

THE CATALYST

Q1 2021



JOIFF

THE INTERNATIONAL ORGANISATION FOR
INDUSTRIAL EMERGENCY SERVICES MANAGEMENT

1. JOIFF & GESIP Agree Partnership
2. JOIFF Industrial Fire & Hazard Management Virtual Conference 2021
3. Can Aspirated Type High Expansion Generator Improve System Dependability?

ALSO:
Foam Feature
High Hazard Industry Transition To Fluorine Free Foam
PFAS Regulation
Navigating PFAS Remediation

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JOIFF

MESSAGE FROM THE CHAIRMAN

ABOUT JOIFF

JOIFF, the International Organisation for Industrial Emergency Services Management is a not-for-profit organisation dedicated to developing the knowledge, skills and understanding of personnel who work in and/or who are required to provide emergency response to incidents in Industry, primarily High Hazard Industry, with the aim of ensuring that risks in Industry are mitigated and managed safely.

The 4 pillars of JOIFF aiming to support its Membership in preventing and/or mitigating hazardous incidents in Industry are: Shared Learning – improving risk awareness amongst JOIFF Members; Accredited Training – enhancing operational preparedness in emergency response and crisis management; Technical Advisory Group – raising the quality of safety standards in the working environment of High Hazard Industry and Professional Affiliation - networking and access to professionals who have similar challenges in their work through Conferences and other events and the prestige of being a member of a globally recognised organisation of emergency response.

Full Members of JOIFF are organisations which are high hazard industries and/or have nominated personnel as emergency responders/hazard management team members who provide cover to such organisations. Commercial Members of JOIFF are organisations that provide goods and services to organisations in the High Hazard Industry.

JOIFF welcomes enquiries for Membership - please contact the JOIFF Secretariat for more information.

JOIFF CLG is registered in Ireland. Registration number 362542.
Address as secretariat.

JOIFF is the registered Business Name of JOIFF CLG

ABOUT THE CATALYST

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Dear JOIFF Members and Catalyst readers,
At the start of the new year, I would like to take this opportunity to extend best wishes to all of you on behalf of the JOIFF Board!

May 2021 be prosperous in all aspects of your lives with all the challenges facing the world after the particularly challenging 2020 and the continuation of Corona still present all over the world.

From a JOIFF perspective, we are facing a remarkably busy agenda for 2021 starting with the first ever Virtual Conference and Exhibition in high hazard industry emergency services management in February 2021 and then the continual Shared Learnings in the form of on-line seminars planned for the rest of the year.

This brings me to a matter that has been keeping me occupied for some time now – over the years a number of individuals have worked hard on their personal development in both the JOIFF Accredited eLearning programmes and in their job roles. Many have received recognition of their efforts in the form of JOIFF awards - to put this in perspective, JOIFF has awarded the following accolades over the years: -

• JOIFF Diploma (Dip.JOIFF)	252
• JOIFF Technician (Tech.JOIFF)	21
• Leadership 1 (Team Leader)	18
• Leadership 2 (Officer)	17
• JOIFF Graduate (Grad.JOIFF)	16
• JOIFF Membership (MJOIFF)	22
• JOIFF Associate Membership (AMJOIFF)	3
• JOIFF Fellowships	16

The feedback that we have received from many of the recipients of JOIFF awards is that they found their association with JOIFF challenging and enjoyable. We would like to continue this association with these people but unfortunately, for many, there has been little or no contact with JOIFF since after receiving these awards.

I would like to invite any of these esteemed individuals who might be reading this message to contact us if there are any ways that they see that they may become actively involved in building the present and future of JOIFF.

This invitation is of course also extended to all members of JOIFF – we would really like to hear from you with feedback on what you would like to see happening in JOIFF - your organisation - and to suggest any areas in which you would like to get involved within JOIFF.

There are many possibilities for consideration. Perhaps there are some subjects in Emergency Services Management on which a JOIFF Guideline could be produced, consider volunteering to participate in the programme of JOIFF's on-line seminars; submit an article for publishing in The Catalyst; those who may be in the position to do so, share lessons learnt in real incidents in which they were involved; technical knowledge sharing with all the members of JOIFF – there are many possibilities, please grasp them and assist us in our work to grow JOIFF in size, stature and influence to benefit Emergency Services Management Worldwide .

I really hope that you will take up this challenge for 2021 and to all holders of JOIFF awards and to JOIFF members, I look forward to hearing from you!

I trust that you will again enjoy this edition of the Catalyst and my appreciation to every contributor of articles and to our advertisers and then especially to The Catalyst team for the tremendous effort to put all of this together!

JOIFF greetings to all of you until next time.

Regards,

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JOIFF AND GESIP AGREE PARTNERSHIP

The Directors of JOIFF are pleased to announce the setting up of a partnership between JOIFF, the International Organisation for Industrial Emergency Services Management and GESIP - Groupe Etude Sécurité Industrie Pétroleum (Petroleum Industry Safety Study Group) – France.

GESIP, established in 1953, offers services, training programmes and advice to industrial and logistics sites in the field of toxic risks, fire and explosion control as well as crisis management. Members of GESIP are drawn from diverse industry sectors including Airports, Chemicals, Oil and Gas, Sanitation, Waste Management, Storage and Distribution.

JOIFF and GESIP have the same mission which is to help improve safety performance and to promote a strong HSE culture in the working environment in which each organisation operates. During the

coming months JOIFF and GESIP will be discussing subjects of interest to members of both organisations with the aim of information exchange, discussions, setting up joint Working Groups, possible new Guidelines and Technical publications, possible joint Shared Learning events etc. An important subject of the joint discussions will be effective and good quality training in Emergency Services Management which forms an important part of the activities of both JOIFF and GESIP.

The Directors of JOIFF and of GESIP look forward to working together to develop this partnership.



JOIFF



GESIP, JOIFF'S NEW PARTNER

Risk management is based upon the knowledge of events and the sharing of experience. Since 1953, Gesip has been reinforcing human safety and facility integrity by sharing its knowledge through offering expertise and specialized training programmes. Gesip is a community of over 60 companies working together to improve industrial safety. Having developed an internationally recognized expertise, Gesip has become a reference for industrial safety matters

We work in the field of toxic risk, fire, explosion and crisis management. Gesip's vocation is to help improve safety performance and promote a strong HSE culture. To carry out our mission, we rely on a team of specialists from industry and public emergency professionals. The unique alliance of capitalized knowledge, industrial members, human skills and full-scale infrastructure, allows us to offer high added value services. Gesip owns two technical platforms for testing and training that are unique in Europe. They are equipped with full-size training units within industrial amenities. We have also published more than 100

guides and technical supports. Gesip has been supporting beyond 100 clients for over 20 years.

Industrials are well aware of the regulations and have the means to control industrial risks. However, zero risk does not exist. That is why the operational and managerial teams must be prepared to act and be effective in crisis situation. Disaster management must have been the subject of training in advance, both from a managerial and operational point of view. To effectively manage a crisis, it is essential to prepare, to know how to organize interventions and to be able to anticipate. This is what Gesip provides to



its members and customers.

Gesip works with industrial players in several ways.

To start, we bring together experts around major issues to develop technical guidelines. They constitute a reliable foundation, on which the plant operators can rely for the management of the risks associated with their activities.

We then support manufacturers in consulting and auditing in reviews of procedures and installations. The services covered include the implementation or the updating of an emergency response plan, safety management procedures, the adaptation of the fire control system. Finally, knowledge sharing being an invaluable wealth, we offer training courses combining theory and practice. This can be in English, in French or any languages on your premises or our technical platforms.

Furthermore, Gesip owns technical platforms in Vernon and Roussillon (France), equipped with full-size training units within industrial amenities. These technical platforms are former industrial facilities, the perfect place to train with real tank fires and other industrial equipment such as loading station, flanges and flares, manufacturing units. The trainees are immersed in real conditions with a large range of fuels fire like petrol, kerosene, gas, alcohol. This is the unique place in Europe to be trained on large scale hydrocarbon fire.

Returns on the incidents stress the importance of these real-life scenarios. Our technical platforms provide all the necessary facilities to:

- Set and extinguish large static and dynamic fires together with a large range of fuels.
- Intervention in confined environments.
- Drills in toxic or corrosive environments,

- Laboratory demonstrations of hazardous phenomena,

- Crisis management training with equipment and rooms that replicate industrial environments including 4D dynamic simulators.

Gesip facilities are also used to perform real-life tests of equipment or devices to improve the safety of the industrial sites.

FOAM CONCENTRATES : TEST IN REAL CONDITIONS

Thanks to our technical platforms, which are unique in Europe, we carry out performance or acceptance tests of materials and equipment likely to improve the safety of industrial sites.

As an international reference, Gesip performs several programs to evaluate the new generation of foams and provides services to monitor their performance throughout their life cycle. One of our protocol, selects particularly high-performance foam concentrates. Thus, equipping fire installations with these foam concentrates makes it possible to ensure good efficiency of the defenses and, when locally allowed, to substantially reduce the quantities of foam concentrates stored.

A LARGE SCALE PROJECT

To continue to improve industrial safety, Gesip finalized the construction of a fire pit unique in the world with extraordinary dimensions.

The fluorine-based foams are very efficient in extinguishing however, scientific research has shown that their perfluorinated components can be harmful to the environment and

to human health. These products and associated substances have been included in the list of persistent organic pollutants, the use of which must be phased out.

For this reason, manufacturers of firefighting foam are investing in the development of new high performance fluorine free foam concentrates suitable for various applications. This is a big challenge, as high-risk areas such as the chemical and petrochemical industry need the best performing foam concentrates.

Before being launched on the market, these new emulsifiers must be tested on real fires under conditions as close as possible to reality. However, to date, there is no infrastructure in the world to test their effectiveness on large-scale fires. That is why, Gesip has built a 300 m2 and 50m long fire pit at its center in Vernon (Normandy).

This industrial facility, which is unique in the world, make possible to test the progression of a foam in pool fire conditions over a long distance. It is now possible to join the international research program launched by Gesip and Lastfire, the next large tests are planned in April and November 2021. This fire pit is ideal for performing real-scale tests, it is the best way to know the effectiveness of your products.

GET IN TOUCH

For more information, please visit our website: www.gesip.com

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