May 18-19, 2009
Aveiro, Portugal

Armour & security
Armour systems and materials (ceramic, metallic, composite, *etc*.) Counter-terrorism. Blast-wave and ballistic protection. Case studies. Safety engineering.

Innovative technologies
Security and armour technologies. Innovative approaches to body and vehicle protection. Testing and standardization. Numerical approaches.

Armour R&D
New materials and applications for armour. Impact and terminal ballistics. Numerical analysis. Experimental methods. Modelling and theoretical studies.

LWAG 2009 Conference
Security and use of innovative technologies against terrorism

www.lightarmour.org
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With the support of:

LWAG
Light-Weight Armour for Defence and Security

DYMAT

Universidade de Aveiro
Dep. Engenharia Mecânica

CreativeTech
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LWAG The Light Weight Armour Group for Defence and Security started about 8 years ago in Coimbra (Portugal) as a sub-group of DYMAT. In global terms, the subjects of the LWAG are the study of all modern body and vehicle armour and also the study of armour systems as a whole. There have been large developments in both types of armour in recent years and we hope to understand these changes and improve upon them. LWAG is interested in all armour materials such as ceramics, all plastics materials such as polyamides and woven materials, metal matrix composites (MMC), ceramic matrix composites (CMC), metallic foams and other porous materials. It is hoped that via workshops, LWAG can help improve on the design of armour and armour systems as well as explore the use of computer codes, where applicable. It was decided many years ago that the meetings should be informal workshops where there would be formal papers but also time for discussion. We are confident that this conference at Aveiro will be as successful and interesting as previous workshops.

Objectives and topics The purpose of the conference is to present new developments in the context of security and armour systems. The provisional list of topics is as follows: armour systems and materials; defence systems; impact energy dissipation and absorption; blast-wave absorption; ballistic and impact phenomena; innovative technologies against terrorism; impact and terminal ballistics; body and vehicle protection; counter-terrorism; safety engineering; applications and case studies; numerical simulation; modelling and theoretical studies; experimental methods; testing and standardization. For a complete and more detailed list of topics please check the LWAG 2009 Conference web page. It is also a major purpose of the conference to facilitate the communication between specialists interested in fields related to security and armour systems.

Local organizing committee The LWAG 2009 Conference is organized by the GRIDS-DAPS - Division of Armour & Protection Systems:

F. Teixeira-Dias, Chairman (UA, Portugal)
A. Andrade Campos (UA, Portugal)
J. Pinho-da-Cruz (UA, Portugal)
R. Fontes Valente (UA, Portugal)
R. Alves de Sousa (UA, Portugal)
I. Duarte (UA, Portugal)

Scientific committee
B. Dodd (Oxford, UK)
E. Lach (Institute Saint-Louis, France)
S. Walley (Cambridge University, UK)
P. Schulz (LKR, Austria)
F. Teixeira-Dias (UA, Portugal)
F. Coghe (Royal Millitary Academy, Belgium)
A. Torres Marques (FEUP, Portugal)
C. Watson (Cranfield University, UK)
D. Rittel (Technion, Israel)
H. Couque (Nexter, France)
K. Steuer (Saint-Gobain, Germany)

Important dates

Abstract submission	31 Dec, 2008
Acceptance notification	15 Jan, 2009
Final paper submission	15 Apr, 2009

Registration fees Registration fees, with early registration applicable if received before 31 January 2009, are as follows:

Registration	Early	Late
Full	€150	€200
Post-graduate	€85	€120
Under-graduate	€25	€40

Under-graduate registration fee does not include printed proceedings and the conference dinner. All registration fees include a one-year free LWAG membership. Institutions paying for five or more full registrations are entitled to a 5% discount.

Proceedings & publications Conference proceedings will be published in printed form and as a CD-ROM. These will be made available to all registered participants. A short selection of accepted papers may be published in an international journal.

Conference format The conference will last two days during which four invited lectures will be delivered. In each day two invited lectures will be delivered and three 90 minute sessions will take place. Poster sessions may also be organized.

Location The LWAG 2009 conference will be held at the University of Aveiro, Portugal. Aveiro is located on the shore of the Atlantic Ocean and is known for its traditional “egg sweets”. It is sometimes called “The Portuguese Venice” because of its canals and boats, as the city faced similar problems when it tried to conquer the water. The city dates back at least to the 10th century when it was known by its first Latin name of Aviarium, literally, “a gathering place or preserve of birds”. The Moors invaded and then held it until the 11th century, after which it became popular with Portuguese royalty. In the winter of 1575 a terrible storm closed the entrance to its port, ending a thriving trade in metals and tiles. Aveiro is also famous for its production of salt and for its seaweed harvest, which is used for fertiliser in the area.

Social programme A social programme for delegates and accompanying persons will be arranged, including a reception and a banquet at a local place of interest.

Traveling and accommodation Block reservations at preferential rates will be arranged by the organizers. Detailed information will be available in due time on the conference web page.

Contacts For further information please do not hesitate to contact us:

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