July 2016

JOIFF Shared Learning

Shared learning is one of the 3 key pillars of JOIFF. Details of the industrial incidents listed on this page which are only a small number of actual incidents reported during the past 3 months have been circulated through the JOIFF Shared Learning network to the nominees of all JOIFF member organisations.

Message from our Chairman



JOIFF members and quests, welcome to another edition of The Catalyst,

I have just returned from a visit to Malta, where JOIFF will be holding its inaugural International Fire and Explosion Hazard Management Conference conference in November 2016.

continued overleaf.....



24, blames leak ~ Singapore – Crude Oil Tank Fire, Jurong Island \sim China - Firefighter killed in Jiangsu chemical storage blaze \sim India -Massive Fire at Biodiesel Factory Near Visakhapatnam, 8 Tanks Still Ablaze ~ Saudi Arabia - Fire at Sabic subsidiary kills 12, injures $11 \sim USA$ - 4 Alarm Fire breaks out at Houston

Warehouse \sim Nigeria – Niger Delta militants strike pipeline again in crippling new terror attacks \sim US - Oil-Train Derailment, Fire Damaged Oregon City Water System ~ Canada - Flames force another oil sands shutdown \sim US - Santa Barbara fire burning out of control near California oil facility

~ Nigeria - 7 dead in Lagos fuel tanker fire ~ Malaysia – Oil refinery ablaze in Port Dickson ~ Russia – Moscow fuel tanker crashes through motorway safety barrier

Some Industrial incidents that took place that took place during the second quarter of 20⁶ Germany - 2 in G

in Germany \sim Nigeria - AGIP pipeline incident kills 3 injures 7 ~ Samoa – Fuel storage tank blaze in Apia \sim Mexico - Pemex puts blast death toll at





Disclaimer: The views and opinions expressed in The Catalyst are not necessarily the views of JOIFF or of its Secretariat, Fulcrum Consultants, neither of which are in any way responsible or legally liable for any statements, reports or technical anomalies made by authors in The Catalyst.

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We – event organizer Paul Budgeon, JOIFF Director Kevin Westwood and myself - visited the Corinthia Hotel, where we will be holding the conference and also the International Safety Training College (ISTC) training facility. After in-depth conversations and meeting, I must say that I was very impressed overall. The arrangements and accommodations exceeded my expectations, the programming, infrastructure, scheduling, security measures, preparations with JOIFF member organization ISTC are all well in hand. I am a bit of a perfectionist, and what I saw provided the confidence I was hoping for, that this conference will be able to deliver at a very high level.

En route to Malta, I was also able to meet with the JOIFF Secretariat (Alec Feldman) and we were able to spend time with the JOIFF insurer and have discussions with JOIFF's legal representation regarding all of the business elements of running JOIFF. Once again, the professionalism, attention to detail and commitment to progressing JOIFF's very clear agenda of helping the High Hazard Response Industry continue to improve along the three pillars of JOIFF was clearly evident in the conversations and outcomes of the meetings.

Our focus is to help our members specifically (and our non-members generally) realize and take advantage of the value that JOIFF brings to our business. One thing we noted is how much more benefit is available to our membership than some take advantage of. We are working to help provide guidance on how to do that, and considering re-structuring some of what we do to help our members gain more benefit than ever. The conference is one of the ways we are working to bring this value to you.

Hope to see you there. In the interim, take time to read The Catalyst, as always there is wisdom, insight and knowledge to be gained.

Highest Regards, Randal S. Fletcher (Randy) JOIFF Chairman



Images taken from Shared Learning detail Second Quarter 2016.





About JOIFF

Membership of JOIFF, the International Organisation for Industrial Hazard Management is open to any Organisation which is a high hazard industry and/or has nominated personnel as emergency responders/hazard management team members who provide cover to industrial/ commercial organisations. Organisations which do not fully comply with these requirements are welcome to apply for Corporate Membership of JOIFF.

JOIFF's purpose is to prevent and/or mitigate hazardous incidents in Industry through its 3 pillars:

• Shared Learning – improving risk awareness amongst our members

• Technical Advisory Group – raising quality of safety standards in the working environment of High Hazard Industry and

Accredited Training – enhancing operational preparedness in emergency response and crisis management.

JOIFF welcomes enquiries for Membership - contact the JOIFF Secretariat.

JOIFF Ltd. Registered in Ireland. Registration Number 362542. Address as Secretariat.

About The Catalyst

The Catalyst is the official newsletter of JOIFF, the International Organisation for Industrial Hazard Management and is published quarterly - in January, April, July and October each year. Our policy is to bring you high quality articles on relevant technical issues and current and new developments and other happenings in the area of Emergency Services Management. In addition to The Catalyst, information relevant to Emergency Services Management is posted on the JOIFF website.

Readers are encouraged to circulate The Catalyst amongst their colleagues and interested parties. The Editors welcome any comments, you can email comments to fulcrum.consult@iol.ie

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New Members

JOIFF

During April, May and June 2016, the JOIFF Board of Directors were pleased to welcome the following new Members.

BP Oil, Hemel Hempstead Terminal, Hertfordshire, England represented by Doug Sidwick, Storage Operations Manger. BP Oil Hemel Hempstead are engaged in storing and distribution of fuel via pipeline/ship/road vehicle. Emergency response is provided by a team comprising full time and part time personnel.

ERCM Consultancy Pte. Ltd., Singapore represented by Azlan Musa, Managing Director, Associate Professor Ivan Sin Siang Meng, Senior Consultant and Loh Eng Choon, Senior Consultant. ERCM Consultancy is an International service provider in crisis and emergency preparedness, set up by former officers from Singapore Civil Defence Force (SCDF).

The key services offered by ERCM are training and consultancy, supply of on-site emergency response team (ERT) members and consultants, plan development, fire safety, firefighting, fire investigation, HazMat operations, technical rescue and evacuation. Also covered are enterprise risk management, crisis and incident management, business continuity management (ISO 22301) and disaster recovery. ERT members are experienced and trained SCDF and industrial fire brigade personnel.

Eurotank Amsterdam, The Netherlands represented by Frank Blaauw, HSE officer. Eurotank Amsterdam is a terminal of the VTTI group in the Amsterdam industrial area. The company has approx. 220 tanks and a total capacity of 1.3 million m³. Eurotank was founded in 2006 by the Vitol Group and today offers large storage capacity of mineral oils, blend components etc.

Ferrara Fire Apparatus Inc., Louisiana, USA, represented by Jonny Carroll, Vice President of Sales, Brad Williamson, Industrial Products Manager and Bob Gliem, Industrial Product Specialist. Ferrara Fire Apparatus, Inc. is headquartered just outside of Baton Rouge. Holden, Louisiana and it custom manufactures a complete line of fire, emergency and rescue vehicles including the Guinness World Record breaking Inundator Super Pumper.

HOTA (Humberside Offshore Training Association Ltd),

Hull, England represented by Ian Rook, Assistant Manager -Major Emergency Management & Medical, Amanda Viljoen, Training Manager and Karen Shepherd, General Manager. HOTA has been a training provider to the oil and gas Industry, maritime sector and high risk Industry for 30 years. Their portfolio of emergency response courses includes national accredited OPITO offshore courses. HOTA operate 2 x control room major emergency simulators with a third portable offsite version and they design and conduct "live" offsite COMAH (Seveso) major emergency exercises with statutory Category 1 emergency responders for major UK east coast Oil and Gas Terminals. HOTA is certified to ISO 9001, is an accredited charitable Limited Company and has multiple national approvals.

LaPorte County Hazardous Materials Team, Indiana,

U.S.A. represented by Jeffrey Hamilton, Director and Greg Eckhardt, Assistant Director. LaPorte County Hazardous Materials Team respond in Northwest Indiana and Southwest lower Michigan covering 8 counties. They respond to 250 parcel calls (1person or a small group) and 20 full team calls per year and cover 4 class 1 railroads along with several smaller railroads, many Interstates and major highways, several pipelines both natural gas and petroleum, and huge industrial facilities.

Marcé Fire Fighting Technology (Pty) Ltd., Centurion,

South Africa represented by Jan Steyn, Managing Director, Francois Steyn, Sales and Marketing and Jaco Van Der Merwe, Head of Engineering Sales. Marcé Fire Fighting Technology (Pty) Ltd. manufactures and imports firefighting and rescue vehicles. The Company is also a supplier of firefighting and rescue tools and equipment and protective clothing. Marcé offers turkey fire station solutions.

National Academy for Professional Training (NAPT),

Doha, Qatar represented by Masoud A.A.Al-Khaldi, General Manager, Jonathan Lord, Operations & Training Manager and Colin Tooke, Senior Fire & Safety Instructor. NAPT is a semi-government professional training organisation in the State of Qatar, with ownership by the State of Qatar Armed Forces, Ministry of Interior, Internal Security Forces and Intelligence Unit. Founded in 2003 initially as a Fire Academy, today, NAPT provides professional training, consultation, logistical and procurement services to the 0il and gas, construction, aviation and maritime industries, the security, commercial and government sectors and the Military.

THAIOIL Public Company Limited, Chonburi, Thailand,

represented by Sermsak Nantapong, occupational health, safety and fire manager, Jirayus Surasa, occupational safety and fire specialist and Maruphong Tanmontian, occupational safety and fire specialist. THAIOIL Public Company Limited operates a comprehensive refinery that uses advanced and efficient processing technologies to produce petroleum products primarily for domestic distribution.

We look forward to the involvement of our new and existing Members in the continuing development of JOIFF.

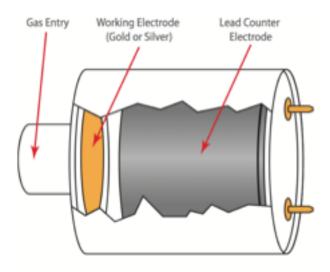
Electrochemical Oxygen Sensors and XCell® O2 Sensors



Standard O2 Sensor Technology

Oxygen sensors use electrochemical reactions to generate a current proportional to the concentration of oxygen and report the amount of oxygen in percent volume.

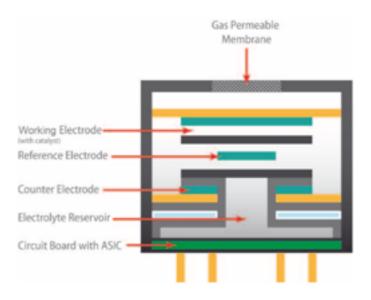
Most O2 sensors on the market use a consumable chemical reaction: oxygen gas reacts with lead to form lead oxide. This chemical reaction is constantly taking place from the time the sensor is manufactured. As lead is converted to lead oxide, the lead is consumed until it is eventually used up. At this point, the sensor's output drops below a point where the sensor will continue to calibrate. When this happens, the sensor reaches end of life. The lifespan of a typical lead based O2 sensor is about 18-24 months.



Why MSA XCell O2 Sensors?

Longer Life! The electrochemical system in the MSA XCell O2 Sensor uses a non-consuming chemical reaction. O2 molecules entering the sensor react with the working electrode creating electron flow and water as a byproduct. At the counter electrode, water is converted back into O2 molecules. The chemical reaction requires a low voltage, which is controlled by the application-specific integrated circuit (ASIC) in the XCell Sensor. Because nothing is consumed or "used up" as the sensor is functioning, the sensor has a longer lifespan.

XCell O2 Sensors have a typical life of more than four years. This non-consuming chemical reaction also means that the sensor can have a much longer shelf-life. The chemical reaction in a traditional lead-based O2 sensor starts the second the sensor is manufactured. At this time, the chemical process whereby the lead is converted to lead oxide begins and the finite sensor life begins. The MSA XCell O2 sensor is designed to have a very long shelf-life. While the sensor sits un-powered, no chemical reactions with O2 are taking place and no life is being depleted from the sensor.



Performance! Response Time—Pressure Sensitivity

The chemical reaction used by the MSA XCell sensor allows the sensor to respond very quickly to changing O2 levels with a typical t90 response time of less than 10 seconds.

Most O2 sensors on the market, including the XCell O2 sensor, are capillary limited O2 sensors. This means O2 is drawn into the sensor by long, thin capillary channel. This capillary keeps the balance between the external ambient pressure and the internal ambient pressure. The ratio of length to diameter of the capillary determines how quickly the sensor equilibrates and how large of a "spike" is cause by quickly changing ambient pressures. The combination of the capillary and the ASIC electronic control gives the XCell O2 sensor an edge over other sensors by responding to rapid pressure changes. Pressure transients are equalised in seconds and the peak readings from these pressure spikes are minimised to display very small changes for that brief period. This process eliminates unwanted alarms due to pressure changes.

Things to know about Oxygen Sensors

• Water vapour in the air displaces other gases in the atmosphere including O2. This is why it is more difficult to breathe in very hot/humid conditions. If you suddenly take an instrument from a relatively dry area where you calibrated it into a very humid area, your O2 sensor could read several tenths of a percent low. This is not the sensor drifting due to humidity; this is an actually reading that the percent O2 is

slightly lower in that area.

• We calibrate our O2 sensor in a background of Nitrogen, just like the air we breathe. During this calibration, the flux, or rate that O2 molecules enter the sensor in nitrogen is part of the calibration. If the background gas significantly changes to another inert gas like Helium or Argon, then this rate at which O2 molecules enter the sensor will change. The sensor will read high if the background gas molecular size is less than nitrogen, such as helium. It will read low if the background gas molecular size is larger than nitrogen, such as argon.

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• Lead-free O2 sensors do not exhibit cross sensitivities to other gases, just O2.

· O2 sensors can be damaged by large amounts of

gases that have the ability to damage the platinum working electrode of the sensor.

This would typically be percent by volume concentrations of Chlorines or Fluorines (an example would be many refrigerants). If poisoning is suspected, a bump test and/or calibration should be performed.

Never try to calibrate XCell O2 sensor immediately after installing a replacement sensor. Install the replacement sensor and wait 20-30 minutes for stabilisation before calibrating.



Pre-planning for Tank and Bund Fires Report from JOIFF accredited Training Provider H2K, The Netherlands.

Since September 2015 the JOIFF accredited training course Industrial Safety and emergency Response course was given 3 times. The course addresses an array of vertical tank fires and small, medium and very large bund fires.

The benefits of using the performance based process for identifying the site specific incident scenarios and suitable options to control these incidents are extensively discussed.

The process for designing, implementing and establishing the Inspection, Testing and Maintenance (ITM) program to secure 99% availability and reliability of the fire water systems and fixed and mobile fire protection systems selected in the performance based process, are also included in the course.

One full day of the three days is dedicated to firefighting foam. During this day criteria for selecting the appropriate firefighting foam are discussed in association with relevant codes and standards. The differences between recommended minimum foam application times and application rates in standards like NFPA 11 and practical application times and rates as well as the expansion ratio of foam solutions are extensively discussed. Foam and water management together with containment of runoff water management are also addressed. A lab scale practicum is incorporated in this day. Attendees are shown the effect of using various types of foam on hydrocarbon fires, the difference between a forceful and indirect foam application.

All three courses were attended by representatives of petrochemical industry, representatives from industry's interest groups, underwrites, authorities, consultants, inspection bodies, suppliers of fire protection equipment and others.

This mix of course participants with various backgrounds increased the interaction between the participants and made

the course very lively thanks to the discussions and willingness to share practical experiences.

The first day, the last day and the morning of the second day are organized at the office of Marsh Risk Consulting in Rotterdam, next to the main train station where trains arrive from Amsterdam airport. For the foam practicum in the afternoon of the second day Participants are transported to depot and training facility of the mutual aid organization in Rotterdam Rijnmond region by shuttle bus.

All three days of the course are very intense and demanding for the participants nevertheless every one stayed focused until the very last minute.

The next course is planned for November 16, 17 and 18 2016 and open for registration using the link: <u>http://</u>www.h2k.nl/en/trainingen-bijscholing-en/industriele-training/ ind-safety-emergency-response

This JOIFF accredited course is also available for onsite training for larger companies on their production site or tank terminal.









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Because every life has a purpose...



JOIFF Roll of Honour

During April to June 2016, the following persons were awarded the JOIFF Diploma:

INEOS Chemicals Grangemouth Ltd. Stirlingshire, Scotland



A SHIFT

From L-R: Rear: Trevor Lynch Dip.JOIFF. Alastair McNiven Dip.JOIFF. John Currie Dip.JOIFF Front: Robert Campbell Dip.JOIFF and David Avery Dip.JOIFF



C SHIFT

From L-R: Rear: Hugh Wilson Dip.JOIFF. Andrew Fowler Dip.JOIFF. Gary Batchelor Dip.JOIFF. Front: Sharon McPhee Dip.JOIFF. Iain McFarlane Dip.JOIFF. Colin Campbell Dip.JOIFF.



B SHIFT

From L-R: Gary Allan Dip.JOIFF. Alex Cunningham Dip.JOIFF. Zander Murray Dip.JOIFF. David Wallace Dip.JOIFF. Gordon Aitken Dip.JOIFF. (Not pictured - Ally Booth DipJOIFF)



D SHIFT

From L-R: Rear: Lee Robertson Dip.JOIFF. Stewart Bennie Dip.JOIFF. Chris Paige Dip.JOIFF. Front: William Armstrong Dip.JOIFF. Gordon Sherry Dip.JOIFF. Paul Richardson Dip.JOIFF. Alan Dillon Dip.JOIFF.

Plus not pictured: Gordon Campbell DipJOIFF, Craig Hannah Dip.JOIFF, David O'Hara Dip.JOIFF, Alec Sheach Dip.JOIFF, Derek Ure Dip.JOIFF.



JOIFF Roll of Honour

INEOS Chemicals Grangemouth Ltd. Stirlingshire, Scotland, continued

On completion of the JOIFF Diploma programme for each of the Shifts, Gordon Kirkland, Emergency Response Specialist, INEOS Grangemeouth said:

"The Emergency Response Technicians mentioned completed the diploma on shift over the course of a year. The diploma is now part of our core competencies for Emergency Responders on site. They were guided by their Station Officers and Sub Officers who had previously received their JOIFF Diplomas and carried out the internal verification of the submitted work. Shift drills and exercises were carried out to ensure the practical elements of the course were covered and fire service manuals and other reading materials were made available to all shifts to ensure the theory part could be completed accurately. Courses used for Approved Prior Learning (APL) included Draeger BA Maintenance & Wearer, Instructor, BAFE Fire Extinguisher Servicing and FPOS (Medical Training).

I would like to thank all of those who have now achieved their JOIFF diploma for the hard work and effort they gave to ensure that they now have accreditation from a leading industrial body."

BP Exploration Operating Company Ltd. Sullom Voe, Shetland, Scotland



Mandie Fulbirg Dip.JOIFF, Leonard Goodlad Dip.JOIFF and Scott McLeod Dip.JOIFF of the Emergency Response Team successfully completed their Diploma programme.

ADCO Terminal & Pipeline Operations Division Fujairah & Sweihan Fire & Rescue Service

Ferda Gunduz Dip.JOIFF



Ferda started his career within the oil and gas industry in 1992 at BP Turkey ATAS refinery as an Emergency Response Team Member and Plant Operator. After 13 years enjoyable and huge experience improvement at BP ATAS Refinery, in 2005, he took the Deputy Chief Fire Officer position at Baku Tbilisi Turkey Crude oil Pipeline

project which is leading a 48 inch 1700 Km Crude Oil pipeline operation. After a short period he was promoted as Chief Fire Officer in this project. Finally, before he moved to his existing Company, Ferda worked in the TUPRAS refinery in Turkey as a Fire specialist for one year.

For the past 5 years Ferda has been working as Senior Fire Officer (deputy Chief Fire Officer) for Abu Dhabi Company for Onshore Petroleum Operations (ADCO).

ON achieving his JOIFF Diploma, Ferda said "During my career path, I have always been proud of my participation in numerous fire teams in different locations and I believe I still have so many milestones in this endless learning process."

Oman Oil Refineries and Petroleum Industries Company (ORPIC Sohar Industrial Port, Sultanate of Oman

Hilal Al Yaarubi Dip.JOIFF



Hilal joined the fire department in Sultanate of Oman in November 2001 for The Petroleum Development of Oman PDO Fire Services. After 5 years Hilal had the opportunity to join Qatar Petroleum (QP) at Qatar State which he was with for 5 years. Hilal then returned back home to join The Oman Oil Refineries and Petroleum Industries (ORPIC) where he has been promoted to senior fire fighter.



JOIFF Roll of Honour

During April to June 2016, the following persons were awarded JOIFF Graduate:

Kevin Boffy Grad. JOIFF United Kingdom



Having successfully completed the JOIFF Diploma programme, Kevin began work on the JOIFF Technician programme and in November 2014, was presented with the very first JOIFF Technician award. Having also achieved the necessary management and service requirements, in May 2016, Kevin was awarded Graduate of JOIFF.

Zoltán Mészáros Grad. JOIFF, Hungary



In 1989 to 1994 Zoltán was a member of the Governmental Fire Brigade of MOL Duna Refinery, Hungary, starting his career as a foam tender operator, rising through the ranks until in 1994 he was appointed Deputy Team Leader. Zoltán was one of the founding members of FER Fire Brigade where he started in 1995 as a Team Leader, a position he held for 11 years. He was responsible

for organising and managing the core and supplementary activities performed by his team, and was also Incident Commander during the emergencies his team responded to.

In 2006 he was appointed Officer of Fire Fighting, Rescue and Training then in 2007 he was appointed Head of Fire Fighting and Rescue Department where his tasks involved management of the professional work of the fire brigade.

In 2010 he was promoted to Fire Chief of FER Fire Brigade Százhalombatta Branch and in that position he had full

Howard Carr Grad. JOIFF United Kingdom



From 1979 to 2002, Howard served in the Royal Navy attaining the rank of Chief Petty Officer. He served mainly in Type 42 anti–aircraft destroyers and saw action in a number of war zones. His last draft was first Lieutenant of HMS Trumpeter, based in Gibraltar carrying out UK territorial water patrols.

From 2003 to 2014 Howard was a member of the

Emergency response team in Sembcorp Asset Protection, Middlesbrough UK, attaining the rank of Station Commander. In this role he responded directly to the Protection Operations Commander. The role involved coordinating and managing the operational activities of the shift teams across three COMAH sites on Teesside, as well as managing a team on the SSI steel making facility at Redcar.

During 2014 to 2015, Howard was Surface Safety Officer for a chemical company with responsibility for areas including vibration testing and monitoring, noise assessments, dust measurement and monitoring, upkeep of register and to manage any removal of asbestos on site, construction, design and management regulations and a British Standards auditor for ISO 18001, ISO 14001 and ISO 9001.

In 2015, Howard moved to Falck Fire Services UK Ltd. where he is currently Station Commander.

In May 2016, Howard successfully completed the JOIFF Technician programme and was awarded the right to use the post nominal Tech.JOIFF and having also achieved the necessary management and service requirements was awarded Graduate of JOIFF.

responsibility for the professional work of the fire brigade which provided a comprehensive emergency response capability 24/7.

Then in 2014 Zoltán was appointed Chief Officer Supporting Fire Fighting and Rescue for FER Fire Brigade and Service Ltd., Százhalombatta, Hungary. In this position he is responsible for coordinating the professional work of the seven branches that FER Fire Brigade currently operates.

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Preparing for Emergency Management in Industrial & Harbor Areas: The Search for Success Factors in Mutual Aid & PPP Constructions

by Kees Kappetijn Subtitle: Research Project for Mutual Aid & Public Private Partnerships

Securing a pre-defined level of safety in an industrial area and preparing for incident and crisis management is often a joint effort of local stakeholders. Stakeholders from both the industry and public authorities. This is based on the deep understanding that no individual organization (private or public) can organize, prepare, buy or train enough response capacity for industrial hazard management on its own. Public and private partners often act from specific, unexchangeable responsibilities, but that does not mean that a collaboration is impossible.

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In various places around the globe stakeholders join forces to organize industrial fire and rescue organizations that act for various companies, keep alarm/emergency rooms operational, invest in large firefighting equipment for tank fires etc. Various kinds of Emergency Response Planning for flooding, wildfires, earth quakes and release of toxic gases are set up jointly. Information, enlightenment and instruction of inhabitants in the surrounding environment can also be a joint effort. Developments in which stakeholders join forces go under the name of Mutual Aid. When a Mutual Aid also involves public parties it can be called a Public Private Partnership (PPP).

Mutual Aid developments are widely spread around the world, in both "heavy" and "light" appearances. The Netherlands is well known for PPP-organizations in its industrial and harbor areas. A first scan leads to 10 PPPsetups in the last 20 years alone. And not all industrial areas are covered yet; a few harbor areas are still developing.

For the setup of a Mutual Aid or PPP-organization comparable arguments are often used: better preparation, lower costs, control over response-capacity, guarantee of specialized and often expensive equipment, combining networks and expertise, credibility to local society, joint responsibility in economic development etc. Even though the arguments are often the same, the way to organize can differ enormously, depending on legislation, company standards, available budget, roles of key-players like insurance companies. And very important: the level of trust of local leadership in each other.

For the Netherlands, the consultants of Kappetijn Safety Specialists have a lot of experience in this field, going back to the 90's of the former century with the establishment of the Unified Industrial Harbor Fire and Rescue Brigade in the Rotterdam harbor. A PPP for a geographic area of 40 by 10 miles, over 100 Seveso (COMAH) companies, two large suburbs and complex and dense rail, water and road infrastructure. The consultancy is currently linked to three further developments. These developments require some international research, which is performed by the company.

Kappetijn has been a JOIFF member for over 10 years (of which a few as board member) and wants to make the outcome of this research also available to the membership of JOIFF. Because constructions developed in the Netherlands, work in the Netherlands, but there are many more successful developments around the world. To name just a few: in the UK, a mutual aid was established after the Buncefield incident, the Houston-area in the USA developed CIMA, and Sweden constructed a national PPP for tank firefighting.

The research project aims for collecting information about these organizations, get success and fail factors and share these experiences through the joint platform of JOIFF. JOIFF member organizations will be asked to participate by sharing local experience, if a member (and its organization) is part of a Mutual Aid or PPP.

Kappetijn offers to make the findings available to the membership. This will be done in two stages:

1. Come to an overview of Mutual Aid and/or PPP organizations in the field of industrial hazard management around the world, with basic characteristics, geographic spread and summary of local partners;

2. Elaboration per Mutual Aid and/or PPP on specific organizational themes, for example

a. task and goal of the initiative

b. number of people involved (execution, staff and management)

- c. number of vehicles, key-equipment and PPE
- d. administration and governance model
- e. finance and contribution structures
- f. used organizational and/or quality standards
- g. if used: performance indicators
- h. background on policy and standards for training and competence
- i. insurance requirements

The first steps in the project have already been taken, general internet research has started, first contacts have been made. Kappetijn, and the board of JOIFF with him, hope for a solid response from the membership. In the world of industrial hazard management, discussions are often technically oriented: vehicles and pumps, PPE and clothing,

JOIFF



training grounds, technical installations, preplanning, water and foam capacities etc. All very important themes, because the threats we prepare for require 100% of our professionalism and 110% of our availability.

However, being professional about these themes also requires professional organizations, with stakeholders that understand the threats, the effects and concerns for local societies, and the impact when things really go wrong. Mutual Aid constructions and PPP's are often started by people that know from personal experience that serious incidents are fought jointly and thus the preparation must be done jointly. With partners that decided to trust each other and invest, before the fire starts... We are looking for the factors of success. What works and what does not. Kees Kappetijn will give a presentation and update on the project at the JOIFF Fire and Explosion Hazard Management Conference in Malta in November 2016.

Editor's note: Kees Kappetijn is Director of Kappetijn Safety Specialists, Zwijndrecht, Netherlands. Kappetijn Safety Specialists are consultants and safety specialist for public and private organisations with Seveso-dilemmas that have to prepare for large incident and disaster scenarios and must dimension, organise and train their emergency response organisations and crisis management teams. For further information, please contact Kees Kappetijn (k.kappetijn@kappetijn.eu) or Philip Stohr (p.stohr@kappetijn.eu).



International Safety Training College Malta

Today ISTC is a thriving, ever developing training centre which is continually striving to improve its image both nationally and internationally. We

provide Firefighting, Health & Safety, First Aid & Risk Management training to the gas & oil industry. We also provide fire safety and basic fire awareness training to local industry; the hospitality industry in particular being a major part of Malta's economy. The College Director is Mr. Andrew Gilravey who has a wealth of experience internationally in this fire related industry.





Classroom Facility



Sea King Helicopter Airframe

Loading Rack Prop



Poolside Training

ISTC started business in 2000 and became a registered College in 2012 initially providing Fire Warden and First Aid training to local industries. However, today we hold accreditations from various bodies ensuring that we deliver internationally recognized training through a very wide range of courses to consistently high standard to our offshore, onshore, aviation, maritime and local industry customers. Most recent of which is our accreditation to JOIFF, an organization with which we are proud to be associated, which was achieved in 2014.

The site it occupies in Malta is a former Royal Air Force Station, RAF Hal Far, prior to that it was occupied by the Royal Navy and known as RNAS Falcon.

The site itself comprises a training ground covering

approximately 15,000m², a training pool area for carrying out offshore training and the main administration block where there are 7 classrooms; complete with interactive whiteboards and projectors, shower and changing facilities, kitchen and dining room.

The facilities on the training ground include a training tower and fire building, helideck, aircraft fire prop, hot fire training facility, two Breathing Apparatus rooms and various other fire props. Two new additions to this area are a loading rack complete with road tanker and a storage tank fire simulator which are both gas fired.

ISTC has over recent years continually improved its facility and added a modern up-to-date, fully accredited Emergency Management suite complete with overhead projectors and computer systems to simulate any emergency room scenarios. Here emergency management staff can be training on a variety of workplace emergencies tailored to the specific industry in which they work.

Continuing our recent progress we are proud to be working with JOIFF in hosting the International Fire & Explosion Hazard Conference here in Malta in November. We at ISTC look forward to welcoming all delegates and will endeavor to ensure the success of this event as well as making your visit to the beautiful island of Malta as pleasant as possible.



JOIFF International Fire & Explosion Hazard Management Conference. Fire & Explosion Hazard Management - Are You Prepared? Corinthia Hotel, St. George's Bay, Malta.November 3rd and 4th 2016.

In November 2016, the first International Fire & Explosion Hazard Management Conference (FEHM) will take place at the 5 star Corinthia Hotel, St. George's Bay, Malta organised by JOIFF in association with JOIFF member organisation International Safety Training College (ISTC) Malta.

JOIFF

This ground-breaking Conference is designed to provide High Risk Fire & Explosion Hazard Management specialists from around the world the opportunity to listen, discuss and network with the world's foremost experts and specialist speakers on FEHM pre preparedness,

JOIFF have sought out speakers who are acknowledged experts in the field of FEHM who will present technical papers, case studies, major incident reports, lessons learnt, latest product developments and equipment

demonstrations to a worldwide audience. Subjects that will be covered include:

JOIFF is delighted to announce the Keynote Speakers for this Conference:

Vanessa L Allen Sutherland - Chairperson & Member of U.S. Chemical Safety Board. Chairperson of the United States Federal Agency - Chemical Safety Board **Mu Shanjun** - Vice President of SINOPEC Research Institute of Safety Engineering. Safety Expert of State Council of China

Zhang Guangwen - Senior Engineer of SINOPEC Research Institute of Safety Engineering Responsible for accident investigation in SINOPEC Supporting the main subject matter of FEHM, a diverse range of topics will be covered by the expert panel of Speakers. This will include LNG modelling, insurance issues, Occupational Health and Safety, Ageing Installations, Passive Protection, Training and Competence, Foam, Operational Readiness, Mutual Aid etc. There will be opportunities for Question and Answers and networking and also included in the programme is a visit to International Safety Training College which will include practical Fire ground Demonstrations

The conference will be held at the 5 star Corinthia Hotel, St Georges Bay, Malta, a beautiful Spa Hotel with excellent conference facilities.

The JOIFF Annual General Meeting 2016 will take place at the same venue in the afternoon prior to the Conference.

You will find information on the speakers, subjects and schedule plus details on the venue and the event registration forms at <u>http://www.2016-joiff-fehm-conference.com/</u>

For further information, contact the Event Management team on Tel: + 44 (0) 1305 85 82 82 Email: amelia@edicogroup.net





JOIFF TRAINING NOTES

"TRAIN AS IF YOUR LIFE DEPENDS ON IT - BECAUSE SOMEDAY, IT MIGHT!"

JOIFF accredited training is within a Competency Based Training framework and involves course content, instruction and the facilities of the training provider/training establishment. All students who successfully complete a JOIFF accredited course/ programme are issued with a JOIFF Certificate of Competence which has its own unique number.

The following dates have been provided by JOIFF accredited training providers. If you wish to find out any information or make a booking, please contact the training provider direct, contact email addresses provided.

JOIFF Accredited Training Programme for 2016

JOIFF Accredited Course	Dates	Venue / Organiser	
Site Specific Courses Fire & Safety Foundation 4 x 1 Day Modules Incident Controller 2 or 4 Days SCBA Initial & Refresher Confined Space Entry Confined Space Train the Trainer (with SCBA for High Risk)	As required	On your own site. Subject to Risk Assessment & Facilities. For further information contact arcfiretraining@ntlworld.com	
Site Incident Controller Training 2 Days Site Main Controller 3 Days	16 th - 17 th August 15 th - 16 th November 9 th - 11 th August 8 th - 10 th November	Eddistone Consulting Email: opportunities@eddistone.com Tel: +44 1433 659 800	
Industrial Fire Brigade Incident Commander Course (IFBIC) 5 days	4 th July - 8 th July 5 th Sept 9 th Sept. 21 st Nov 25 th Nov.	Falck Fire Academy, Rotterdam, Netherlands Email: fireacademy@falck.com Tel: +31 181 376 666	
Industrial Safety and Emergency Response Course 3 days	16 th - 18 th November	H2K T. +31 174 41 48 72 E. info@h2k.nl www.h2k.nl	
Firefighting foundation course 10 days	23rd May - 3rd June		
Incipient Course 10 days	4 th April - 15 th April 13 th June - 24 th June		
Industrial Breathing Protection/ Confined Space /H2S 5 days	11 th - 15 th April 25 th - 29 th April 9 th - 13 th May 23 rd - 27 th May 20 th - 24 th June	International Safety Training College, Malta Tel: + 356 2165 8282 + 356 9998 5211	
Fire Team Member 3 days	11 th - 13 th April. 2 nd - 4 th May. 16 th - 18 th May. 30 th May - 1 st June. 13 th - 15 th June.	Email: sales@istcollege.com.mt Contact: Patrick Abela	
Fire Team Leader 5 days	11 th - 15 th April. 13 th - 17 th June.		





July

Kerr Monnex Powder JOIFF member organisation Angus Fire has sent us this report.

Angus Fire are receiving questions and feedback from the FIRE sector including JOIFF members, asking whether Monnex is still available, following the closure by Kidde Products Powder Plant in Kirkby, Merseyside in 2013. There seems to be some confusion regarding this situation within our sector.

We are pleased to confirm that in 2013 when Angus Fire was established as an independent UK Fire Company within the Angus International Safety Group Ltd, they in fact retained the Kerr Fire and the Monnex Powder brand. In 2013, Angus invested heavily in building a new Monnex manufacturing plant for Kerr Fire on their Bentham site which was opened in April 2014.

So the continuity of supply for Monnex was retained and the availability of this high performance powder was ensured for

the FIRE Sector. In fact the quality of Monnex has not only been assured but test results indicate that the performance and the consistency of Monnex has been enhanced from the new production facility. Users have no need to compromise on Monnex performance by accepting inferior substitutions, in some cases purporting to be Monnex (Monnex is a registered trade name of AISG Ltd and not a generic term).

Therefore for the avoidance of doubt Monnex Powder is certainly alive and well and commercially available only through Kerr Fire based at Bentham, Lancaster.

JOIFF members and others with any technical or commercial queries about Monnex powder should contact Ian Huntley at Kerr Fire - Email: <u>Ian.Huntley1@kerrfire.co.uk</u> Tel: +44 (0) 15242 64092.

Diary of Events

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	27 th – 28 th	IFE AGM and Conference, London, England
Sept	ember	
	21 st – 22 nd	The Emergency Services Show, Birmingham, England
	21 st – 22 nd 16 th	International Water Mist Conference, Vienna, Austria
Nove	ember	
	2 nd - 8 th	JOIFF International Fire and Explosion Hazard Management Conference, Malta
	8 th – 10 th	SECUREXPO East Africa, Lagos, Nigeria
	22 nd – 24 th	Oil Spill India 2016, Goa, India

Please contact the JOIFF Secretariat with details of any event that you think that JOIFF Members might be interested in attending. Note: The Catalyst is not responsible for the accuracy of dates and / or venues announced. This is based on information given to the Editors and is published in good faith.

Next Edition of The Catalyst

Drones for Emergency Response in High Hazard Industry. In the Next Edition of the Catalyst, JOIFF will feature new member RectrixAS describing how Unmanned Aerial Vehicles (Drones) as a disruptive technology will be the next breakthrough in innovation to enhance operational decision making... And much more !!!

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