

WEBINAR TALK ON 'BLAST RESISTANT GLASS'

Organised by: Oil, Gas and Mining Technical Division, IEM

BEM Approved CPD/PDP Hours: 2.0 Hours

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SYNOPSIS

Terrorist attacks on building structure worldwide are the example of the fact that the destruction of the civil engineering structure are one of the target of the terrorist activities.. Building materials, such as concrete and glasses are the major components of the buildings. These materials are available everywhere, inexpensive, and its applications cover a large variation of building works. Moreover, these materials have low tensile strength and brittle. When these materials subjected to explosion, their building structures are not capable of withstanding the blast pressures due to the blast loadings. In most cases, the blast pressures which are exerted on building surfaces may be several orders of magnitude greater than the loads assigned for the building. The explosion is normally destroyed the exterior walls which are mainly made by annealed or tempered glass. Eventually, this will generally cause the building structures and the building façades to collapse. Thus, the performance of annealed glass subjected to blast loading by laminated glass These laminated glass have shown significant effect in the reduce of blast damaged and have potential to used in the high risk buildings.

SPEAKER BIODATA



Ir. Dr. Mohammed Alias Yusof is an Associate Professor in the Department of Civil Engineering, Universiti Pertahanan Nasional, Malaysia. He graduated with B. Eng (Hons) degree in Civil Engineering from Universiti Teknologi Malaysia (UTM) in 2002, a MSc. degree in Integrated Construction Project Management from Universiti Teknologi Mara (UiTM) in 2005 and PhD degree in Civil Engineering from Universiti Pertahanan Nasional Malaysia in 2013. He is a Professional Engineer registered with the Board of Engineer Malaysia. His main research interests are in the blast resistant materials such as concrete, glass, and also military and commercial explosives. He has developed a blast resistant concrete and had obtained the patent for the blast resistant concrete panel from Intellectual Properties Corporation of Malaysia (MyIPO) in 2016. Dr Mohammed Alias Yusof is author of " Blast Resistant Materials : Concrete and Glass", book. This book focus on the introduction to explosive technology, blast phenomena, blast resistant concrete and glass. Dr. Mohammed Alias has published extensively in the areas of blast resistant materials and technology, with a total publication count of more than 70, has served as reviewer for prestigious journals Science and Technology Journal. In 2017, he has been awarded a Distinguish Scientist by Venus International Foundation, Chennai, India for his valuable contribution in the field of blast resistant materials and civil Engineering.

Registration fees

(Effective 1st August 2020)

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