PFPNet
PASSIVE FIRE PROTECTION NETWORK

2023 July Newsletter and Conference Details

PFPNet Conference 2023

Bookings are now open for the PFPNet conference in Barcelona to be held on the 24th and 25th October 2023 at the World Trade Centre.

The agenda is now finalised and is attached. As you will see, there are a lot of PFPNet projects to report, but we have also taken the opportunity to take presentations from others that we hope will stimulate debate and act to catalyse our next study activities.

And we are pleased that Barcelona-based PFPNet members, Applus and Hempel, will be supporting the event. There will be a visit to Applus test facilities on Thursday 26th October. Return transport will be provided from the WTC, and Applus will be providing a lunch.

October isn't far away, and we need as an early indication of numbers as soon possible for all aspects of the conference so ***please register as soon as you can*** *via the PFPNet website to indicate which days and events you would like to participate in*.

Attendance is free for PFPNet members, and the event is open to non-members, who can attend for a delegate fee.

Introduction to PFP in the hydrocarbon Industries Online Training Courses

The development of the course is progressing well, and we will be demonstrating the course at the PFPNet conference in October. Images and videos showing elements of the PFP process for different systems will enhance the final product and help with the descriptions would be most welcome.

If you are able to supply any then please contact simon.thurlbeck@pfpnet.com to discuss.

Qualification & Training Programmes

PFPNet is considering two "schemes" that are aimed at demonstrating competency:

- The qualification and training of individuals (Qualified Applicator).

  Here, the qualification is based on an assessment of competency obtained by both classroom and practical training, and through experience.

- The qualification and registration of companies (Qualified Application Contractor).

  A successful registration is by an audit of the use of processes and procedures that are used for quality management during application.

Both are ways that contracting companies and individuals can demonstrate their commitment to quality, making them attractive to each other, and ultimately to end users who will procure application services. Adoption of these programmes by end users into their company and project specifications is the measure of their success.

Before developing the detail of these programmes, PFPNet is engaged in a consultation process with potential partners who can help with the delivery of training and the management and award of any qualification. The purpose of the consultation is to identify the best ways to maximise geographical coverage and uptake of the programme, and to manage the ongoing operations of the schemes, before the detail is

developed. If you would like to be involved with the working group for this important PFPNet activity, then please contact john.dunk@pfpnet.com.

PFPNet Design Guidance Book No 1: PFP for Critical Process Control Equipment

One of the 2023 project commitments from PFPNet is to start the development of the Guidance Books that will define the procedures for the testing, assessment, classification, specification and end use of passive fire protection (PFP) systems used in the hydrocarbon sector. They will be applicable for all the types of PFP systems that are used in the hydrocarbon sector.

It is planned to produce a series of these books for various end use (for steelwork, critical process control equipment, penetration sealing, vessels and pipework, etc).

The first of these books will be for the PFP systems used to protect Critical Process Control Equipment (CPCE). The selection of the CPCE end use as the first guidance document is because we can align the PFPNet Guidance Book with the CPCE PFP fire test standard that we recently produced, and which is currently with UL. The linking of the two will help with the correct use of the standard.

I am pleased to let you know that PFPNet, with the approval of the PFPNet Steering Committee, has appointed Ian Bradley to write this first document. Ian is proposing that the work is done in conjunction with a Certification Authority and an OEM supplier. Ian also drafted the CPCE PFP fire resistance test standard, so he can reflect its intended use in this Guidance Book.

Because our plan is to develop a suite of these Guidance Books, a key part of this work is to establish the principles, structure and style on which all other subsequent documents will be written. This will ensure a consistency in style and brand for PFPNet. Having a template will be very helpful to subcontractors for future Guidance Books.

A kick off meeting for this work is imminent, and the plan is to present a draft of this document at the PFPNet conference this year.

If you would like to be involved with this work, then contact simon.thurlbeck@pfpnet.com.

Introductory Guidance on the Specification of Cryogenic Spill Protection

Our CSP workshop at the November '22 conference proposed two levels of guidance for Cryogenic Spill Protection: A short "Fundamentals of CSP" document outlining the essential information needed to ensure that a CSP system is correctly supplied and fit-for-purpose, and an "advanced" guidance document, containing more technical details on scenarios, consequence modelling, response of structures and equipment, qualification testing and assessment, materials selection, etc.

The first meeting of the working group to develop the "Fundamentals of CSP" guidance was held in May and the plans for the document discussed. Contributions from the group have enabled a drafting exercise to start that will provide a concise enquiry sheet that requests the essential information to enable a good supply of CSP, and a brief supporting document that provides explanatory background. The CSP document will be presented at the PFPNet conference, where we can discuss the needs of the advanced document.

If you would like to be part of this "fundamentals" working group, please contact simon.thurlbeck@pfpnet.com.

2023 PFPNet Conference Agenda

World Trade Centre, Barcelona, 24th and 25th October 2023

World Trade Centre, 1ª planta Edif. Este, Moll de Barcelona, s/n, 08039 Barcelona, Spain

Tuesday 24th October 2023

From	To		Title
09.00	10.00		Registration
10.00	10.10		Welcome ***Simon Thurlbeck, PFPNet***
10.10	10.50		Battery Fires and PFP – PFPNet project report ***John Evans, PFPNet***
10.50	11.10		Fire Scenarios for Specifying PFP, Jet Fire Resistance Test Selection, and ISO HHF Jet Fire Standard – PFPNet project report ***Ian Bradley, PFP Specialists***
11.10	11.40	Break	
11.40	12.20		Evaluating the impact of liquid hydrogen on structural steel protected with intumescent cryogenic spill protection ***Robin Wade, AkzoNobel***
12.20	13.00		Hydrogen Jet Fire Resistance of PFP systems – PFPNet project report ***John Evans and Simon Thurlbeck, PFPNet***
13.00	13.50	Lunch	
13.50	14.30		Applicator Qualification and Training Programmes – PFPNet project report ***John Dunk, PFPNet***
14.30	15.10		Introduction to PFP In the Hydrocarbon Industries - Training Course Demonstration – PFPNet project report ***John Dunk, PFPNet***
15.10	15.40	Break	
15.40	16.20		EPC Contractor's Challenge for PFP Design ***Kazuya Ozawa, JGC***
16.20	16.45		Specifying CSP: Part 1 Introductory Guidance - PFPNet project report ***Richard Holliday, PPG***
16.45		Close	
18.00			**Evening Cocktail Event**

Wednesday 25th October 2023

From	To		Title
09.00	10.00		Registration
10.00	10.40		Structural PFP in Road Tunnels Guidance - PFPNet project report ***Efectis Speaker***

10.40	11.10		PFP Thickness Measurement Guidance - PFPNet project report ***Mike Ogles, EmJay PFP***
11.10	11.40	Break	
11.40	12.20		Durability testing of rubber-based PFP systems ***Rodrigo Diaz, Vipo Solutions***
12.20	13.00		Update on UL, UL 1709 and UL 2431 ***UL Speaker***
13.00	13.50	Lunch	
13.50	14.20		Ageing, Damage and Durability of PFP - next stages for PFPNet ***Simon Thurlbeck, PFPNet***
14.20	15.00		PFPNet Design Guide Book No 1: PFP for CPCE - PFPNet project report ***Ian Bradley, PFP Specialists***
15.00	15.30	Break	
			3-Sided Protection Session
15.30	15.50		Structural performance considerations ***Enrique Munoz Garcia, Kent plc***
15.50	16.10		Preventing lateral torsional buckling ***Yong Wang, University of Manchester***
16.10	16.40		Materials performance aspects ***Robin Wade, AkzoNobel***
16.40	17.00		Discussion - What is needed to close this topic? ***Simon Thurlbeck, PFPNet***
17.00		Close	

Thursday 26th October 2023

09.30	14.00		Visit to Applus facility and lunch. Depart by coach from conference venue at 09.30 and return by coach at 14.00