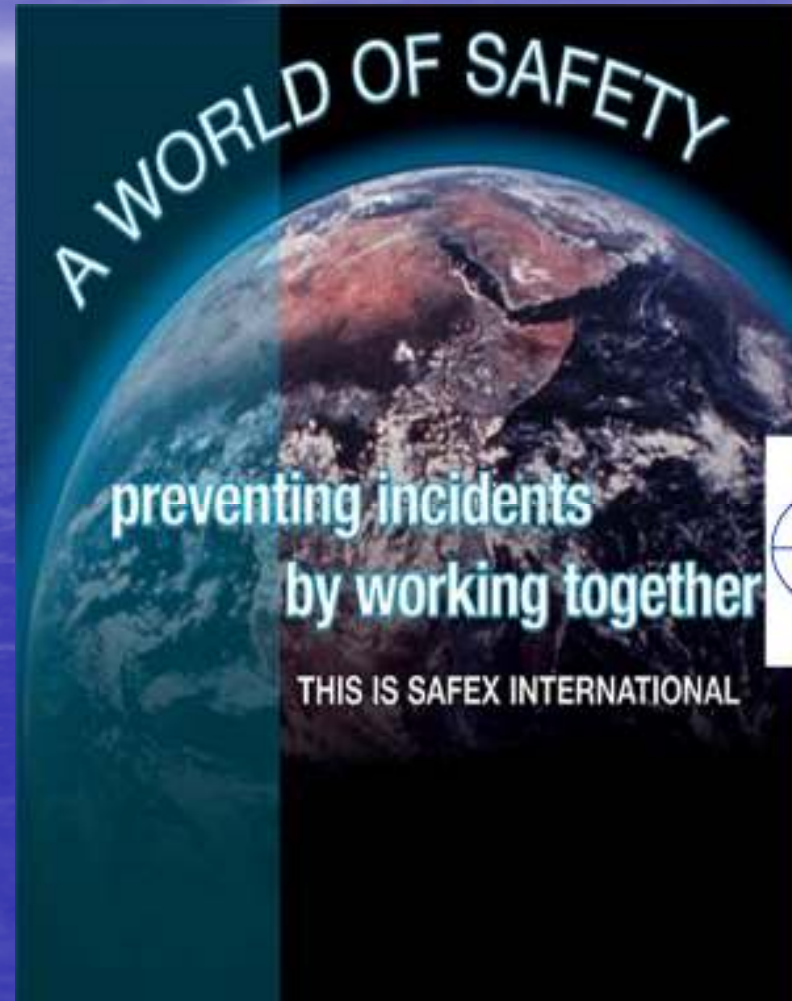


www.safex-international.org



www.safex-international.org

A new website for SAFEX MEMBERS

❖ with a PUBLIC area

❖ and a PRIVATE area

www.safex-international.org

The PUBLIC area

Preventing incidents by working together

This is SAFEX INTERNATIONAL

- For Explosives manufacturers
- For Explosives users
- For National authorities
- For press and media

www.safex-international.org

The PUBLIC area

Its origin,

Its Aims and Objectives

Its operating methods

and its organisation

www.safex-international.org

The screenshot shows a web browser window titled "SAFEX WEB SITE - Wanadoo". The browser's menu bar includes "Fichier", "Edition", "Affichage", "Favoris", and "Outils". The website's navigation bar contains links for "What is SAFEX ?", "Services", "Contact SAFEX", and "Home Page". The main content area is titled "Home Page" and features the following text:

SAFEX INTERNATIONAL is a global organisation which has the fundamental objective of helping its Members and the Explosive Industry improving Safety, Health and Environment (SHE) performance throughout the full life cycle of explosives. Life Cycle means the "cradle to grave" of explosives including research through production, distribution, use and final disposal. To SAFEX "explosives" is understood to include initiating devices, propellants, industrial and military explosives, raw and intermediate materials associated with the explosives industry.

Currently, membership of **SAFEX INTERNATIONAL** is over 85 companies from all the continents in the world and some 40 different countries.

On joining **SAFEX INTERNATIONAL**, Member Companies are asked to declare their willingness to report any major incident or near misses that could have led to an incident. Members are asked to provide investigation conclusions, recommendations and lessons learned so that a similar incident does not befall another member company.

Thus, the major objective of **SAFEX INTERNATIONAL** is to share SHE information in order to improve the quality of life of people associated with explosives activities and enhance the wellbeing and standing of the industry as a whole.

SAFEX provides a forum for debating questions, problems, facts and topics related to safety, health and environment during the manufacture, storage, transport and use of explosives. This includes any other subject relevant to incident prevention and incident investigation.

The page also includes a photograph of a worker in an orange suit and white hard hat kneeling and working with a blue hose on a construction site. Below the text, there is a link for "Private area" with a right-pointing arrow. At the bottom of the page, the address is listed as "SAFEX International - c/o ATAG Ernst & Young AG - 9 Aeschengraben - CH 4200 Basel - Switzerland". The Windows taskbar at the bottom shows the "démarrer" button and several open applications, including "SAFEX WEB SITE - W...", "SAFEX Web Site", and "Microsoft PowerPoint ...". The system clock shows "17:43".

www.safex-international.org

The screenshot shows a web browser window titled "SAFEX WEB SITE - Wanadoo". The browser's menu bar includes "Fichier", "Edition", "Affichage", "Favoris", "Outils", and "?". The website content features a top banner with a large image of an explosion on the left and the SAFEX International logo on the right. Below the banner is a navigation menu with links for "What is SAFEX?", "Services", "Contact SAFEX", and "Home Page". The main content area is titled "Home Page" and contains a table of contents with links to "THIS IS SAFEX INTERNATIONAL", "AIMS AND OBJECTIVES", "SAFEX'S OPERATING METHODS", and "ORGANISATIONAL STRUCTURE". The text describes SAFEX International as a global organization focused on Safety, Health, and Environment (SHE) performance throughout the explosives life cycle. It mentions that membership includes over 85 companies from 40 different countries. A section titled "Private area" is visible on the right. At the bottom, there is a footer with the address: "SAFEX International - c/o AT&T Ernst & Young AG - 9 Aeschengraben - CH 4200 Basel - Switzerland". The Windows taskbar at the bottom shows the "démarrer" button, several icons, and the system tray with the time "17:45".

SAFEX WEB SITE - Wanadoo

Fichier Edition Affichage Favoris Outils ?


What is SAFEX? | Services | Contact SAFEX | Home Page

Home Page


- THIS IS SAFEX INTERNATIONAL
- AIMS AND OBJECTIVES
- SAFEX'S OPERATING METHODS
- ORGANISATIONAL STRUCTURE

SAFEX INTERNATIONAL is a global organisation which has the fundamental objective of helping its Members and the Explosive Industry improving Safety, Health and Environment (SHE) performance throughout the full life cycle of explosives. Life Cycle means the "cradle to grave" of explosives including research through production, distribution, use and final disposal. To SAFEX "explosives" is understood to include initiating devices, propellants, industrial and military explosives, raw and intermediate materials associated with the explosives industry.

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SAFEX provides a forum for debating questions, problems, facts and topics related to

Private area

SAFEX International - c/o AT&T Ernst & Young AG - 9 Aeschengraben - CH 4200 Basel - Switzerland

démarrer

SAFEX WEB SITE - W... SAFEX Web Site Microsoft PowerPoint...

17:45

www.safex-international.org

The screenshot shows a web browser window with the title "SAFEX WEB SITE - Wanadoo". The browser's menu bar includes "Fichier", "Edition", "Affichage", "Favoris", "Outils", and "?". The website content features a header with a photograph of an explosion and the SAFEX International logo. A navigation bar contains links for "What is SAFEX ?", "Services", "Contact SAFEX", and "Home Page". The main heading reads "THIS IS SAFEX INTERNATIONAL". Below this, a sub-heading states "This is SAFEX INTERNATIONAL :", followed by a bulleted list of organizational facts. To the right of the text is a photograph of a person in an orange jumpsuit handling a white cylindrical object. Below the photo is a placeholder "Text of the picture" and a "Private area" link. The footer provides the organization's address: "SAFEX International - c/o ATAG Ernst & Young AG - 9 Aeschengraben - CH 4200 Basel - Switzerland". The Windows taskbar at the bottom shows the "démarrer" button, several application icons, and the system clock displaying "17:47".

SAFEX WEB SITE - Wanadoo

Fichier Edition Affichage Favoris Outils ?

What is SAFEX ? | Services | Contact SAFEX | Home Page

THIS IS SAFEX INTERNATIONAL

This is SAFEX INTERNATIONAL :

- 85 Companies manufacturing explosives
- 40 Countries
- Each company declares its willingness to exchange information concerning Explosives Industry incidents
- We learn from each other
- We aim to prevent the repetition of the same incidents
- We have a database of 750 incidents in the explosives industry
- We have a General Congress every 3 years, where causes of incidents are examined in detail
- We provide free training to our members

Text of the picture

Private area

SAFEX International - c/o ATAG Ernst & Young AG - 9 Aeschengraben - CH 4200 Basel - Switzerland

démarrer SAFEX WEB SITE - W... SAFEX Web Site Microsoft PowerPoint ... 17:47

www.safex-international.org

SAFEX WEB SITE - Wanadoo

Fichier Edition Affichage Favoris Outils ?

SAFEX INTERNATIONAL is a global organisation which has the fundamental objective of improving the Safety, Health and Environment (SHE) associated with the life cycle of explosives. By "life cycle" we include the phases of design, development, manufacture, storage, transport and distribution, use, disposal or recycling of explosives products. The word "explosives" is understood to include initiating devices, propellants, industrial and military powders, raw and intermediate materials associated with the explosives industry.



Text of the picture

Private area

- Therefore, on joining SAFEX INTERNATIONAL, Member Companies are asked to declare their willingness to report any major incidents or near misses that could lead to an incident in the future. Members are asked to reveal their conclusions, recommendations and lessons learned so that a similar incident does not befall another member company.
- Thus, the major objective of SAFEX INTERNATIONAL is to share SHE information in order to improve the quality of life of people associated with the explosives activities and enhance the wellbeing and standing of the industry as a whole.
- SAFEX provides a forum for debating questions, problems, facts and topics related to Safety, Health and Environment during the manufacture, storage, transport and use of explosives. This includes any other subject relevant to the interest of incident prevention.

SAFEX International - c/o AT&T Ernst & Young AG - 9 Aeschengraben - CH 4200 Basel - Switzerland

démarrer SAFEX WEB SITE - w... SAFEX Web Site Microsoft PowerPoint ... 17:48


www.safex-international.org

SAFEX WEB SITE - Wanadoo

Fichier Edition Affichage Favoris Outils ?


SAFEX INTERNATIONAL has set up a series of procedures to ensure the rapid exchange of information. Particular attention is paid to the "lessons learned" from any accidents or incidents. This is becoming increasingly important as litigation frequently follows an incident. Such litigation tends to mitigate against the free exchange of information.

- When SAFEX Members experience an incident they send a **Preliminary Report** as soon as possible to the Secretary General.
- The Secretary General circulates this to all members.
- When a **Final Report** is issued and this can often be up to two years after the incident, it is also sent to the Secretary General who circulates it to all SAFEX members.
- The Secretary General maintains a database of all accident and incident reports and these are classified with certain key words for ease of retrieval of information.



Test of the picture

Private area



- Since its inception in 1954, SAFEX INTERNATIONAL has accumulated information and details on over 750 incidents in the explosives business.
- Using this computerised database the Secretary General is able to respond to members enquiries with regard to any particular topic.
- Once every three years a Congress of all members is organised at a major international centre.
- Every member who has had an incident in the intervening three years since the last Congress is asked to describe the incident and to outline the lessons learned.

SAFEX International - c/o ATAG Ernst & Young AG - 9 Aeschengraben - CH 4200 Basel - Switzerland

démarrer SAFEX WEB SITE - W... SAFEX Web Site Microsoft PowerPoint 17:50

www.safex-international.org



The screenshot shows a web browser window titled "SAFEX WEB SITE - Wanadoo". The browser's menu bar includes "Fichier", "Edition", "Affichage", "Favoris", "Outils", and "?". The address bar shows the URL "http://www.safex-international.org". The website's navigation menu includes "What is SAFEX ?", "Services", "Contact SAFEX", and "Home Page".

ORGANISATIONAL STRUCTURE

The official bodies of SAFEX INTERNATIONAL are as follows :

- ▶ **The General Assembly of the Members :**
A General Meeting of all SAFEX Members is called at least once every three years to coincide with the SAFEX Congresses.
- ▶ **The Governing Committee :**
The main function of the Governing Committee is to decide the policy and direction of SAFEX INTERNATIONAL. The Committee has the right to co-opt individuals from the Membership at any time. Membership of the Committee is on a personal basis. Co-optations are ratified at the General Meeting.
- ▶ **The Chairman :**
The Chairman of the Committee is appointed by Committee members from amongst its number. This appointment is confirmed at the earliest Committee Meeting taking place after any Annual General Meeting.
- ▶ **The General Secretary :**
The Committee is empowered to appoint a Secretary General and to make any arrangements that are necessary for the conduct of the affairs of SAFEX INTERNATIONAL. The Secretary General assists and attends any Committee Meeting without the right to vote. The Secretary General is responsible for the day to day running of the affairs of SAFEX INTERNATIONAL and for carrying out the policies decided by the Governing Committee as periodically endorsed by General Meetings. In particular, the Secretary General prepares an annual budget which is approved by the Governing Committee.
- ▶ **The Auditor :**
Books of the Association are audited every year by an auditor appointed by the Governing Committee.

Text of the picture

→ Private area

SAFEX International - c/o AT&T Ernst & Young AG - 9 Aeschengraben - CH 4200 Basel - Switzerland

demarrer SAFEX WEB SITE - W... SAFEX Web Site Microsoft PowerPoint ... 17:51

www.safex-international.org

The PUBLIC area

SAFEX SERVICES for its Membership:

Incident Database

Congresses

Panel of experts

Training events

Technical Seminars

Topical papers

www.safex-international.org

The screenshot shows a web browser window titled "SAFEX WEB SITE - Wanadoo". The browser's menu bar includes "Fichier", "Edition", "Affichage", "Favoris", and "Outils". The website header features a navigation menu with "What is SAFEX?", "Services", "Contact SAFEX", and "Home Page". A large banner image at the top shows an explosion in a quarry. The SAFEX International logo is in the top right corner.

The main content area is titled "Home Page" and contains the following text:

SAFEX INTERNATIONAL is a global organization of helping its Members and the Explosive Industry improve their Safety, Health and Environment (SHE) performance throughout the full life cycle of explosives. Life Cycle means the "cradle to grave" of explosives including research through production, distribution, use and final disposal. To SAFEX "explosives" is understood to include initiating devices, propellants, industrial and military explosives, raw and intermediate materials associated with the explosives industry.

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Thus, the major objective of **SAFEX INTERNATIONAL** is to share SHE information in order to improve the quality of life of people associated with explosives activities and enhance the wellbeing and standing of the industry as a whole.

SAFEX provides a forum for debating questions, problems, facts and topics related to

A sidebar menu on the right lists: INCIDENT DATABASE, CONGRESSES, PANEL OF EXPERTS, TRAINING EVENTS, TECHNICAL SEMINARS, and TOPICAL PAPERS. Below this is a photo of a worker in an orange suit and white helmet using a tool on a rock. At the bottom of the sidebar is a link for "Private area".

The footer of the website reads: "SAFEX International - c/o ATAG Ernst & Young AG - 9 Aeschengraben - CH 4200 Basel - Switzerland".

The Windows taskbar at the bottom shows the "démarrer" button and several open applications: "SAFEX WEB SITE - W...", "SAFEX Web Site", and "Microsoft PowerPoint...". The system clock shows "17:52".

www.safex-international.org

The screenshot shows a Netscape browser window titled "SAFEX WEB SITE - Wanadoo". The browser's menu bar includes "Fichier", "Edition", "Affichage", "Favoris", "Outils", and "?". The website content features a header with navigation links: "What is SAFEX?", "Services", "Contact SAFEX", and "Home Page". Below this is a section titled "EXAMPLES OF CONGRESS THEMES".

The main text in this section reads: "The basic objective of SAFEX remains to attempt to prevent the recurrence of incidents and to improve all aspects of safety in the production, transport, storage and use of explosives. Beside the incident reports which are circulated among SAFEX members, SAFEX INTERNATIONAL hosts a Congress every Three years for his members at a major international center. This allows members to share their experience and detail incident reports which occurred during the precedent years. Following the congress the Secretary General arranges for the publication of all the papers which have been presented."

Below the text is a section titled "List of SAFEX International Congresses" with the following entries:

- 1st Congress** : Sept.28-Oct 1 1960 Eidgen.techn. Hochschule ZURICH Switzerland
- 2nd Congress** : Oct.21-24 1964 Colleferro(BPD) ROMA Italy
- 3rd Congress** : May 29-30 1969 Nobel Dozel PARIS France
- 4th Congress** : May 10-13 1972 North British Hotel EDINBURGH Scotland
- 5th Congress** : May 21-23 1975 Hotel Vier Jahreszeiten MUNICH Germany
- 6th Congress** : May 17-20 1978 Hotel Macarena SEVILLA Spain
- 7th Congress** : May 13-16 1981 Hotel Intercontinental ATHENS Greece
- 8th Congress** : May 23-26 1984 Grand Hotel STOCKHOLM Sweden

The right side of the page contains a photograph of a person in an orange protective suit kneeling and handling a white cylindrical object. Below the photo is the text "Text of the picture" and a "Private area" link. The footer of the website states: "SAFEX International - c/o ATAG Ernst & Young AG - 9 Aeschengraben - CH 4200 Basel - Switzerland".

The Windows taskbar at the bottom shows the "démarrer" button and several open applications: "SAFEX WEB SITE - W...", "SAFEX Web Site", and "Microsoft PowerPoint ...". The system clock indicates the time is 18:08.

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SAFEX WEB SITE - Wanadoo

Fichier Edition Affichage Favoris Outils ?

Example of Congress themes


As an example of the Themes and Topics developed by SAFEX for each Congress, the following have been identified for the next Congress in 2005.

► SHE Systems

Just as a medical practitioner examines a patient against a norm of symptoms and indicators and then prescribes treatment, our business's SHE health needs to be examined against a norm and then treatment (corrective action) put in place to ensure consistent operations.

The intention of this SAFEX session is to

- describe the key elements of the SHE "norm" or template that help to ensure safe and efficient explosives operations and
- develop further in a Workshop some of the diagnostic tools that are used in the business to identify and assess deviations from the norm. This Workshop will give Members the opportunity to review some of the key diagnostic tools used in the industry such as : periodic hazard studies, change management systems, risk assessment practices and different levels of auditing - all of which can be used to make a diagnosis of their SHE health and prepare a treatment plan.



► Good Explosives Practice

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démarrer SAFEX WEB SITE - W... SAFEX Web Site Microsoft PowerPoint ... 18:09

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SAFEX WEB SITE - Wanadoo

Fichier Edition Affichage Favoris Outils ?

What is SAFEX ? | Services | Contact SAFEX | Home Page

PANEL OF EXPERTS

What is the Expert Panel ? It is a Panel of individuals who are or have been associated with the Explosives Industry as a result of which they have developed expertise in specific fields. Members of the Panel are willing to make their expertise available to SAFEX Members on a basis agreed between each Member and the relevant Expert.

The Panel will strive to encompass areas with the potential for an incident that could result in injury, property damage or negative environmental impact. This embraces activities throughout an explosive's "life cycle" ranging from: research and development; process design and engineering; production; testing; disposal; use; storage; distribution; plant decontamination and demolition; soil and groundwater remediation; and regulatory compliance. The Panel will also consider as wide a range of technologies as possible including nitration and associated technologies; explosives mixing and cartridgeing; primary and deflagrating explosives as well as pyrotechnics; propellants; blasting agents; ammonium nitrate, sodium perchlorate and other energetic ingredients.

SAFEX International establishes and maintains such an Expert Panel as a service to its Members.



Text of the picture

Private area



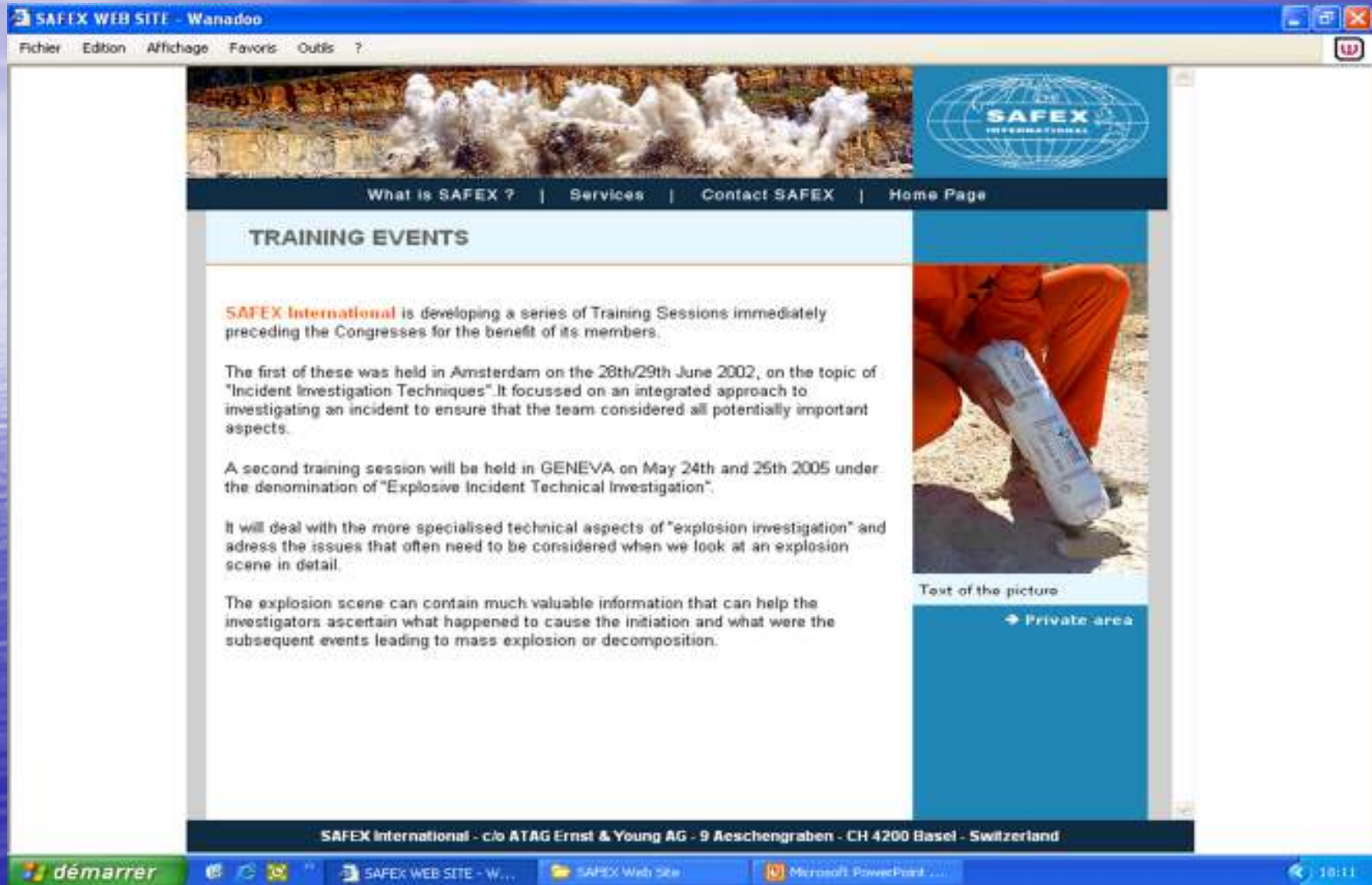
SAFEX International - c/o ATAG Ernst & Young AG - 9 Aeschengraben - CH 4200 Basel - Switzerland

démarrer

SAFEX WEB SITE - W... SAFEX Web Site Microsoft PowerPoint ...

18:10

www.safex-international.org



The screenshot shows a web browser window titled "SAFEX WEB SITE - Wanadoo". The browser's menu bar includes "Fichier", "Edition", "Affichage", "Favoris", "Outils", and "?". The website content features a header with a photograph of an explosion and the SAFEX International logo. A navigation bar contains links for "What is SAFEX?", "Services", "Contact SAFEX", and "Home Page". The main section is titled "TRAINING EVENTS" and contains the following text:

SAFEX International is developing a series of Training Sessions immediately preceding the Congresses for the benefit of its members.

The first of these was held in Amsterdam on the 28th/29th June 2002, on the topic of "Incident Investigation Techniques". It focussed on an integrated approach to investigating an incident to ensure that the team considered all potentially important aspects.

A second training session will be held in GENEVA on May 24th and 25th 2005 under the denomination of "Explosive Incident Technical Investigation".

It will deal with the more specialised technical aspects of "explosion investigation" and adress the issues that often need to be considered when we look at an explosion scene in detail.

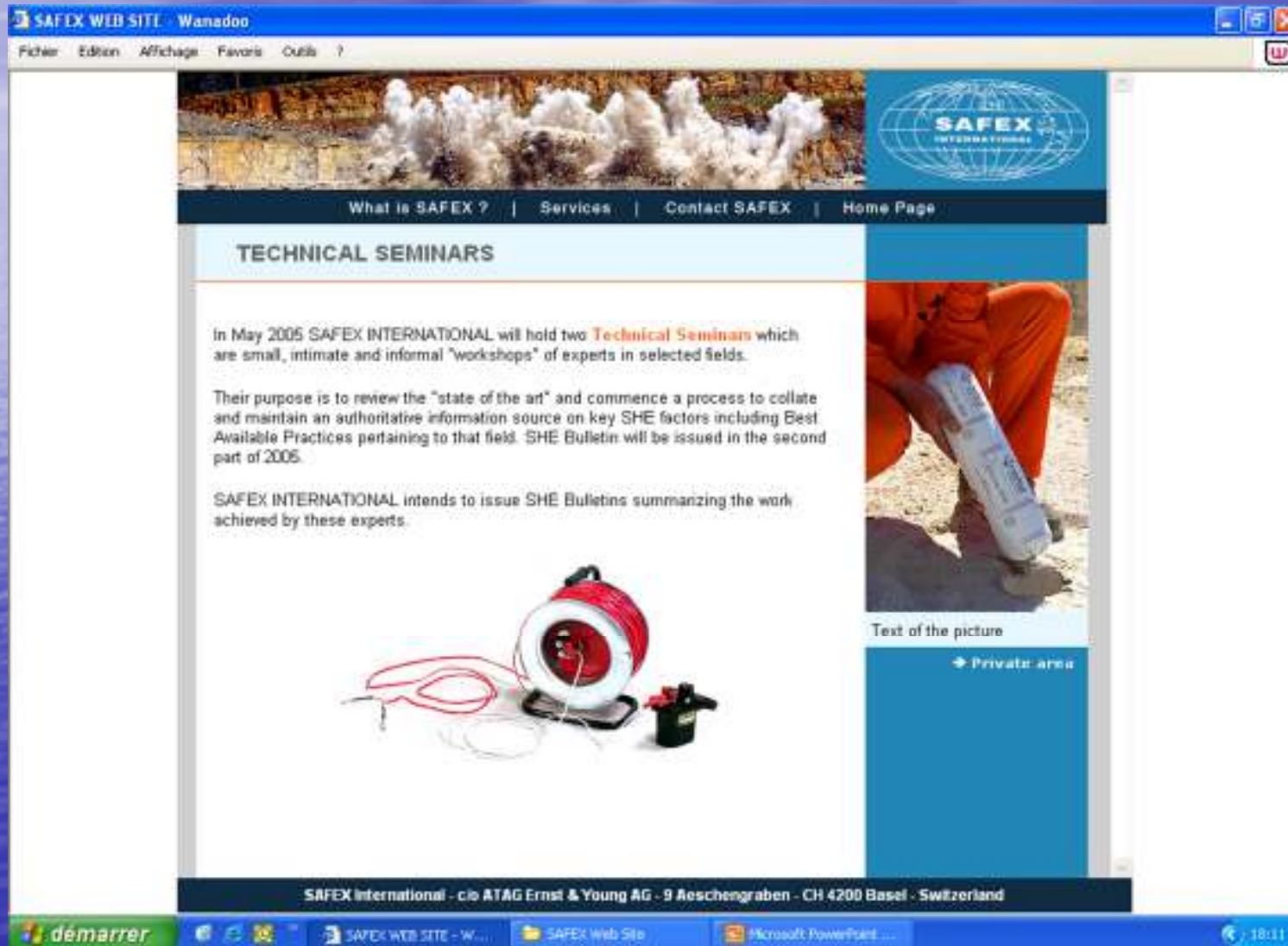
The explosion scene can contain much valuable information that can help the investigators ascertain what happened to cause the initiation and what were the subsequent events leading to mass explosion or decomposition.

To the right of the text is a photograph of a person in orange protective gear kneeling and examining a white cylindrical object on the ground. Below the photo is a caption "Text of the picture" and a link "→ Private area".

The footer of the website states: "SAFEX International - c/o ATAG Ernst & Young AG - 9 Aeschengraben - CH 4200 Basel - Switzerland".

The Windows taskbar at the bottom shows the "démarrer" button and several open applications: "SAFEX WEB SITE - W...", "SAFEX Web Site", and "Microsoft PowerPoint ...". The system clock shows "10:11".

www.safex-international.org





The screenshot shows a web browser window titled "SAFEX WEB SITE - Wanadoo". The browser's menu bar includes "Fichier", "Edition", "Affichage", "Favoris", and "Outils". The website header features a banner image of a white plume of smoke or steam against a rocky background, and the SAFEX International logo on the right. A navigation bar contains links for "What is SAFEX?", "Services", "Contact SAFEX", and "Home Page".

TECHNICAL SEMINARS

In May 2005 SAFEX INTERNATIONAL will hold two **Technical Seminars** which are small, intimate and informal "workshops" of experts in selected fields.

Their purpose is to review the "state of the art" and commence a process to collate and maintain an authoritative information source on key SHE factors including Best Available Practices pertaining to that field. SHE Bulletin will be issued in the second part of 2005.

SAFEX INTERNATIONAL intends to issue SHE Bulletins summarizing the work achieved by these experts.



Text of the picture

→ Private area

SAFEX International - c/o AT&T Ernst & Young AG - 9 Reschengraben - CH 4200 Basel - Switzerland

The browser's taskbar at the bottom shows the "démarrer" button, several icons, and open applications including "SAFEX WEB SITE - W...", "SAFEX Web Site", and "Microsoft PowerPoint ...". The system clock shows "18:11".

www.safex-international.org

SAFEX WEB SITE - Wansdoo

Fichier Edition Affichage Favoris Outils ?

What is SAFEX ? | Services | Contact SAFEX | Home Page

TOPICAL PAPERS

Safex International has decided to contribute more actively to the improvement of Health and Safety within the Chemical and Explosives Industries by publishing a series of booklets related to Health and Safety.

The first booklet of the series entitled *"Lessons from incidents involving the testing of explosives"* by Andy Begg was published in February 2004.

It can be summarised as follows :

"Many explosives factories, plants and laboratories have some form of facility for the destructive testing of explosives. This testing of explosives may include many different activities from small scale testing of quantities less than 1 g to mass detonation of perhaps over 100kg of material. The methods of initiation also vary from physical stimuli such as impact or shock from a detonator to a mass fire. Testing activities are generally carried out by small groups of specialists, in many cases by one individual. Because of the specialised nature of the testing activities it is possible for the persons carrying out the tests to become almost self-regulating and for the testing activities to become distanced from the normal safety management practices in place for the day-to-day plant operations. In this paper we look at 4 incidents that have happened in "testing" and show that failures in standard safety systems, which we would expect to find in place in general operations, were not fully complied with. In particular they stress the need for formal risk assessments to be conducted on all testing operations and "good explosives practices" to be followed."



A second booklet of the series entitled *"Corporate Memory"* will be available at the next congress. It can be summarised as follow :

"It is often said after an incident that "Corporate Memory has



Text of the picture

→ Private area

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démarrer

SAFEX WEB SITE - W... SAFEX Web Site Microsoft PowerPoint...

18:12

www.safex-international.org



The screenshot shows a web browser window titled "SAFEX WEB SITE - Wanadoo". The browser's menu bar includes "Fichier", "Edition", "Affichage", "Favoris", "Outils", and "?". The address bar is empty. The main content area displays text from a document, including a paragraph about testing activities and a section titled "Corporate Memory". A small image of a booklet cover is visible on the right side of the text. The browser's status bar at the bottom shows the SAFEX International address: "SAFEX International - c/o AT&T Ernst & Young AG - 9 Aeschengraben - CH 4200 Basel - Switzerland". The Windows taskbar at the very bottom shows the "démarrer" button and several open applications: "SAFEX WEB SITE - W...", "SAFEX Web Site", and "Microsoft PowerPoint ...". The system clock shows "18:12".

personnel carrying out the tests to economic interests
regulating and for the testing activities to become distanced
from the normal safety management practices in place for the
day-to-day plant operations. In this paper we look at 4
incidents that have happened in "testing" and show that
failures in standard safety systems, which we would expect to
find in place in general operations, were not fully complied with. In particular they
stress the need for formal risk assessments to be conducted on all testing operations
and "good explosives practices" to be followed."

A second booklet of the series entitled "Corporate Memory" will be available at the next
congress. It can be summarised as follow :

"It is often said after an incident that "Corporate Memory has
failed" meaning that an incident that happened in the past has
happened again. The use of the term "failure in Corporate
Memory" could be read to imply that the failure took place in
some faceless system – this "thing" called Corporate Memory.
Yet, all of us who work in or support the explosives industry
collectively make up it's Corporate Memory. So when we say
"Corporate Memory failed again" what we are really saying is
that "We failed in our stewardship of the industry"
This paper tries to address what Corporate Memory really is,
how it works, how we go about developing one – and how we
keep it.
A Corporate Memory should be proactive in preventing
incidents, not failing and cause them."

Topical papers can be ordered from SAFEX secretariat at :
safex.secretariat@wanadoo.fr

SAFEX International - c/o AT&T Ernst & Young AG - 9 Aeschengraben - CH 4200 Basel - Switzerland

www.safex-international.org

The PRIVATE area


A secure environment within which

SAFEX MEMBERS

could freely exchange

SHE experiences and information

www.safex-international.org



The screenshot shows a web browser window displaying the SAFEX International website. The browser's address bar shows "SAFEX WEB SITE - Wanadoo". The website's header includes a navigation menu with "What is SAFEX ?", "Services", "Contact SAFEX", and "Home Page". The main content area is titled "Contact SAFEX" and features the following information:

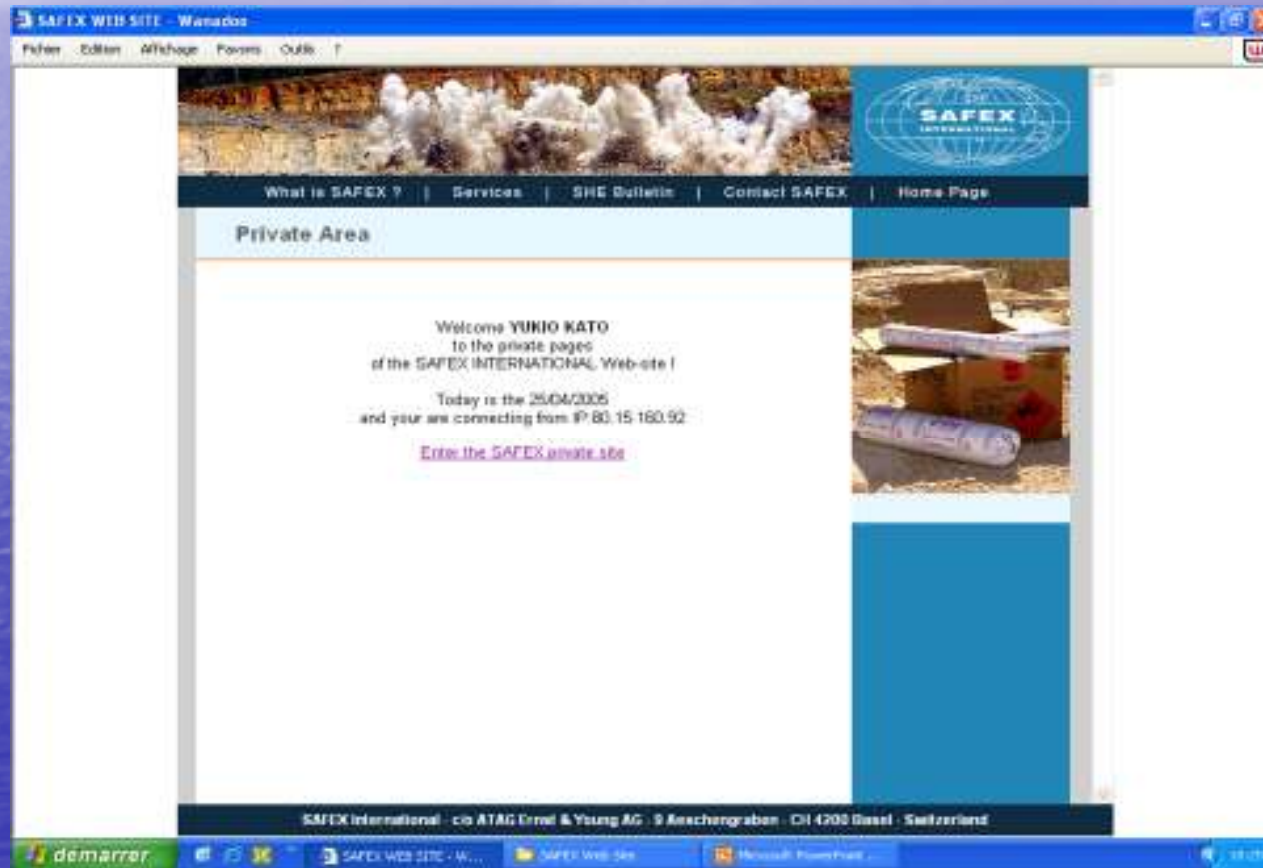
- SAFEX INTERNATIONAL Registered Address**
- c/o ATAG Ernst & Young A.G
9 Aeschengraben
CH 4200 BASEL
Switzerland
- Chairman**
Beet COETZEE
South Africa
- Secretary General**
Bernard HUEBER
France
- SAFEX secretariat@wanadoo.fr

A "Private area" link is visible on the right side of the page. The footer of the website states: "SAFEX International - c/o ATAG Ernst & Young AG - 9 Aeschengraben - CH 4200 Basel - Switzerland". The Windows taskbar at the bottom shows the "démarrer" button and several open applications, including "SAFEX WEB SITE - W...", "SAFEX Web Site", and "Microsoft PowerPoint ...".

www.safex-international.org

The screenshot shows a web browser window titled "SAFEX WEB SITE - Wamados". The browser's menu bar includes "File", "Edit", "Affichage", "Form", and "Outils". The website header features a navigation menu with links: "What is SAFEX ?", "Services", "SRE Bulletin", "Contact SAFEX", and "Home Page". The main content area is titled "Private Area" and contains the following text: "This is the members' only section of the SAFEX INTERNATIONAL Web-site. To enter type in your member name password provided by SAFEX INTERNATIONAL". Below this text is a login form with two input fields labeled "USER ID" and "PASSWORD", and a "CHECK" button. A note below the form states: "If you have forgotten ask for new ones by emailing contact@safex-international.org". The footer of the website provides the address: "SAFEX international - c/o ATAG Ermel & Young AG - 9 Anrechgraben - CH 4200 Basel - Switzerland". The Windows taskbar at the bottom shows the "demarrer" button and several open applications, including "SAFEX WEB SITE - W...", "SAFEX Web Site", and "Microsoft PowerPoint".

www.safex-international.org



www.safex-international.org

The PRIVATE area

A home page with a MESSAGE BOARD

Chairman's letter

Latest incident notification

Investigation reports received

Development on next congress

www.safex-international.org

The PRIVATE area

A home page to remind

« What is SAFEX »

with the SAFEX membership commitments
and the SAFEX Articles of Association

www.safex-international.org



The screenshot shows a web browser window with the address bar displaying "http://www.safex-international.org - SAFEX WEB SITE - Wanadoo". The browser interface includes a menu bar with "File", "Edit", "Address", "Format", and "Tools". The main content area is titled "Application for membership" and contains the following text:

Thank you for your interest in becoming a member of SAFEX INTERNATIONAL.

SAFEX INTERNATIONAL is a non-profit making organization of manufacturers of explosives and pyrotechnics, founded in 1954. The aim of SAFEX INTERNATIONAL is to protect men and material against dangers and damage by the sharing of experience in the explosives industry. Pooling information about accidents leads to a better understanding of the reason for accidents and can help members avoid similar events in the future.

Currently SAFEX INTERNATIONAL has 85 members in 40 countries all over the world. To qualify for membership you must be a bona fide manufacturer of explosives involved in the explosives cycle of life. Members shall be elected to membership of SAFEX on application by writing and only after unanimous approval of the Governing Committee.

SAFEX is strictly non-political. All information is for SAFEX-membership only. Members are obliged to notify the Secretary General of any accident or incident in their plants, transport system, or on site if they affect safety or security. The Safety Secretariat then sends out accident reports to all members. Any further clarification can be requested from the Secretary General, who will contact the member concerned.

All Accident Reports previously reported to SAFEX INTERNATIONAL are available on CD ROM.

Every three years a Congress is organized for the presentation of papers on important themes by the members. Admission to the Congress is for SAFEX members only. The IV SAFEX Congress will be held in GENEVA from 25th to 29th May 2005.

You will find below:

- 1) The SAFEX membership commitment signed by your company when it first joined the SAFEX family.
- 2) The Articles of Association

At the bottom of the page, the text reads: "SAFEX International - c/o ATAG Ernel & Young AG - 9 Anrechergaben - CH 4200 Basel - Switzerland". The browser's taskbar at the bottom shows the "demarror" logo, several icons, and the address bar containing "http://www.safex-int...".

www.safex-international.org

The PRIVATE area

A Members DIRECTORY

with an easy research of the explosives
manufacturers members, their productions
and their SHE contacts

www.safex-international.org

The screenshot shows a web browser window with the address bar displaying "http://www.safex-international.org - SAFEX WEB SITE - Wanadoo". The browser's menu bar includes "File", "Edit", "Affichage", "Formes", and "Outils". The website header features a navigation menu with links: "Home Page", "Members", "Incidents", "Congress", "Library", "Experts", "Workshop", "Training", and "News".

The main content area is titled "Incidents database" and contains the following text:

SAFEX INTERNATIONAL has been in operation since 1955 and of course early reports were manually recorded as hard copy in those pre-computer times making up a substantial library of information. Nowadays there are approximately 730 incidents reports which have been recorded in digital format.

Every 3 years at the congress members will be provided with a CD-Rom listing all the past incidents. This CD will also be included in this current web site to enable you with an easy search. Between two congresses each incidents report will be added to this site by the Secretary General and will provide you with preliminary information which will be completed and discussed at the next congress.

All data included in the first CD-Rom which has been given to members at the Dublin Congress are available on this web site. You can target your search by using several keywords. Each keyword has to be indicated in the form below. For a multi-criteria search, use several keywords (one keyword per field).

The search interface includes four input fields labeled "First Keyword", "Second Keyword", "Third Keyword", and "Fourth Keyword", each followed by a text input box. To the right of these fields is a "Search" button. A link titled "How to search?" is also present, with a sub-note: "Method : each Keyword per field may contain one word only, to target your search use several keywords".

At the bottom of the page, the footer text reads: "SAFEX International - c/o ATAG Ernel & Young AG - 9 Anrechergaben - CH 4200 Basel - Switzerland". The browser's taskbar at the bottom shows the "demarrer" logo and several open windows, including "http://www.safex-int...", "SAFEX Web Site", and "Microsoft PowerPoint...".

www.safex-international.org



www.safex-international.org

The screenshot shows a web browser window displaying the SAFEX International website. The browser's address bar shows the URL <http://www.safex-international.org>. The website's header includes a navigation menu with links for Home Page, Members, Incidents, Congress, Library, Experts, Workshop, Training, and News. The main content area is titled "Members Directory" and features a sub-menu with options for "All Members", "Individual Societies", "Groups", "Federations", and "Individuals". Below this, there are sorting options: "Country A-Z", "Country Z-A", "Name A-Z", and "Name Z-A". A text block explains that the detailed members directory is shown below and can be filtered by clicking on the "All members - Individual Societies - Groups - Federations - Individuals" bar. It also notes that users can sort the list by alphabetical countries or names. A note with a person icon states: "To enable you to have a detailed profile form of a given member, simply click on the appropriate icon." A list of members is displayed, each with a person icon and a plus sign:

- ABI ZAABAL : EGYPT
- ADI Limited : AUSTRALIA
- AEL : SOUTH AFRICA
- ASAHI KASEI CHEMICALS CORP. : JAPAN
- AUSTIN CARIBBEAN : REP. DE PANAMA
Group AUSTIN
- AUSTIN DETONATORS s.r.o. : CZECH REPUBLIC
Group AUSTIN

The footer of the website reads: "SAFEX International - c/o AT&T Ernet & Young AG - 9 Anrechengraben - CH 4200 Basel - Switzerland". The browser's taskbar at the bottom shows the "demarror" logo, the address bar, and several open applications including "SAFEX Web Site" and "Microsoft PowerPoint".

www.safex-international.org



The screenshot shows a web browser window displaying the SAFEX International website. The browser's address bar shows the URL <http://www.safex-international.org>. The website's header includes a navigation menu with links for Home Page, Members, Incidents, Congress, Library, Experts, Workshop, Training, and News. The main content area is titled "Members Directory" and features a sub-menu with options for "All Members", "Individual Societies", "Groups", "Federations", and "Individuals". Below this, there are sorting options: "Country A-Z", "Country Z-A", "Name A-Z", and "Name Z-A". A text block explains that the detailed members directory is shown below and can be filtered by clicking on the "All members - Individual Societies - Groups - Federations - Individuals" bar. It also notes that users can sort the list by alphabetical countries or names. A note with a person icon states: "To enable you to have a detailed profile form of a given member, simply click on the appropriate icons." Below this, a list of members is displayed, each with a person icon and a name: ABI ZAABAL (EGYPT), ADI Limited (AUSTRALIA), AEL (SOUTH AFRICA), ASAHI KASEI CHEMICALS CORP. (JAPAN), BHARAT EXPLOSIVES LIMITED (INDIA), and BULK MINING EXPLOSIVES (SOUTH AFRICA). The footer of the website provides contact information: SAFEX International - c/o AT&T Erntel & Young AG - 9 Anrechgraben - CH 4200 Basel - Switzerland. The browser's taskbar at the bottom shows the "demarror" logo and several open applications, including a Microsoft PowerPoint window.

www.safex-international.org



www.safex-international.org



The screenshot shows a web browser window displaying the SAFEX International website. The browser's address bar shows the URL <http://www.safex-international.org>. The website has a navigation menu with tabs for "All Members", "Individual Societies", "Groups", "Federations", and "Individuals". Below the navigation, there are sorting options: "Country A-Z", "Country Z-A", "Name A-Z", and "Name Z-A".

The main content area contains a text block: "The detailed members directory is shown below. You can filtered the list by clicking on the 'All members - Individual Societies - Groups - Federations - Individuals' bar. You can also sort this list by alphabetical countries or names." Below this text is a list of members, each with a small icon and a plus sign:

- TEMAGA KINMA BERHAD | WEST MALAYSIA
- ENSIGN BICKFORD COMPANY | USA
- ETI | USA
- INSTITUTE OF MAKERS OF EXPLOSIVES | USA
- INTERNATIONAL SOCIETY of EXPLOSIVES ENGINEERS | USA
- SEHUX EXPLOSIVES INC. | USA
- UTEC CORPORATION | USA
- AUSTIN POWDER COMPANY | USA
Group AUSTIN
- AUSTIN STAR DETONATOR | USA
Group AUSTIN

At the bottom of the page, there is a footer: "SAFEX International - c/o AT&T Erntel & Young AG - 9 Anrechgraben - CH 4200 Basel - Switzerland". The browser's taskbar at the bottom shows the "demarror" logo and several open windows, including "http://www.safex-int...", "SAFEX Web Site", and "Microsoft PowerPoint".

www.safex-international.org



The screenshot shows a web browser window displaying the SAFEX International website. The browser's address bar shows the URL <http://www.safex-international.org>. The website's navigation menu includes links for Home Page, Members, Incidents, Congress, Library, Experts, Workshop, Training, and News. The main content area is titled "Members Directory" and features a sub-menu with options for "All Members", "Individual Societies", "Groups", "Federations", and "Individuals". Below this, there are sorting options for "Country A-Z", "Country Z-A", "Name A-Z", and "Name Z-A". A text block explains that the detailed members directory is shown below and can be filtered by clicking on the "All members - Individual Societies - Groups - Federations - Individuals" bar. It also notes that users can sort the list by alphabetical countries or names. A note with a person icon states: "To enable you to have a detailed profile form of a given member, simply click on the appropriate icon." Below this, a list of member organizations is displayed, each with a person icon and a plus sign:

- CEPIC : BELGIUM
- CENTA : PR CHINA
- EASSP : UK
- FEEM : FRANCE
- INSTITUTE OF MAKERS OF EXPLOSIVES : USA
- INTERNATIONAL SOCIETY of EXPLOSIVES ENGINEERS : USA
- NIXT : SOUTH AFRICA

At the bottom of the page, the footer text reads: "SAFEX International - c/o AT&T Erntel & Young AG - 9 Anrechgraben - CH 4200 Basel - Switzerland". The browser's taskbar at the bottom shows the "demarror" logo, several open tabs, and the system clock showing 11:31.

www.safex-international.org



The screenshot shows a web browser window displaying the SAFEX International website. The browser's address bar shows the URL <http://www.safex-international.org>. The website's header includes a navigation menu with links for Home Page, Members, Incidents, Congress, Library, Experts, Workshop, Training, and News. The main content area is titled "Members Directory" and features a sub-menu with options for All Members, Individual Societies, Groups, Federations, and Individuals. Below this, there are sorting options: Country A-Z, Country Z-A, Name A-Z, and Name Z-A. A text block explains that the detailed members directory is shown below and can be filtered by clicking on the sub-menu items. It also provides instructions on how to view a detailed profile for a given member by clicking on the appropriate icon. Two members are listed: BEGG Andy : UK and BRAITHWAITE Martin : UK. A "+ Public area" link is visible on the right side of the page. The footer of the website states: SAFEX International - c/o ATAG Ermel & Young AG - 9 Anschengraben - CH 4200 Basel - Switzerland. The browser's taskbar at the bottom shows the demarror logo and several open applications.

www.safex-international.org

The PRIVATE area

The SAFEX updated

INCIDENT DATABASE

with an easy Incident Search.

www.safex-international.org



The screenshot shows a web browser window displaying the SAFEX website. The browser's address bar shows the URL <http://www.safex-international.org>. The website content lists four incident reports, each with a magnifying glass icon and a search count. The reports are as follows:

- Incident report n° : 009**
Location : Vittuori Works, Finland
Date : 11/02/1999
Description : Explosion of an electric detonator
[Load the report](#)
- Incident report n° : 009**
Location : Andser Factory
Date : 29/08/1999
Description : Explosion of a magazine with dry and wet nitrocellulose
[Load the report](#)
- Incident report n° : 009**
Location : Werk Saanwellingen, DNAG
Date : 02/02/1999
Description : Explosion in einem Sprengstofflager
[Load the report](#)
- Incident report n° : 009**
Location : Westfalia Factory
Date : 13/03/1999
Description : Explosion of electric detonators during packing
[Load the report](#)

At the bottom of the browser window, the SAFEX International logo and contact information are visible: SAFEX International - c/o ATAG Ernel & Young AG - 9 Anrechgraben - CH 4200 Basel - Switzerland. The Windows taskbar at the bottom shows the 'demarroz' logo and several open browser tabs.

www.safex-international.org

http://www.safex-international.org/PRIVATE_SITE/BACK_OFFICE/MODULE_BASIS_ACCIDENT/IMAGES_BASIS17a - Wanadoo

Fichier Edition Affichage Favoris Outils ?

No. 48

EXPLOSION IN EXPLOSION MAGAZINE AL 7b, AT ARDREAR
FACTORY ON 25th AUGUST, 1958

NO INJURIES
(GRENAD REPORT)

GENERAL AND SCOPE

This report gives an account of the investigation of the explosion which occurred in magazine AL 7b in the Explosives Section of the Blasting Department of Ardrear Factory at 5.28 a.m. on 25th August, 1958.

SUMMARY

At 5.28 a.m. on 25th August, 1958, Ardrear reported magazine AL 7b containing 2,655 lb. of dry nitrocellulose and 600 lb. of water wet nitrocellulose was completely destroyed by an explosion. No one was working in the building at the time, apart from a few cases of minor injuries and shock there were no fatalities but considerable damage was done to neighbouring plant. The building had no heating system, electrical wiring was external, doors and a roof ventilator were the only movable parts in the magazine, there was no lightning in the district, no people were involved and the cause of the accident was difficult to ascertain.

CONCLUSIONS

1. The cause of the explosion has not been established. There was no heating system in the building and it is unlikely that the explosion was due to an electrical fault, to lightning or to the actions of people.
2. Although all details of nitrocellulose in magazine AL 7b had passed test, it was found on further trial that there were two small quantities in the magazine and that test indicated slightly reduced stability in at least part of the material. Examination of nitrocellulose plant and records gave no indication why this might be so.
3. After nitrocellulose has been dried in Quidco press, its temperature may remain as high as 50°C, even after the usual procedure of passing cold air for five minutes, and bags of warm nitrocellulose closely stacked show high static heat for a considerable time.

demarrier

SEARCH Web Site

http://www.safex-international.org

18:46

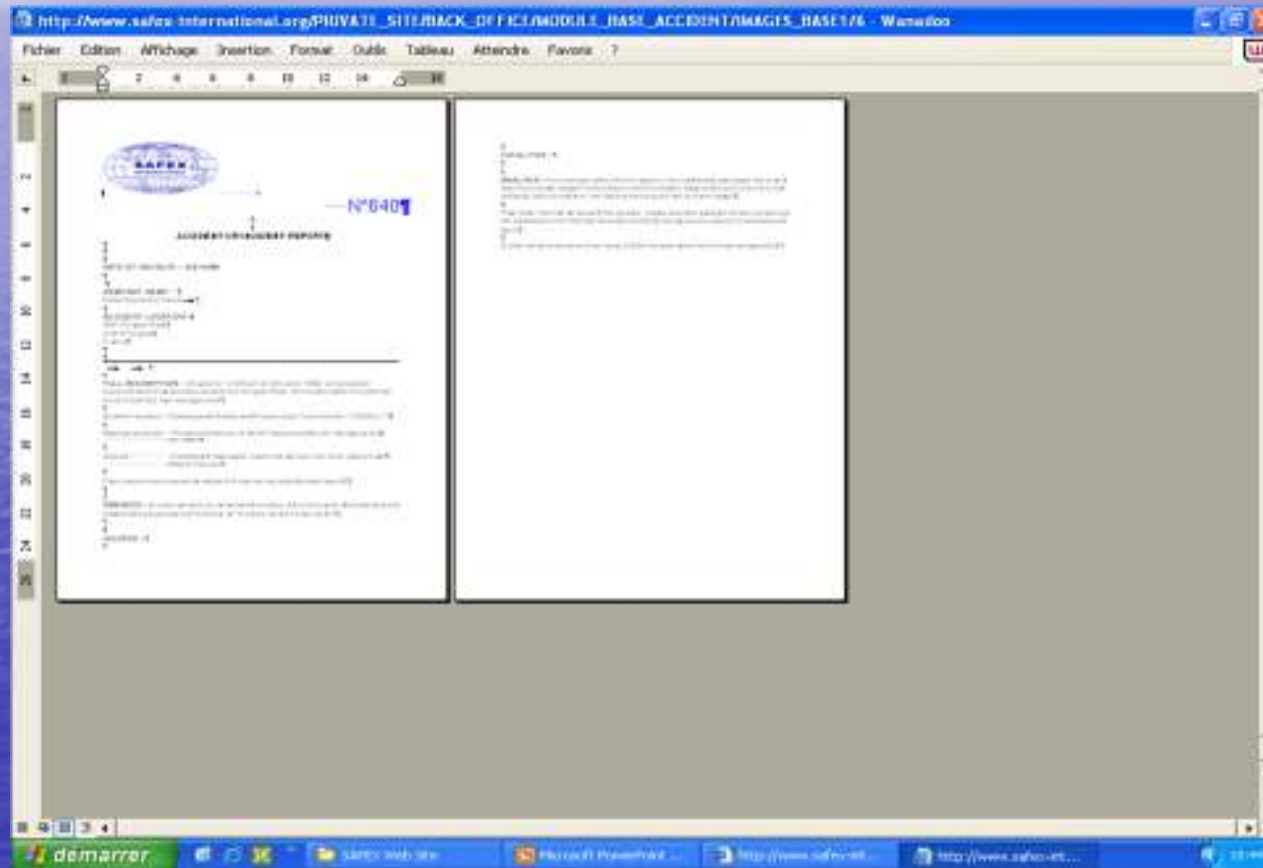
www.safex-international.org

The screenshot shows a web browser window with the address bar displaying "http://www.safex-international.org - SAFEX WEB SITE - Wanadoo". The browser menu includes "Fichier", "Edition", "Affichage", "Favorb", "Outils", and "?". The main content area is titled "Select a page" and features a pagination menu with numbers 1 through 23. Three incident reports are listed, each with a magnifying glass icon:

- Incident report n° : 640**
Location : NEF Vonges Plant 21270 Vonges France.
Date : 1999/06/09
Description : Detonation of a residue after a bonfire test; on a safety tests area.
[Load the report](#)
- Incident report n° : 639**
Location : Louisiana USA.
Date : 2000/01/25
Description : Flash fire and explosion at black powder plant.
[Load the report](#)
- Incident report n° : 638**
Location : IIE Ltd Clonagh, Enfield Co. Meath Ireland
Date : 1999/12/21
Description : A boiling liquid of commercial grade Dinitrotoluene produced a vapour which ignited and exploded within a matrix manufacturing facility.
[Load the report](#)

At the bottom of the page, the text reads: "SAFEX International - c/o ATAG Ernst & Young AG - 9 Aeschengraben - CH 4200 Basel - Switzerland". The Windows taskbar at the bottom shows the "demarror" logo, system icons, and open applications including "safex Web site", "Microsoft PowerPoint...", and "http://www.safex-int...". The system clock shows "18:43".

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The screenshot shows a web browser window with the following content:

- Incident report n° : 728**
Location : ASAHJ - MIYAZAKI (Japan)
Date : 2002/06/12
Description : explosion, Detonator .
[Load the report](#)
- Incident report n° : 724**
Location : MKEK - Ankara (Turkey)
Date : 2004/01/22
Description : explosion, lead picrate, sieving
[Load the report](#)
- Incident report n° : 723**
Location : Austin Detonator - Vsetin (CZECH.)
Date : 2004/01/07
Description : explosion, nonal, testing
[Load the report](#)
- Incident report n° : 722**
Location : HANWHA CORP - BOEUN (Korea)
Date : 2003/11/18
Description : explosion, Comp-B powder, assembling
[Load the report](#)

At the bottom of the browser window, a footer reads: SAFEX International - c/o ATAG Ernst & Young AG - 9 Aeschengraben - CH 4200 Basel - Switzerland.

The Windows taskbar at the bottom shows the following open applications: demarrer, safex Web site, Microsoft PowerPoint, and http://www.safex-int... The system clock shows 18:41.

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The SAFEX triennial

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