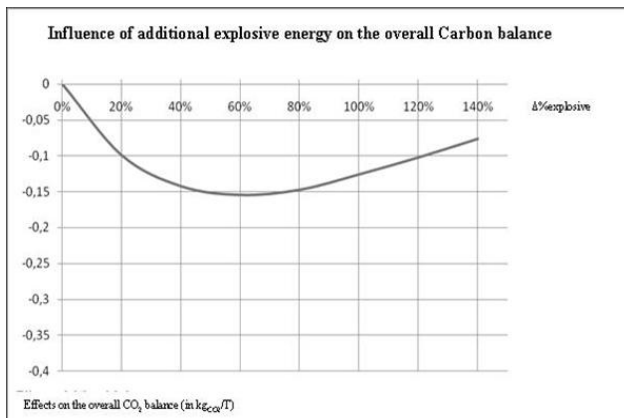
IN QUARRIES AND PUBLIC WORKS *CARBON AND ENERGY BALANCES: A NEW STUDY BY SYNDUEX* (www.synduex.com) [\[BACK\]](#)

The growing awareness of environmental issues, the introduction of new regulations designed to limit and reduce the impact of industry on our environment have led to the integration of a new criterion when selecting methods and tools: impact on the environment.

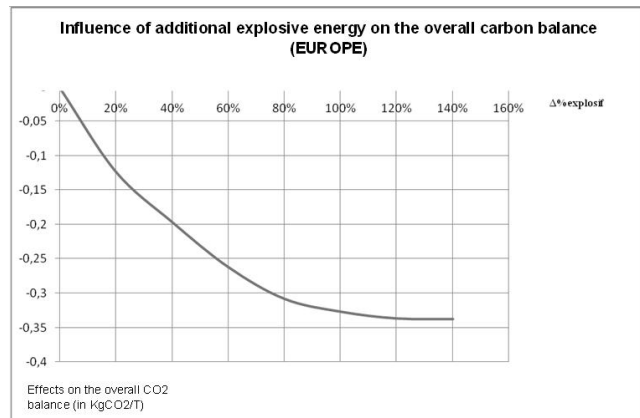
Industrial explosives, prized for their power, efficiency, very high production yield, low cost are the tool of choice for quarries and earthworks companies worldwide. But how do they rate in relation to this new ecological criterion? It's why SYNDUEX commissioned a study to define the environmental impact of explosives and measure their efficiency in terms of CO₂ emission.

This carbon footprint study of quarries and public utility mines found the greenhouse gas contribution of the explosives to be very weak compared to all emissions coming from a quarry or a public utility mine.

Extracting a tonne of hard granite from a quarry generates an average of 3.53 kg CO₂ (4.87 in Europe due to the methods used for producing electricity) and consumes 44.54 MJ. For extracting a tonne of hard limestone, a quarry produces an average of 3.33 KgCO₂ (4.26 in Europe) and consumes 38.58 MJ. For a public utility mine, CO₂ emissions rise to 3.58 kgCO₂ per tonne at most and consume 55.6 MJ. From a greenhouse gas point of view, mining and well drilling contributes less than 10.5% of CO₂ emissions and explosives 2.5%. From an energy point of view, mining and well drilling does not go beyond 6.5% of consumption and explosives represent less than 1.5% of the energy used.



Impact of additional explosive energy (EUROPE)



Impact of additional explosive energy (FRANCE)

The study emphasises the idea of beneficial energy. In this way, for the particular situation of increasing the explosive energy by 50%, estimations indicate that there is a 4-6% reduction of global CO₂ emissions for both quarries and public works mines.

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In France for instance, increasing the explosive energy by 20 % would reduce global emissions by 0.10 kgCO₂ per tonne, so, for the whole French quarry industry a reduction of 25 million kgCO₂ (0.10*250Mt) by year, equivalent to 166 million km for an average car.

This study is available on request at the address: dupeyronjp@fnfp.fr. It was also published in "Travaux" (n°864 – September 2009) and will be soon available on www.synduex.com

Jean-Pier Marchel, SYNDUEX (FRA) envoy to EFEE

IEXPE Conference 20th April 2010 [\[BACK\]](#)

The Institute of Explosives Engineers is holding its Annual Conference in Blackpool, England on 20th April 2010. The Theme of the Conference is '**Explosives Skills**', which will present an opportunity for delegates to discuss and shape new developments in the education and recognition of those who use or have an involvement with explosives.

The morning session will feature a range of speakers presenting case histories of events to facilitate learning, improve safety and share best practice. The speakers are expected to be from the following fields:- Health and Safety Executive; Blasting and Quarrying; Demolition & Re enacting and Pyrotechnics.

The afternoon session will consist of workshops, allowing delegates to discuss issues that affect them or their industry. Key points will then be raised to the entire conference.

Costs: Conference - £50.00, Hotel for Single Room including Breakfast - £85.00, dual occupancy add £15.00 for the second person which includes breakfast. The Conference Hotel is De Vere Herons Reach - <http://www.devere.co.uk/our-locations/herons-reach>

For further details and booking forms please contact The Secretary of the Institute of Explosives Engineers at iexpe@cranfield.ac.uk.

Ken Cross IExpE Envoy to the EFEE Council

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TECHNOLOGY BREAKTHROUGH



A Novel Remediation Approach for Explosive Compounds

Tetra Tech is introducing a new technology which effectively remediates nitroaromatic compounds more efficiently than those methods currently applied on the market. The process has been successfully applied to ex-situ and in-situ soils/sediments and groundwater impacted by this family of contaminants. Removal efficiencies are commonly in the 95% to 99% range. To date, successful large-scale treatment includes TNT, DNT, RDX, and HMX. With some process modifications and enhancements, the technology also could be valuable to the decontamination of other explosives compounds such as nitroglycerin and nitrocellulose.

*Patent - Pending
Treatment Technology for
Explosive Compounds in
Soil and Groundwater
Yields Exceptional Results.*

For more information, contact:

Tanya Sagermann, PE
Regional Manager Europe
+49 (0) 6374 802 388
tanya.sagermann@tetratech.com

Ronnie Britto, PhD
ronnie.britto@tetratech.com



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Ausbildung zum nationalen oder internationalen Großfeuerwerker

Wann 7. - 11. Nov. 09 Modul Österreich
Anmeldeschluss 3. Nov. 09
+ 12./13. Nov. 09 Modul International
Anmeldeschluss 15. Okt. 09

Wo Innsbruck mit Praxisfeuerwerken in O, D, I, Ch

Beitrag 792,- Euro inkl. MwSt. National
1.392,- Euro inkl. MwSt. National + International

Leistungen Ausbildung zum geprüften Mittel- & Groß-
Feuerwerker gem. Pyrotechnikgesetz 74
Seminarvorträge, inkl. Rechtskunde für O, D, I, Ch, Li
behördliche Prüfungen (exkl. Prüfungsgebühren).

Information und Anmeldung
Österreichische Sprengschule
Tel. 0664/ 27 91 389 Fax 03862/ 22846
info@sprengschule.at



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Upcoming events [\[BACK\]](#)

2009	Nov. 12-13	14 th Drilling and Blasting Conference, Pennsylvania, USA	www.outreach.psu.edu
	Nov. 20-21	Hong Kong Tunnel Conference	www.geolsoc.org.hk
	Dec. 3-4	Kentucky Blasting Conference	www.kyblastingconference.com
	Dec. 11	Mining-in-a-day, London UK	www.mining-in-a-day.com
2010	Feb. 7-10	ISEE's 36th Annual Conference on Explosives & Blasting Technique	www.isee.org
	April 13-14	Geodrilling 2010, Peterborough UK	www.geodrillingshow.com
	April 27-28	Russian & CIS Mining Symposium, London UK	www.mining-russia.com
	May 9-12	2010 CIM Conference and Exhibition Vancouver BC, Canada	www.cim.org
	May 14-20	The World Tunnel Congress 2010 and 36th ITA general Assembly, Vancouver Canada	www.ita-aites.org
	June 8-9	EURO Mine Expo 2010, SKELLEFTEÅ, SWEDEN	www.euromineexpo.com
	June 29- July 2	41 st International Annual Conference of Fraunhofer ICT, Karlsruhe, Germany	www.ict.fraunhofer.de
2011	Sep. 18-20	6 th EFEE World Conference, Lisbon Portugal	www.efee.eu

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