



**PROF IR DR MOHAMMED ALIAS YUSOF**

## ABOUT THE AUTHOR

Ir. Dr. Mohammed Alias Yusof is a 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.

**CIVIL & STRUCTURAL ENGINEERING TECHNICAL DIVISION (CSETD)**

## DEVELOPMENT OF BLAST RESISTANCE GLASS USING GREEN TECHNOLOGY (PHYSICAL)

### SYNOPSIS

For many years glass has been one of the most widely used construction materials for building facades. However, glass as a building material is very brittle, when explosion occurs, the air blast pressure, typically fractures glass windows, which might kill people and damage the surrounding areas. When these materials subjected to explosion, it is not capable of withstanding the blast pressures due to the blast loading. 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 on the exterior walls which are mainly made by annealed glass . Eventually ,this will generally cause the building façades to damage. Thus, these building façade which are made of annealed glass need some form of improvement to withstand the blast pressure due to the explosion. Thus this research talk presents the development of blast resistant glass material using polyurethane resin as inter-layer.

**DATE: 27 MAY 2023 (SATURDAY)**

**TIME: 10AM TILL 12PM**

**LOCATION:AUDITORIUM MALAKOFF, WISMA IEM**

**CPD Hours : 2.0**

**CPD reg Num : IEM23/HQ/131/T**

**LOCATION:AUDITORIUM MALAKOFF, WISMA IEM**

### REGISTRATION FEES

**MEMBER : RM 20**

**NON MEMBER : RM 70**