

WORKSHOP ON TRAINING IN EXPLOSIVES IN PORTUGAL

Mechanical Engineering Department
Faculty of Sciences and Technology of the University of Coimbra
Pólo II of the University of Coimbra

1 and 2 October 2007

Auditorium of Mechanical Engineering Department

Organisation:



Laboratory of Energetics and Detonics (LEDAP)
Association for the Development of Aerodynamics (ADAI)
Mechanical Engineering Department (DEM)

Objective

This Workshop on Training in Explosives in Portugal expect to be an opportunity for the presentation and discussion on training in Explosives of militaries, security forces, engineers in explosives sector, workers at manufactures and laboratories, dangerous goods drivers, shofire and workers in pyrotechnics and fireworks. Also licensing and inspection activities carry out by public organisations require knowledge and competences in explosives.

The objectives of this Workshop comprise the presentation of the different trainings and methodologies, theoretical and practice, knowledge required, qualifications and competences recognised, refreshment training and previous education required. The purpose of the Workshop is not only to discussion training information, but also provides a space to meet people in the sector and discuss experiences.

The different panels for the Workshop provide the opportunity to discuss in detail the training in the different activities. Each session has at the end a time for discussion within a large group.

How to reach the Workshop

Mechanical Engineering Department is placed in Campus II (Polo II) of the University of Coimbra, about 1 km from the Santa Isabel bridge's at South East direction. People arriving from Lisbon using the route from Condeixa find the bridge on right when they reach the city. People arriving from o Porto must follow the direction of Condeixa, the bridge will appear in the left when the city became in your back.

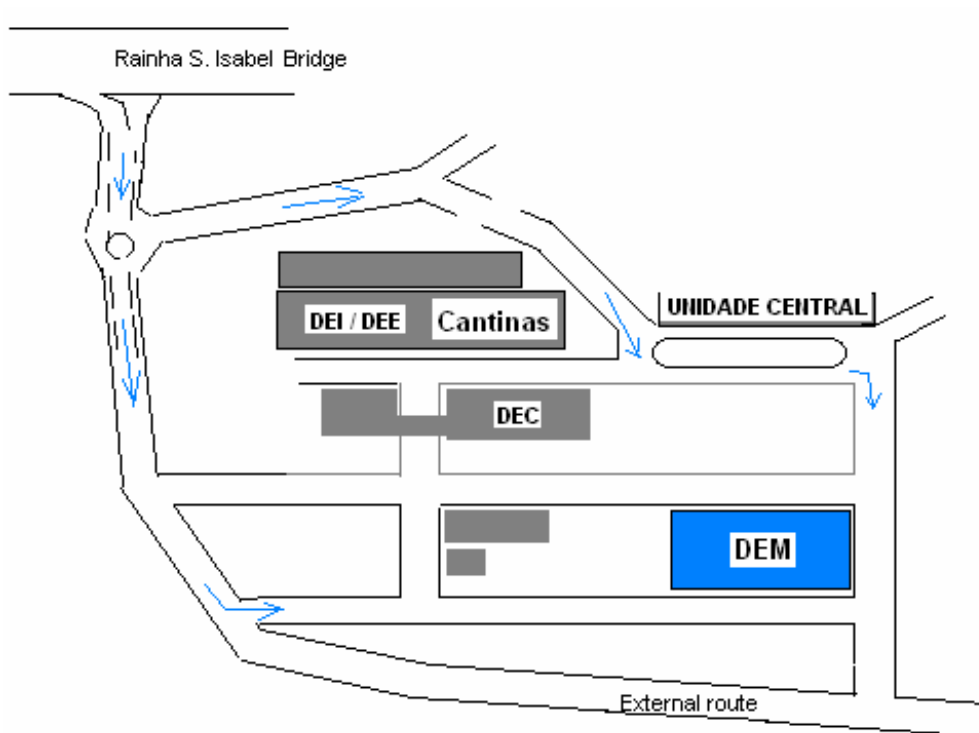
Cross the bridge and turn right to the direction of Pólo II of University of Coimbra. You find a tunnel or a roundabout. Running more 600 meters the Pólo II is reached.

The Mechanical Engineering Department is the building more near South in Pólo II area's.

By bus nº 34 from the Central Station, Largo da Portagem (near Tourism office) or Praça da República (on the high part of city) Polo II can also be reach.

Link to timetable of train:

<http://www.cp.pt/cp/displayPage.do?vnextoid=a4f6f9e12a584010VgnVCM1000007b01a8c0R CRD> (to English please touch the flag in the top)



Hotels

Hotel Astória ***

Phone +351 239 853 020 Fax: + 351 239 826 557

www.almeidahotels.com e-mail: astoria@almeidahotels.com

Hotel Bragança ***

Phone.: +351 239 822 171 Fax: +351 239 836 135

www.hotel-braganca.com e-mail: geral@hotel-braganca.com

Hotel D. Inês ***

Phone: (+351) 239 855 800 Fax: (+351) 239 855 805

<http://www.hotel-dona-ines.pt> e-mail: reservas@hotel-dona-ines.pt

Hotel Tivoli Coimbra ****

Telef.: +351 239 858 300 Fax: +351 239 858 345

www.tivolihotels.com e-mail: htcoimbra@tivolihotels.com

Hotel Quinta das Lágrimas *****

Phone.: +351 239 802 380 Fax: +351 239 441 695

www.lagrimashotels.com e-mail: reservas@quintadaslagrimas.pt

Hotel Tryp ****

Phone: (+351) 239 480 800 Fax: (+351) 239 484 300

<http://www.trypcoimbra.com> e-mail: tryp.coimbra@solmeliaportugal.com

Registration information and payment details

Registration can be carried out at the secretariat by email or fax. The inscription include: participation in the Workshop, lunches, coffee-break, brochure with the abstracts and CD-ROM with the presentations.

Payment can be done by: check or bank transfer to ADAI

Secretariat

António Trindade Email: antonio.trindade@dem.uc.pt
Fátima Guedes Email: fatima.guedes@dem.uc.pt
Tel: +351 239 790732 Fax: +351 239 790771

INSCRIPTION MODULE	Workshop on Training in Explosives in Portugal
<input type="checkbox"/> STUDENTS (25 €) <input type="checkbox"/> SPEAKERS/CHAIRMANS (25 €) <input type="checkbox"/> OTHERS PARTICIPANTS (60 €)	
I would like to participate in the:	
<input type="checkbox"/> DINNER ON 1st OCTOBER (25 €) (Optional)	
NAME _____	
ADDRESS _____	
CODE ____ - ____ _____	
Mobil phone. _____ E-mail: _____	
<input type="checkbox"/> Check. N.º _____, with the amount of _____ to ADAI	
<input type="checkbox"/> Payment by bank transfer to the NIB 0033 0000000 4180463716 (add document of the transfer)	
Receipt in the Name of: _____ N.I.F. _____	
Date ____/____/2007 _____	

1st October

9:30 **Opening**

- Rector of the University
- President of Mechanical Engineering Department

10:00 **Session on Training of Military Forces I**

- *“Management of Competences of People with Activities in Explosives and Munitions”*, Major Carlos Oliveira, Air Forces
- *“The Training for Inactivating Explosives Devices in the Navy”*, Capitão-Tenente Duarte da Conceição, Navy

11:00 **Coffee-break**

11:30 **Session on Training of Military Forces II**

- *“The Training on Explosives in the Military Academy”*, Prof. Doutor João Paulo Sousa and Major de Engenharia Mestre João Rei, Military Academy
- *“The Training on Explosives in the Practical School of Engineering”*, Capitán Vítor Felisberto, Practical School of Engineering, Army
- *“Ignition, deflagration and detonation: problems of research”* Prof. José Campos *et al.*, Departamento de Engenharia Mecânica, University of Coimbra

12:30 **Discussion:**

Chairman: General-Director of Ammunitions and Defence Systems

13:00 **LUNCH**

14:30 **Session on Training of the Security Forces**

- *“The Training of Explosives in the Security Polices”*, Subintendente Luís Ferreira, Centro de Inactivação de Explosivos e Segurança em Subsolo (CIEXSS), PSP
- *“The Training in Explosives of the People in the National BodyGuard”*, Capitão Hélder Barros, Chefe do Centro de Inactivação de Engenhos Explosivos da GNR
- *“The difficulties in the Investigation after Detonation”*, Dra. Algina Monteiro, Forensic Laboratory of Police – responsável pela Área de Química.

16:00 **Coffee-break**

16:30 **Session on Training in Pyrotechnics and Fireworks**

- *“Pyrotechnics products – manufacturing, use and disposal”*, António Rodrigues, ANEPE – National Association of Trade Companies in Explosives Products
- *“Training and Environment: difficulties and solutions?”*, Eng^a Ana Margarida Fernandes and Dra. Margarida Vieira, APIPE – Portuguese Association of Pyrotechnics and Explosives Manufacturers

17:15 **Discussion:**

Chairman: Prof. José Carlos Góis, Departamento de Engenharia Mecânica, University of Coimbra

20:00 **DINNER**

2nd October

9:30 Session on Training in Explosives in Civil Sector I

- “*Training in explosives of the workers at end-users in Portugal*”, Eng. António Vieira, Invited Professor at the Geotechnical Engineering Department of High Institute of Engineering in Porto (ISEP) and engineer at Mota-Engil company
- “*EUEXCERT – Certifying Expertise in the European Explosives Sector*”, Erik Nilson, Director da KCEM (Competence Centre Energetic Materials), Sweden
- “*Harmonisation of Training in Explosives to Recognise Qualifications in Europe*”, Prof. José Carlos Góis; Engineering Mechanical Department, University of Coimbra and Portuguese Association for Studies and Engineering of Explosives (AP3E)

11:00 Coffee-break

11:30 Session on Training in Explosives in Civil Sector II

- “*Developing & Maintaining Skills in the Explosives Sector in the UK*”, Prof^a Jackie Akhavan, Cranfield University, UK Defence Academy, Shrivenham, UK
- “*Proposal of a Master Course in Engineering of Explosives*”, Prof. José Baranda Ribeiro, Engineering Mechanical Department, University of Coimbra

12:30 Discussion:

Chairman: President of the Regional Portuguese Society of Engineers

13:00h LUNCH

14:30h Session on Training in Explosives in Civil Sector III

- “*Safety in the manufacturing of explosives: prevention system at MAXAMPOR*”, Eng. Melão Ribeiro, MAXAMPOR
- “*Education for the Personnel of Explosives Plants, Case of the Short Explosives Safety Course*”, Jorma Karhulahti, Safety consultant, HI-Plan Oy, Finlândia

15:30 Coffee-break

16:00 Session on Training in Explosives in Civil Sector IV

- “*Challenges Concerning Rock Blasting with Explosives – the role of training for shotfire and supervisors*”, Doutor Pedro Bernardo, Expert in Geology of Portuguese Society of Engineers and Commercial Director of SEC - Sociedade de Explosivos Civis, S.A.
- “*Explosives using for the construction of trench*”, Eng. Pedro Coelho, MARSILOP S.A.

17:00 Discussion:

Chairman: Director of National Police

17:30 Closing

With the Secretary of Internal Affairs, Dr. José Magalhães