



# The Catalyst

The Official Newsletter of JOIFF

June 2007

## FROM THE EDITORS

Welcome to the second edition of The Catalyst for 2007. As always, there is a varied mix of articles in this edition including our regular features on New Members, detail for our Members in the Members Section and detail on JOIFF accredited Training.

We would like to thank our advertisers and our sponsors for their support – without them we would not be able to

function. We encourage our Readers to circulate The Catalyst amongst their colleagues and interested parties and we welcome any comments.

Our policy is to bring you high quality articles on new developments and other happenings in the area of Emergency Services Management. In addition to The Catalyst, information relevant to Emergency Services Management is also posted on the JOIFF website.

## ABOUT JOIFF

Membership of JOIFF, the Organisation for Emergency Services Management is open to any Organisation with nominated personnel as occupational fire fighters / 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 provides a forum for discussion amongst peers,

accredited training specifically developed for the sectors in which JOIFF members operate, and technical advice through the JOIFF Standard and the JOIFF Shared Learning network. JOIFF welcomes enquiries for Membership - contact the JOIFF Secretariat.

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## NEW MEMBERS

During March, April and May 2007 the Executive of JOIFF were delighted to welcome the following new Members.

### Full Members

**British Sugar Plc., Peterborough, England,** represented by Dr. Ash Solanki, Head of Health and Safety, John Priddle, Safety Coordinator – Site Support and Steve Rawson, Safety Coordinator – Projects. The emergency response team, which is comprised of part time personnel, have fortnightly drills on site, annual refresher training and breathing apparatus training with the local authority brigade and confined spaces training with Mines Rescue Service. Equipment includes fire tender and portable pumps.

**Essex County Fire and Rescue**

**Service, England,** represented by David Johnson, Chief Fire Officer, Mark Samuels, Service Petrochemical Officer and Alan Martin, Service Training Officer. Detail about Essex County Fire and Rescue Service is included in a separate article this edition of The Catalyst.

**The Fire Service College, Moreton-in-Marsh, England,** represented by Jeff Marwood, Group Manager Tutor, specialist hazmat section, Ian Lambkin, Station Manager Tutor, specialist hazmat Section and A. Gilravey, Station Manager Tutor, International and wider markets section. The Fire Service College is the national fire training establishment for the UK Fire Services. Specialist Hazmat Tutors nominated to represent the College

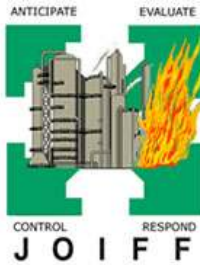
have leading reference for developing and delivering hazardous materials and petrochemicals related courses within the College.

**Idemitsu International (Europe) plc., London, England** represented by Makoto Hirai, Manager Research and Technology. Idemitsu Kosan Co., Ltd is Japanese oil refining company, and is the parent company of Idemitsu International (Europe) plc. Idemitsu's business activities include oil refining, lubricant and LPG manufacturing, coal marketing, petrochemical manufacturing, development and production of petroleum and other mineral resources and new energy such as uranium and geothermal.

**SAPREF – South African Petroleum Refineries, Durban, South Africa**

### 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.*



# The Catalyst

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represented by Bradley Hlubi, Fire Officer and Eddie Poll Jonker, Fire Chief. SAPREF is a 50/50 joint venture between energy multinationals, Shell SA Energy and BP Southern Africa and is southern Africa's largest crude oil refinery. SAPREF's facilities comprise a single buoy mooring, a storage facility at the Durban harbour, joint bunkering services and the refinery itself which is located about 16 kilometres south of Durban. The SAPREF emergency response team comprises almost 50 persons.

**Unified Industrial and Harbour Fire Department, Rozenburg, The Netherlands** represented by drs. Ben Janssen MCDM, Managing Director, Raymond Bras, Project Officer and B. de Leeuw, Account Manager Companies. The Unified Fire Department is a partnership between more than 40 companies in the port and industrial area of Rotterdam, Rijnmond, the city of Rotterdam and the municipality of Rozenburg. The aims of the Unified Fire Department are to combat incidents by specialised industrial fire fighters who aim to intervene as quickly as possible. They also provide assistance for non-fire incidents such as rescue and technical assistance and they maintain and develop the industrial fire brigade.

**Woodside Energy Ltd., Perth, Western Australia**, represented by Michael White, Emergency Management Advisor. Woodside Energy is Australia's leading publicly listed oil and gas exploration and production company with interests across the globe, focused on three regions: Australia; Africa and the United States. Since the company was founded in 1954, it has grown to be the operator of Australia's largest resources project, the North West Shelf Venture in Western Australia, where it runs facilities that account for 40 per cent of Australia's oil and gas production. Woodside sells liquefied natural gas, natural gas, crude oil, condensate and liquid petroleum gas around the world.

## Corporate Members

**BRE Certification, Garston, England** represented by Angela Richards, Special Projects Manager, Philip Field, Technical Director and David Charters, Director of Safety Engineering. BRE Certification (incorporating LPCB) is a wholly owned subsidiary of the BRE Trust which is a registered research and education charity. BRE's activities include testing, certification, research, specialist advice, training and publications relating to the Fire, Security, Construction and Environmental Industries.

**Dr. Sthamer – Hamburg, Germany** represented by Jan Knappert, International Sales Director, Henning Sthamer, Marketing Director and Dr Matthias Prall, Chief Chemist. Dr. Sthamer are manufacturers of firefighting foam compounds whose brands include Sthamex, Sthamex AFFF, Foamousse, FluorFoamousse and Moussol APS.

**Firebuy, London, England**, represented by Jo Lee, Communications Manager, Terry Brewer, Chief Executive and David Geere, Procurement Relationships Manager. Firebuy was created by the United Kingdom Government to carry through the projects and processes listed in the Government's National Procurement Strategy for the Fire and Rescue Service. It aims to procure fire-specific goods and services in the most efficient way.

**Flamepro (UK) Ltd., Derby, England** represented by Philip Johnson, Managing Director and Jeff Williams, Sales Manager. Flamepro designs and manufactures clothing to protect against heat and flame.

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



P.O. Box 10346,  
Dublin 14, Ireland  
E-mail: fulcrum.consult@iol.ie  
www.fulcrum-consultants.com

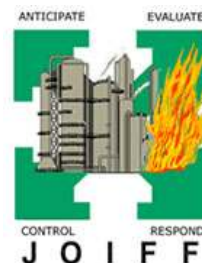
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**Edexcel Approved Assessment Centre**

**IFE accredited Course Provider**

**Secretariat of JOIFF**

**Facilitator of Training for JOIFF and others**



## THE BUNCEFIELD INCIDENT

Members of JOIFF were dismayed to read the recent letter from Chief Fire Officer Roy Wilshire of Hertfordshire Fire and Rescue Service (HFRS), in the March edition of *Industrial Fire World* (P.16-18) about the major fire that occurred in Buncefield United Kingdom, in December 2005.

JOIFF would not wish to see this matter develop into one of needless tit-for-tat letter writing but we feel that due to the significant contribution from industry at the Buncefield incident, particularly from JOIFF Members, we would be failing in our duty to our members in not adding the necessary clarity to this matter which appears to be required.

It is assumed from the comments made by CFO Wilshire in that article that his position is one informed by information conveyed to him rather than from eyewitness accounts as there are clear inaccuracies in his letter which in themselves are a matter of regret.

Without exploring the whole of the letter, we wish to refer to the involvement of JOIFF Member Kelvin Hardingham and clarify the reason for Mr Hardingham's attendance and the role he played during his time at the scene.

We can confirm that in the early stages of the Buncefield incident, a JOIFF member was contacted by the UK Office of the Deputy Prime Minister (ODPM) seeking information regarding the status of the professional industrial firefighting capabilities within the UK. During the conversation, they commented to the ODPM that JOIFF Member Williams Fire and Hazard Control had a UK representative (Mr Hardingham) available and willing to attend the scene in an operational capacity to provide expert support. This support was subsequently requested formally by the ODPM. Mr Hardingham's attendance was not requested by Essex Fire and Rescue Service as was stated in the article in the *Industrial Fire World*.

JOIFF has consulted its members who attended the incident at Buncefield to clarify the position of Mr Hardingham throughout the duration of the incident and they confirmed that Mr Hardingham had a significant command role, actively directing firefighting operations and was a key industrial figure liaising between Hertfordshire Fire and Rescue Service (HFRS) operations firefighting coordinator and the incident commander, located at bronze command.

CFO Wilshire stated that "As Mr Hardingham has no role in the command structure he would have no detailed knowledge in the command discussions, especially at those at Gold situated 15 miles from the scene". This is correct in so far as he had no formal *nominated* role in the HFRS Incident Command System, he was directly involved in the Incident Command System of the industrial fire services on scene, which should have been recognised and recorded as an integral part of the HFRS Incident Command System. Mr Hardingham's contribution to the decision making process at bronze command was such that effective

decisions could be made on the basis of sound, professional advice which he repeatedly provided. It is widely recognised by those who were present that if such advice had been absent, the efficacy of bronze decision-making would have been severely hampered and as such it is disingenuous to suggest that he played no effective role at this level.

JOIFF is at a loss as to why the opportunity should be taken to criticise one of our members and feel it is not in the interests of improving relations between local authority fire services and industry to do so. The outcome of the collaborative response to Buncefield should be recognition of the success that can be achieved by working together not seeking to score points retaining credit which may be due to others.

### Editor's Note:

*For those who do are not aware of the Incident Command Structure used in the United Kingdom and referred to above, we provide and explanation:*

There are 3 levels of Command in the structure adopted by the UK Fire Service, Bronze Command which deals with the operational issues of the incident, Silver Command which deals with the tactical issues of the incident and Gold Command which deals with the strategic issues raised during an incident.

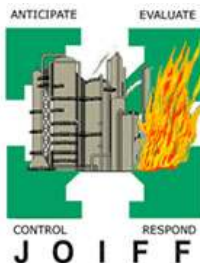
At Bronze, operational level Sector Commanders command the firefighting crews and as this is "the cutting edge" of the incident, timeframes are short and it is important to take quick decisions as necessary and continually appraise issues of developing risk as the incident is dealt with.

The person in charge at Silver Command is the Incident Commander who operates at a tactical level and s/he has the important role of co-ordinating the Sector Commanders. Silver is located where there are good communication links to all, especially Bronze. At fires it is normally close to Bronze to facilitate this communication link between tactics and tasks. It could be in a purpose built command centre or in an office that is designated as such for an incident.

At Buncefield the Inter-agency Silver was initially located at Leverstock Green Hall close to the incident, but was relocated, due to the complexities of the incident, some distance away to Watford Police Station due to the better communication systems there. However the 'Fire Silver' was relocated to the Hertfordshire Fire Control unit, close to the incident and Bronze, with an inter-service liaison fire officer sent to the inter-agency Silver in Watford.

There may be a Silver cell set up where the incident commander, a high ranking Police Officer, Environment Agency etc, meet at regular intervals to discuss what is passed down to them from Multi-agency Silver and discuss the information to be passed back to Multi-Agency Silver.

Strategic Command at Gold level rarely comes into play unless the incident is major and protracted and in these cases it usually involves multi-service operations and might



involve political considerations and policies that extend beyond a single organisation. Gold Command usually does not directly influence operations at Silver or Bronze levels. Gold Command is usually located at a distance from the incident and is intended to take a longer view of the implications of the incident. Company representatives who are authorised to

make long term strategic decisions and to commit company finance without reference to anyone else are requested to attend Gold Command.



## PRESS RELEASE: DUPONT MARKS 40TH ANNIVERSARY OF NOMEX® FLAME RESISTANT FIBRE

**D**uPont™ NOMEX®, the heat resistant fibre used in products ranging from protective apparel to electrical insulation, marks its 40th anniversary this year. NOMEX® brand fibre, is an inherently flame-resistant, high-temperature fibre that will not melt, drip or support combustion in air. It provides outstanding chemical resistance across a diverse range of applications and is offered in paper, felt, fabric and fibre forms, but it is perhaps best known as a critical component in protective apparel.

Due to its unique combination of flame protection, durability and mobility, today more than three million firefighters around the world are protected by turnout gear, stationwear and accessories made of NOMEX®. The fibre is also used in apparel worn by military pilots and combat vehicle crew; auto racing drivers, pit crew members and track officials; and industrial workers at risk from flash fire and electric arc hazards.

William J. Harvey, vice president and general manager – DuPont Advanced Fibers Systems said, "The world is a safer and more energy efficient place as a result of NOMEX® and its innovative applications. Over four decades, the NOMEX® brand has become synonymous with safety and protection. We continue to invest aggressively in the development of new NOMEX® applications to help solve the world's evolving needs."

DuPont introduced NOMEX® in woven and non-woven forms in 1967. While NOMEX® grew out of fundamental R&D work done by Paul Morgan and Stephanie Kwolek, Wilfred Sweeny unveiled the discoveries leading to the final development of NOMEX® at the DuPont Experimental Station in Wilmington, USA (the company's global R&D headquarters). Building on the earlier research, Sweeny found a way to make a high-molecular-weight product that could be spun into a tough crystallisable fiber (later named NOMEX®) that possessed outstanding thermal and flame-resistant properties. In 2002, Sweeny was recognised for his contributions with a Lavoisier Medal, the highest honor of science excellence awarded by DuPont.

Committed to continuing to deliver innovation and strong customer service, DuPont last year announced a \$100 million global expansion plan to increase worldwide

capacity for NOMEX® and support exciting new applications.

Over the last 40 years in the UK, safety innovations surrounding NOMEX® have included:

Thermal Assessment: Equipment to measure the performance of thermal protective apparel when exposed to fire, ie the DuPont™ THERMO-MAN®, the DuPont™ ARC-MAN® and the DuPont™ Molten Metal Man.

NOMEX® Metal Pro - a multi-component protective yarn (patent pending), using a new type of NOMEX® fibre with inherent flame-resistance and KEVLAR® fibre.

NOMEX® Tough Plus - a new outer fabric with low surface weight and improved thermal properties.

Increased comfort in garments made of NOMEX®, brought into the market via DuPont's NQP partners and new colours of NOMEX® Comfort.

In addition to its use in protective apparel, NOMEX® brand paper has been providing high-performance electrical insulation for motors, transformers and generators for decades. The electrical, mechanical and thermal properties offered by NOMEX® help extend the life of electrical equipment, as well as reduce premature failures and repairs. Honeycomb of NOMEX® paper is used for lightweight structural support and helps substantially improve the performance of most commercial aircraft. NOMEX® paper can also be found in consumer appliances, industrial equipment and transportation equipment such as high-speed trains.

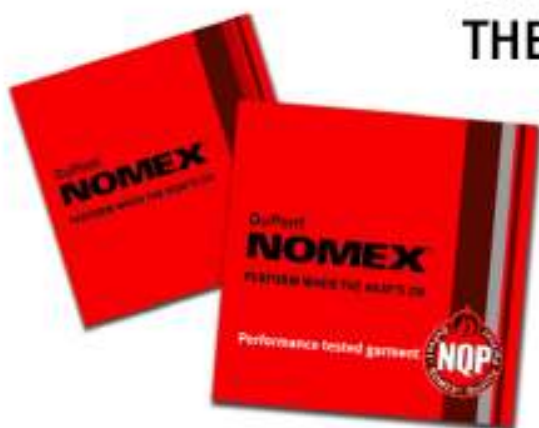
*DuPont is a science company. Founded in 1802, DuPont puts science to work by creating sustainable solutions essential to a better, safer, healthier life for people everywhere. Operating in more than 70 countries, DuPont offers a wide range of innovative products and services for markets including agriculture, nutrition, electronics, communications, safety and protection, home and construction, transportation and apparel.*

*For more information on DuPont, please visit [www.dpp-europe.com](http://www.dpp-europe.com)  
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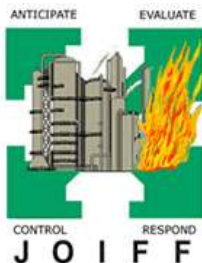


[www.dpp-europe.com](http://www.dpp-europe.com)  
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Picture courtesy of 'West Midlands Fire Service' - Photographer Ted Oskenden



## THE INSTITUTE OF FIRE SAFETY MANAGERS

### ONE DAY CONFERENCE – MONDAY 2 JULY 2007

AT THE SOUTH YORKSHIRE FIRE AND RESCUE TRAINING CENTRE, Beaver Hill Road, Handsworth, SHEFFIELD S13 9QA

CONFERENCE PROGRAMME. Chair for the day: Dr Andrew Platten

TIME	SUBJECT	SPEAKER
0930 - 1000	Registration and Coffee	
1000 - 1015	Welcome and Introduction	Dr. Andrew Platten
1015 - 1100	'Changes to Firecodes'	Paul Roberts, Department of Health
1105 - 1150	'Fire Detection Technology – Combating False Alarms'	Don Scott, Siemens
1155 - 1240	'Virtual Reality Training'	Martijn Boosman, E-semble, Delft, Holland
1240 - 1300	'Modernisation of the British Fire Service'	Mark Smitherman Chief Fire Officer South Yorkshire Fire & Rescue Service
1300 - 1345	LUNCH	
1350 - 1435	'Approved Document B' Non-domestic	Andy Cloke South Yorks. Fire & Rescue Service
1440 - 1525	'Micro Drop High Pressure Water Mist Systems – The Intelligent Use of Water'	Andrew Shiner, TYCO.
1530	Closing remarks and Registration for CPD	A. Platten/R. Docherty

\* This event will attract 4 Hours CPD certificated through the IFSM for all those who have attended throughout the whole conference.

#### **CONFERENCE DELEGATE FEES:-**

**MEMBERS - £20**

**MEMBERS OF JOIFF - £20**

**MEMBERS OF THE BRITISH FIRE CONSORTIUM - £20**

**NON-MEMBERS - £25**

The conference fee includes all refreshments and buffet lunch. The maximum number of delegates is restricted to 100 so please register early by sending your cheque, made payable to the 'Institute of Fire Safety Managers', quoting your membership number and/or affiliation, name of company etc. to: The Conference Secretary, The Institute of Fire Safety Managers, 270 Bradshaw Meadows, Bradshaw, BOLTON, BL2 4NF.



## MEMBERS' SECTION

**JOIFF Meeting in Dubai**

The first meeting of JOIFF Members in the Middle East Region took place on 21st March 2007 in Dubai attended by representatives from 4 JOIFF Members in the Region and from the JOIFF Secretariat. Also attending were Michael Sorensen from JOIFF Member Alert Disaster Control, Singapore and Steve Fahey from JOIFF Corporate Member Simulation Ters. England, who both gave presentations to the meeting on aspects of their activities in the field of Emergency Response.

It was agreed by all present that there would be great advantages in developing JOIFF in the Region and all agreed to assist with this aim. When JOIFF is strong enough in the Region, it will be important to become involved in discussions with Regulatory Authorities.

It was also agreed that future meetings should take place, probably once per year and probably in different locations in the Region each time, if possible though not necessarily to coincide with a major Industry event. Members in the Region agreed to commence contacting colleagues in Industry to invite them to participate with JOIFF.

**ORCCID**

Discussions continue between JOIFF and the UK Chief Fire Officers Association (CFOA) in the development of ORCCID which stands for "Operational Response to COMAH (Seveso II) and Catastrophic Incidents and Disasters". The aims of ORCCID are to develop and provide a Mutual Aid Scheme to assist in the mitigation and post incident recovery of ORCCID-type events. Persons who will participate in ORCCID must agree to take responsibility to deliver the work they undertake and

to deliver it impartially and on a voluntary basis.

ORCCID will be managed by an Executive made up of representatives of JOIFF and CFOA and it is intended that a Board will be set up chaired by a Member of the Executive and will comprise the Leaders of various Work Streams that will be set up to cover aspects such as legal issues, training and competence, technical aspects, audit and verification, emergency planning including inter agency liaison, operational and tactical issues, media and public interest and post incident recovery. It is anticipated that ORCCID will be officially launched during the fourth quarter of the year although it is actually already operating and has been engaged in a number of incidents.

Members will be advised through the JOIFF Shared Learning email network of the time and venue of the first meeting where members will be invited to volunteer to participate in the work of ORCCID.

**JOIFF Annual General Meeting.**

Following receipt of an invitation from the South African Petrochemical Fire Chiefs Committee the Executive have given notice that the next Annual General Meeting of JOIFF will take place in Durban South Africa on 7th November 2007. All JOIFF Members attending the meeting are invited to attend the November meeting of the South African Petrochemical Fire Chiefs Committee which will take place in Durban on 8th November.

## ESSEX COUNTY FIRE AND RESCUE SERVICE

Essex County Fire and Rescue Service (ECFRS) is the first United Kingdom Local Authority Fire Brigade to become a member of JOIFF. ECFRS provides cover to Essex County whose current population is 1.6 million and its current risk profile represents a diverse range of community risk with the County bordered by coastline populated by seaside resorts that attract five to six million visitors per year, over 7500 km of roads including a number of major arterial routes, a number of rail links

including a section of the Channel tunnel rail link in the South of the County, Stansted Airport, the third busiest passenger airport in the UK which serves 38 airlines flying to over 145 destinations expected to serve 25 million passengers per year by 2008, a complex range of industries including a large agricultural community, 30 COMAH (Seveso II) sites, a large oil refinery and retail shopping centres, the shipping terminals of Tilbury and Harwich and a wealth of historic buildings including 14,000 listed buildings and

56 listed churches. ECFRS has an establishment of 965 full-time and 539 retained firefighters, 236 support and 45 Control Room staff. Operationally it is divided into seven Community Command areas with a total of 51 fire stations and its administrative Headquarters is in Brentwood. Training centres for the Brigade are located at Wethersfield, Witham and Orsett and there is a service vehicle workshop at Lexden, near Colchester, which maintains the operational equipment and fleet of



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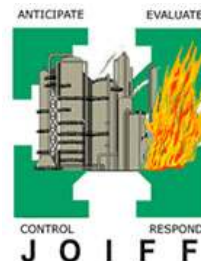


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130 fire appliances and 149 cars and vans.

In 1995, working with the Oil Refineries of Mobil and Shell, ECFRS were the first Brigade in the UK to introduce large volume application technology to industry as a whole. Through live demonstrations held in Essex they were part of the team who revolutionised application technology. ECFRS were very much involved in the successful extinguishment of the tank fires at the Buncefield Incident in December

2005 and provided a large amount of the specialist equipment used as well as effective and fully participative manpower and a Petrochemical Specialist Officer to operate within the Command System at the Incident.

ECFRS continually promote the development of closer working relationships between Local Authorities and Industrial emergency response and their Chief Fire Officer is the Lead UK Officer for CFOA in Firefighting Foam and Oil Terminal Incidents.

Representatives of JOIFF and ECFRS have been working together for over a year developing closer ties between the UK Chief Fire Officers Association and JOIFF and the most significant result of these discussions has been the establishment of ORCCID, a report of which is included in this and the last edition of The Catalyst.

## ESSEX COUNTY FIRE AND RESCUE LEGAL CONFERENCE

When people think of a fire service they imagine fire engines, hose jets and brave acts, but the modern fire service are privy to the same forces and pressures as all modern companies. All Fire Services are under all the same legal pressures which face modern companies and on top of this is a whole raft of fire laws which they all have to deal with. It is in helping services across the country deal with this tangled web of laws that led to Essex County Fire and Rescue Service (ECFRS) to hold the country's first legal conference aimed specifically at Fire laws and the legal issues faced day in and day out by Fire Services.

On April 2 and 3 delegates from fire services the length and breadth of the country gathered in the Radisson SAS Hotel at Stansted Airport to listen to experts in the field speak on all the subjects which affect fire services and authorities. Speakers included barristers Bernard Eaton, David Griffith-Jones, David Stotesbury, Iain Daniels, Kirsty Brimelow, Judy Stone and FBU General Secretary Matt Wrack.

Subjects covered included health and safety legislation, trade union law, new fire laws and the rules around corporate manslaughter.

The conference was organised by Roy Carter and Jayne Atkins of ECFRS Legal Team following on from a pilot conference which was held in 2006.

Roy said: "We have taken a good look at the major areas of law that affect Local Authority Fire & Rescue Services and other public sectors and this is reflected with the speakers we have had with us over the two days. With probably 10 of the leaders in their fields of expertise I am convinced that delegates have received the very latest of information enhancing their knowledge of the key areas of law delivered." "Plans are already underway for next

year's conference which will build on this year's success."

Kirsty Brimelow, who delivered an update on the new corporate manslaughter legislation, returned having been a key speaker at last year's pilot. Kirsty is also from 187 Fleet Street, and is a member of the Times Law Panel - one of 'Top 100 lawyers in U.K.' Invited onto the panel at its launch in 2007.

"It really is a pleasure to be invited back and to take part in this initiative. There are, without doubt, significant areas of law being discussed here and I must say I am very impressed with the eminence of the speakers.

"Well done again to ECFRS Legal. I hope that I will continue to be involved in this initiative in future years."

Dr Bob Doherty of Flamerisk said: "This was one of the very rare conferences that I went to and listened to ALL the speakers on both days! And in addition I learnt quite a few things."

The conference will now go from strength to strength building on the excellent foundation laid at this year's inaugural event.



**PRESS RELEASE:**  
**DUPONT ANNOUNCES NOMEX® MANUFACTURING  
 PARTNER NETWORK**

Goal: to Ensure Quality of Heat Protective Garments  
 DuPont, manufacturer of flame resistant fibre NOMEX®, is establishing a NOMEX® Quality Partner (NQP) network in Europe. Together with DuPont, a select number of spinners, fabric and garment producers will form closer product development and marketing links to deliver high performance heat and flame protective garments for use in Europe.

NOMEX® has set the standard in heat and flame protective apparel since its launch in 1967 and emergency services and workers in hazardous industries in over 80 countries around the world now benefit from its superior quality and continuous

“Our partners have long-standing relationships with European end users and detailed knowledge of their needs”, says Véronique Bernat. We bring a global perspective and unique competence in high-tech fibre science. The NQP approach will enable us to jointly anticipate and meet future market challenges with speed and insight”.

NQP partners will have privileged access to NOMEX® fibre innovation and DuPont’s technical expertise and its state-of-the art product testing facilities, including the unique THERMO-MAN® and ARC-MAN® instruments that enable the quality and performance of finished garments to be precisely monitored.



innovation.

According to Véronique Bernat, EMEA NOMEX® Industrial Marketing Manager, “Western Europe leads the world in many aspects of health and safety and this is reflected in both legislation and user expectations. It’s a challenging but potentially profitable growth opportunity for high quality products that combine outstanding performance with value”.

As markets become more demanding, the close alignment of supply chain resources is increasingly important to competitive success. DuPont expects the NOMEX® Quality Partner network to include between thirty and forty suppliers who share its commitment to quality and service, and that its development will get the benefits of innovation to the marketplace in efficient, cost-effective ways.”

Garments that meet DuPont performance standards will be identified by the NPQ Seal on new NOMEX® labels. These indicate not only that the fabric used in construction meets or exceeds international standards for heat and flame protection, but also that the finished product has been extensively tested so buyers can be confident about superior performance in use.

For more information on the NOMEX® Quality Partner programme and details of participating garment manufacturers and their products, visit [www.dpp-europe.com](http://www.dpp-europe.com).

DuPont is a science company. Founded in 1802, DuPont puts science to work by creating sustainable solutions essential to a better, safer, healthier life for people everywhere. Operating in more than 70 countries, DuPont offers a wide range of innovative products and services for markets including agriculture, nutrition, electronics, communications, safety and protection, home and construction, transportation and apparel.

For more information on DuPont, please visit [www.dpp-europe.com](http://www.dpp-europe.com), email [Carolyn@mconieagency.com](mailto:Carolyn@mconieagency.com), or call 01483 237230.

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# How Protect protects you

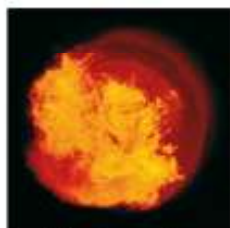
**TenCate Protect develops and produces fabrics for industrial and protective clothing.**

Customized end user solutions are sought together with other parties in the chain. Advanced specialized technologies, materials, constructions and finishes create state-of-the-art heat and fire protection as well as anti-static, fluorescent, reflecting and chemical resistant properties. The parameters to respond to your demands for safety are durability, comfort, colour fastness and low maintenance.

With its advanced fabric collection TenCate Protect protects you.

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## PRESS RELEASE: ANGUS FIRE NEW WATER SUPPLY UNIT FOR SEMBCORP

SembCorp Utilities UK has recently taken delivery of a new Water Support Unit (WSU) vehicle that transfers water where and when it is needed, in sufficient quantities and at the right pressures. Built by J&RA Hawkes & Sons, it features the latest Angus Fire FETCH technology for laying out and recovering Hi-Vol large-diameter hose.

Based on Teesside in the North of England, SembCorp provides emergency response services to one of the highest concentrations of chemical plants and refineries in Europe. "The WSU is a major addition to our emergency response capability" says Greg Richardson, SembCorp's Protection Technical Manager. "It carries all the equipment we need to deal with any type of incident involving the delivery or removal of large quantities of water for fire fighting or flood relief operations."



*SembCorp's new Water Support Unit attracts the crowds at Fire & Rescue 2007 Exhibition*

### Hose Deployment

The WSU uses Angus Fire Hi-Vol 5 inch (125 mm) diameter hose to move water quickly over long distances with minimal friction losses. It is manufactured to the same high standards as Angus Duraline fire hose. Featuring a specially formulated high grade synthetic rubber extruded through a synthetic woven jacket, it offers the same high resistance to abrasion, heat, chemicals and oil during operational use, and to UV, ozone and weathering during storage.

A total length of up to four kilometres of Hi-Vol is housed on the WSU in two storage pods separated by a central walkway. The hose is layed out at high speed simply by opening the rear doors of the pods, pulling out the first hose coupling manually, and then driving the vehicle forward. The hose cascades down on to the ground and is fully deployed in a matter of minutes.

Planning hose configurations is carried out using the Angus Fire HoseCalc software program. SembCorp simply enter a hose configuration and HoseCalc carries out the pressure

loss calculations to give an outlet pressure.

### Hose Retrieval

After an incident the FETCH automatic recovery system enables the hose to be picked up from the ground while the vehicle is driven slowly forward alongside it. It brings the Hi-Vol back into the storage pods with the minimum of physical effort, avoiding fatigue and injuries during emergencies and training exercises.

"FETCH enables us to operate well within the Manual Handling Regulations" explains Greg Richardson. "Gone are the days when we would expect our fire crews to lift coils of hose that can weigh more than 50 kg each. With FETCH we can now do it much more quickly and with less manpower."

Mounted on the front offside corner of the WSU, the compact FETCH system comprises a simple but cleverly designed twin-roller friction system. One of the large-diameter rollers is rubber-coated and the other drives a high grip conveyor belt. Drive to the rollers is provided by a geared chain, which in turn is driven by a diesel-driven hydraulic power unit fitted to the vehicle chassis.

The unit allows couplings to pass through it without the need for any complicated electronic sensors. "We wanted a simple design with as little as possible that could go wrong in an emergency, and if anything did go wrong we wanted to be able to repair it quickly in the field", says Greg Richardson. "Angus have achieved this by leaving unnecessary complications out of the design that would only have made the unit less reliable and affordable."

The WSU is capable of recovering 1 km of hose in about half an hour with minimal manpower. Water drains from the hose

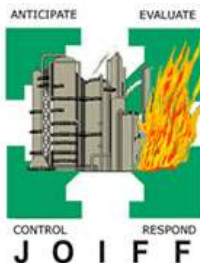


*SembCorp Utilities UK new Water Support Unit featuring Angus Hi-Vol and FETCH technology*

enabling it to be stored flat in the containers. It also features a special electric start diesel power pack fitted with engine over-speed shutdown system and spark arrestor exhaust allowing the vehicle to be operated in hazardous areas.

### Vehicle Features

Based on a Volvo FM300 6x2 chassis with a Euro IV engine, the WSU was specially modified by J&RA Hawkes & Sons in Middlesbrough. Hawkes is the authorised distributor for Angus Fire in the North of England and also for Sides



France, the second largest supplier of fire fighting vehicles in Europe and sixth in the world.

The body is constructed from alloy with under-body coating and wax oil to avoid corrosion problems. The vehicle is fitted with a front lighting bar, front and rear indents, a siren system, emergency stop buttons in both the cab and the rear middle hose lay bed. The vehicle also has a dual camera system to the cab, one for reversing and one to the central walkway.

The WSU carries a wide range of water support equipment in including a full range of tough and lightweight field-replaceable Angus Fire Corru-Grip Storz couplings, Jumbo Siamese 4-way collector, 5-way dividers and a selection of 2.5 and 3 inch fire hose.

### Specialist Fleet

The WSU is the latest addition to SembCorp's fleet of

specialist appliances which include a range of industrial foam multi-purpose fire trucks filled with Angus Tridol 1x3 fire fighting foam. It is based at the Wilton International site and is crewed by specially trained members of the SembCorp team. It is now available for use at all three sites focussed on its Teesside industrial heartland of Wilton, Billingham and North Tees as well as for mutual aid with industrial and neighbouring local authority fire services.

Angus Fire FETCH technology is widely used by industrial, local authority and airport fire and rescue services throughout the UK. Angus Fire is part of UTC Fire & Security, a United Technologies Corp. (NYSE:UTX) business unit, which provides fire safety and security solutions to more than one million customers around the world. UTC Fire & Security is headquartered in Connecticut, USA.

## PRESS RELEASE:

### INTERNATIONAL CALL FOR APPLICATIONS FOR PRESTIGIOUS BUSINESS SAFETY

Applications for the 6th international DuPont Safety Awards are currently underway. In order to meet the deadline for initial applications, companies will need to register their interest and submit a brief summary of their achievements by 29 June. Winners of five categories will each receive a prestigious award, presented by E.I. du Pont de Nemours and Company at the 2007 Leaders Forum on Safety in Geneva on 18th October 2007.



The DuPont Safety Awards were launched in 2002 with the purpose of stimulating individual or collective initiatives for safety enhancement and accident prevention in the Europe, Middle East and Africa (EMEA) region. This year, DuPont - a global company widely recognised for its excellent performance in safety and health - will present awards to five individuals, companies or organisations selected as the most deserving in one of the following categories:

- Performance Improvement
- Innovative Approach
- Visible Management Commitment
- Sustainable Business Impact
- Cultural Evolution

The awards are organized by an independent organizing committee, called Nexdor. Together with a panel of renowned experts, this committee considers all programmes, projects or contributions in the field of safety in the workplace or in society in general. It also considers printed works containing important innovations or implementations of improvements connected to safety. Details of the categories, online application forms and a wealth of information on the DuPont Safety Awards and Leaders Forum can be accessed at [www.leadersforum.dupont/awards](http://www.leadersforum.dupont/awards).

In 2006, DuPont Safety Awards were presented to: Nissan Motor Manufacturing UK Ltd for Business Impact, Hadeed Saudi Iron & Steel Company for Cultural Evolution, Danone Biscuits Division for Felt Leadership, OMV Aktiengesellschaft for Innovative Approach and US Steel Kosice for Performance Improvement. All companies benefited from extensive media coverage throughout Europe, Middle East and Africa region, joint marketing with DuPont and recognition as movers and shakers by staff, customers, associates and business competitors. For your chance to win an award, visit [www.leadersforum.dupont/awards](http://www.leadersforum.dupont/awards) now!

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## JOIFF TRAINING NOTES

**J**OIFF accredited training is developed systems of accreditation successful students and the courses within a Competency Based for training providers and minimum in which they qualify are retained. Training framework and involves instructional requirements for There is growing recognition not only course content, as also Instructors. All students who worldwide of the JOIFF Certificate of critical to the effective provision of successfully complete a JOIFF Competence which is coming to be training are the facilities of the accredited course/programme are regarded as a passport to the level of training provider/training issued with a JOIFF Certificate of employment and rank which an establishment and the capabilities of Competence which has its own emergency responder's qualifications the instructing staff. JOIFF has unique number. Records of all enables and entitles them to deserve.

### PROGRAMME FOR 2007/8 - JOIFF ACCREDITED TRAINING ESTABLISHMENTS:

JOIFF accredited Course	Dates	Venue
5 day Team Leader	10 - 14 Sept 2007	Washington Hall
	19 – 23 Nov 2007	Serco IFTC
	10 - 14 March 2008	Washington Hall
	9-11 July 2007	Washington Hall
3 day Occupational Firefighter	22-24 Oct 2007	Washington Hall
	14 – 16 Nov 2007	Serco IFTC
	10-12 Dec 2007	Washington Hall
	11-13 Feb 2008	Washington Hall
	11-12 June 2007	Washington Hall
	2 - 3 August 2007	Washington Hall
	8-9 October 2007	Washington Hall
2 day Practical Firefighting	12 - 13 Nov 2007	Serco IFTC
	7-8 Jan 2008	Washington Hall
	5 – 8 Nov 2007 (Full)	Washington Hall
2 day Practical Firefighting refresher	18-22 June 2007	Washington Hall
	3-7 Sept 2007	Washington Hall
5 day Industrial Firefighting (Basic)	12-16 Nov 2007	Washington Hall
	14-18 Jan 2008	Washington Hall
	3-7 March 2008	Washington Hall
	21Jan -1 Feb 2008	Washington Hall
Breathing Apparatus Instructor	2-6 July 2007	Washington Hall
Breathing Apparatus Instructor Refresher	19-23 Nov 2007	Washington Hall

The dates above have been provided by the UK based JOIFF accredited training establishments. If the dates are not suitable for you or your own specific training requirements are not listed below, contact Fulcrum Consultants who will be happy to try to facilitate you.

For further information about JOIFF accredited on-Site Competency Based Training Programmes, the range of Fire Service NVQs and any other aspect of JOIFF Training, please contact the JOIFF Secretariat details below.



## CONFERENCE AT MOL DANUBE REFINERY.

The 4th International Conference for Fire Chiefs in the Chemical Industry took place in MOL Danube Refinery at Százhalombatta, Hungary on 22nd to 24th May 2007. The Conference was attended by more than 100 delegates from Countries all over Europe and from the USA and Japan. Speakers from 11 Countries gave papers on subjects which included reports on fires, emergency planning, strategies for emergency response, firefighter training etc. JOIFF was represented on the programme with presentations entitled "Training for Competence – The Standards" by JOIFF Secretariat member Alec Feldman and "Training for Competence – The JOIFF way" by Chairman of the JOIFF Training Standards Committee Gerry Johnson. Interspersed throughout the 3 days were demonstrations of the latest equipment and techniques used in the protection of the Chemical Industry.

The Hungarian hospitality was excellent and matched by the wonderful weather. The Conference was organised by FER Industrial Fire Department who provide cover to the biggest refinery of MOL Plc. and Dunamenti, one of the largest power plants in Hungary. The fire brigade consists of almost 100 firefighters who are on duty as 3 crews working in 24/48 hour shifts. The main base of FER is the fire station that is situated on the refinery and on the site of the power plant there is also cover with a duty team and two fire appliances. As well as attending fire incidents in the refinery and power plant, the Brigade is responsible for rescue from heights and confined spaces, dealing with hazardous materials incidents, monitoring gas concentrations, fixing leaks on pipelines environmental protection etc. FER also provide the ambulance service to the sites.

## DIARY OF EVENTS

### 2007

- June 3<sup>rd</sup> - 7<sup>th</sup> **NFPA World Safety Conference and Symposium**, Boston, Massachusetts, USA.
- July 12<sup>th</sup> - 13<sup>th</sup> **IFE 2007 AGM, Conference and Exhibition**, The University of Cambridge, Churchill College, UK
- Sept 3<sup>rd</sup> and 4<sup>th</sup> **IFE Conference Foam Attack ? Firefighting Foam and Environment**, Bolton, England.  
12<sup>th</sup> - 14<sup>th</sup> **2007 China International Emergency Assistance Equipment and Technology, Exhibition and Forum**, Beijing International Convention Centre China
- Nov 7<sup>th</sup> **JOIFF AGM**, Durban, South Africa  
28<sup>th</sup> - 29<sup>th</sup> **The Emergency Services Show**. Stoneleigh Park, Coventry, England
- Dec 9<sup>th</sup> - 13<sup>th</sup> **FDIC (The Fire Department Instructors' Conference)**, Bahrain.

**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.*

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