

RECORDED WEBINAR TALK ON "DESIGN AND OPTIMISATION OF INTUMESCENT COATING SYSTEMS FOR STRUCTURAL FIRE PROTECTION: A DATA- DRIVEN ENGINEERING APPROACH"

Organised by

Civil and Structural Engineering Technical Division, IEM
In Collaboration with HEMPEL (Malaysia) Sdn Bhd

IN CONJUNCTION WITH WORLD ENGINEERING DAY CELEBRATION 2026

2ND MARCH - 7TH MARCH 2026



**5TH MARCH 2026
(THURSDAY)
9AM - 5PM**



**Virtual Platform -
ZOOM**

Talk covers !

- Intumescent fire protection – what it is
- Structural engineering design consideration affecting fire protection – design considerations for structural engineers
- Passive fire protection (PFP) optimisation approach – estimation data and how to optimise dry-film thickness (DFT) thicknesses
- Fire engineering project engagement – effective working, data types and HEET Dynamic

SYNOPSIS

Demystify intumescent fire protection by explaining what it is, how to calculate and optimise a coating dry-film thickness to protect your primary structural steelwork and delve deeper into discussing how member structural load information can be used to make savings and optimise the coating thickness. I will also comment on what structural engineering design considerations impact fire protection, hence should be weighed up when considering project costs. I'll conclude with how Hempel can best collaborate with our clients and what free software Hempel has for customers to estimate themselves.



**Speaker :
Dr Holly Warren**

Speaker's Biodata

Holly Warren PhD MEng AIFireE GMICE MSFPE is the Head of PFP Engineering and Estimation with knowledge and experience of Fire Safety Engineering and Structural Fire Engineering, developed working in both industry and academia. Holly has experience in designing and optimising structures for fire, designing the passive fire protection for structures and fire strategy design. She has worked on projects in the oil and gas, commercial, industrial, educational and transport sectors, primarily in the built environment market. Holly leads the engineering and estimation input for passive fire protection at Hempel, which involves liaising with key clients around the world and collaborating with academia on research projects.

Registration Fees

IEM Members : RM15

IEM Non-Members: RM 70.00

BEM Approved CPD: 2

Ref. No.: IEM25/HQ/517/T (w)