

Study of a laboratory scale technique for combined blast and fragment impact loading

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Publication date:
2023

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Document Version:
Final published version

[Link to publication](#)

Citation for published version (APA):
Atoui, O., Maazoun, A., Belkassem, B., Pyl, L., & Lecompte, D. (2023). *Study of a laboratory scale technique for combined blast and fragment impact loading*. Poster session presented at 6th Commission for Scientific Research CWO Poster Session, Brussels, Belgium.

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6th CWO Poster Session

Commission for Scientific Research (CWO)

Royal Military Academy

Technical program

13 Dec 2023 – 1330 Hr - 1530 Hr – Room: Patio Bloc K

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2	C. Ameloot, C. Robbe, A. Papy and P. Hendrick	Air Burst Munitions as a Candidate for Countering Small Unmanned Aircraft Systems
3	C. Robbe, J. Puddu and A. Papy	Comparison of measurement techniques and sensitivity studies using 20% gelatin for wound ballistics
4	O. Mzali, A. Papy and C. Robbe	Numerical simulation of Non - Penetrative projectiles on the human torso
5	A. Andrei, C. Robbe, T. Penders and A. Papy	Development of a new thoracic surrogate for KENLW and BAPT impacts
6	F. Ongaro, C. Robbe, B. Stirbu and A. Chabotier	Numerical Modelling of Internal Ballistics: A Review
7	B. Stirbu, I. Ndindabahizi, T. Vancaeyzeele and C. Robbe	Energy balance model to assess the resistance of ballistic protection materials
8	B. Stirbu, A. Chabotier, C. Robbe and F. Ongaro	From Pressure Measurements to the Gas Temperature and Projectile Velocity Estimation
9	N. Nsiampa and F. Coghe	Validation of an ACH helmet for head injury risk assessment
10	A. Azevedo and F. Coghe	Influence of air-gaps between the torso body armour and the body on the risk on perforation and behind-armour blunt trauma
11	A. Miranda-Vicario, C. Van Holder, I. De Decker and F. Coghe	Development of a prototype bullet resistant implant: application to breast prosthesis
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13	T. Vancaeyzeele, J. Gallant and B. Lauwens	Graphical Processing for Fast Weaponing Evaluations
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15	L.F. Velasco, J.L. Tombeur, P. Lodewyckx and H. Wullens	Sequential Sorption of Toxic Vapours and Gases in Activated Carbon Respirator Filters
16	L. Jeunieau, S. Chanttrin and B. Simoens	Project DETEX: Detection of trace amount of explosives
17	A. Bessegmar-Carrera and L.F. Velasco	Turning humid air into renewable power
18	N. Uyttenhove and R. Van Riet	Attenuated Erosion Propellant
19	P. Melo Bravo and R. Van Riet	Novel energetic materials based on nanoporous carbon
20	F. Halleux, D. Belmehdi, M.H. Lefebvre and R. Van Riet	Detonation performance and detonability of Urea-Hydrogen Peroxide
21	D. Belmehdi, M.K. Boulkadid, M.H. Lefebvre and R. Van Riet	Detonation simulant of TATP as a donor charge in a detonation train
22	L. Masset, B. Belkassam, F. Fasseur and D. Lecompte	Pyroshock Qualification of Aerospace Components

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24	M. Ben Rhouma, A. Aminou, B. Belkassem, T. Tysmans and D. Lecompte;	Blast Performance of Low-Density Foam Wrapped Aluminum Columns
25	A. Aminou, M. Ben Rhouma, B. Belkassem, L. Pyl and D. Lecompte	Blast Mitigation by Using Mineral-Foam Based Sacrificial Cladding
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67	C. Brunelli, B. Janssens, B. Marinus, G. May, M. Runacres	High-fidelity numerical simulations on airfoils at low-Reynolds number
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