

# Newsletter

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Editor: James Mehaffey  
jim.mehaffey@ott.forintek.com

## Letter from the Chairman

Earlier this year, I was honoured to receive an invitation to present a Plenary Lecture at the "2003 International Conference on Fire Science and Fire Protection" which was held in Beijing from 12th - 14th Oct. It was organised and hosted by the China Fire Protection Association (CFPA) and attracted about 270 delegates, representing eight countries. Several members of FORUM who had met in Tokyo during the previous week were in attendance.

The CFPA is to be the lead organisation responsible for the 8th IAFSS Symposium at Tsinghua University in September 2005. Mr Sun Lun, President of the CFPA, has generously offered the full support of his staff to ensure that the event will be of the highest standard. The University of Science and Technology of China (USTC, Hefei) and Tsinghua University will be joint co-organisers. It was explained to me that the CFPA took the decision to hold the conference in October of this year to give them first-hand experience in running an international meeting. This alerted them to a number of issues that would need attention and these have already been addressed and resolved. One of the most important was the matter of Visas for delegates attending from outside China. For me, the 2003 conference served to highlight the extent of the commitment to Fire Safety Research throughout China. I was impressed by the range of papers which were presented at the conference, many of which originated from the four Fire Research Institutes of China, with strong representation from the University sector (including USTC) and other Government research organisations.

The 8th Symposium of Fire Safety Science will provide a timely opportunity for members of the Chinese fire research community to network with the IAFSS in a way that has not been possible before. The timeliness relates to the changes that are taking place within the country which is undergoing an unprecedented boom in building and construction. The modern buildings that are under construction have required the application of performance based fire safety engineering design, but there is also a huge number of new buildings being planned. Fire Safety Engineering in China is developing slowly and needs to be underpinned by good fire research. The IAFSS has the opportunity to help and the 2005 Symposium could and should provide the inspiration for rapid progress to be made.

About twenty years ago, Philip Thomas was invited to China by the China Fire Protection Association. While there, he visited the Fire Research Institutes and initiated a dialogue "between east and west" in the best traditions of international goodwill and cooperation. This was followed by a meeting of CIB W14 in Chengdu in 1988, which I believe was the first international fire event to be held in China. The 8th IAFSS Symposium follows in a natural progression from this meeting and will be to the benefit of us all. It will provide the opportunity to those members of the Association who have not yet had the good fortune to visit China to see this fascinating country at an exciting time in its development, while at the same time contributing to their goal of creating greater levels of fire safety throughout the community.

I hope that we shall be able to include a short article about the Chinese Fire Research Institutes in the next newsletter. They are located Shanghai, Tianjin, Shenzhen and Dujiangyan (near Chengdu in Sichuan Province). The 8th Symposium would provide international delegates with the opportunity to visit one or more of the Institutes while they are in China. In the meantime, further details about the venue for the symposium may be found at the Tsinghua University website ([www.tsinghua.edu.cn/eng/campuslife](http://www.tsinghua.edu.cn/eng/campuslife)). The facilities are excellent and in addition to accommodation on campus there are several four and five star hotels nearby.

Dougal Drysdale –  
30<sup>th</sup> November 2003

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## Plans for the 8<sup>th</sup> International Symposium

The 8th International Symposium on Fire Safety Science will be held September 18-23, 2005 in Beijing, China at Tsinghua University. It will be co-hosted by the China Fire Protection Association, the University of Science and Technology of China, and Tsinghua University. A symposium web site has been created <http://2005.china-fire.com> and will be updated on a regular basis.

The two photographs below are of the conference centre and the main hall within the conference centre.



A Call for Papers and Posters for the symposium will be issued early in 2004. Several important steps are being implemented to facilitate publication of the Proceedings of the 8<sup>th</sup> Symposium.

Crucially, there will be a single address to which all papers and posters will be submitted electronically: the deadline will be **19<sup>th</sup> December 2004**. The Chairman of the Programme Committee, Dr Craig Beyler, will assume responsibility for directing each paper to the relevant member of the Programme Committee. He/she in turn will select at least two referees and set a strict deadline for returning their comments to the committee member. The Programme Committee will then meet to select papers and posters for presentation at the Symposium. The authors will be informed by 15<sup>th</sup> May 2005 *at the latest*, when they will also receive the reviewers' comments. The author(s) will then have the responsibility of revising the paper, casting it in the required format and resubmitting it by mid-August 2005, i.e. one month before the Symposium. This will be a requirement for the appearance of the paper in the proceedings.

For each of the previous symposia, there has been a separate Publications Committee, the Chair of which has taken over at a relatively late stage in the process. This will be changed. The person in charge of the publication of the Proceedings will be intimately involved from the time that papers are submitted and will play an increasingly interactive role to ensure speedy and efficient publication.

This procedure is modelled on the one used successfully by the Combustion Institute for their biennial meetings. We will adopt their best practice, such as approaching potential reviewers well in advance of the submission date (December 2004) informing them that we will be seeking their assistance in the review process. This will alert them to the importance of what we are asking them to do and, perhaps more importantly, give them due warning of the task ahead.

We will also put in place a system that allows the Programme Chair to oversee the entire process and make sure that deadlines are met. With early submission of papers in the required format, there is no reason why the Proceedings cannot be out within three or four months of the Symposium.

*Dougal Drysdale*

## IAFSS Awards for Excellence in Research

A preliminary announcement in the last newsletter gave some details of the IAFSS plans to make awards for the best research dissertations which have been successfully defended during the three year period from 1<sup>st</sup> August 2001 to 31<sup>st</sup> July 2004. There will be three such awards, one for each of the three IAFSS regions, Asia and Australasia, Europe and Africa, and the Americas. The successful candidates will be invited to present papers at the 8<sup>th</sup> IAFSS Symposium in Beijing in September 2005. Grants of £1000 will be awarded to cover the costs associated with attending the Symposium. The objective is to encourage young scientists to enter the field of fire safety science and to participate at an international level.

Dissertations at PhD and Masters levels will be considered, but only one may be submitted from each University or Institute. The preliminary selection must be carried out locally, by the Head of Department, or his or her equivalent, to ensure that only the very best theses are submitted to the Association for consideration. Submission by a student cannot be considered. The work should be submitted in English. If the dissertation has to be in another language, a substantial English summary must be provided. Each dissertation should be sent electronically (pdf format) to the Chairman of the Awards Committee, Professor Mario Fontana. The deadline for submission is 30<sup>th</sup> August 2004.

The submissions will be considered by regional sub-committees chaired respectively by Professor Fontana (Europe and Africa), Professor Pagni (the Americas) and Professor Hirano (Asia and Australasia). It is important to meet the submission deadline as it is planned to announce the winners by the end of January 2005 at the latest. This should give the winners sufficient time to prepare their papers for inclusion in the Symposium Proceedings.

We intend announcing these awards as widely as possible within the fire research community. Graduates, or potential graduates, who meet the conditions outlined above and wish to be considered for an award should speak to their research supervisors. Any student defending his or her thesis *after* 1<sup>st</sup> August 2004 will be eligible for consideration for an award at the 9<sup>th</sup> Symposium which is to be held in Karlsruhe in 2008.

In the first instance, a letter of intent should be sent to the Chairman of the Awards Committee, Professor Mario Fontana to whom all initial queries should be addressed to the following email: [fontana@ibk.baug.ethz.ch](mailto:fontana@ibk.baug.ethz.ch)

### **IAFSS Support for Student Participation in International Meetings**

The IAFSS Committee has given £1000 to the organisers of the 3<sup>rd</sup> International Symposium on Human Behaviour in Fires (Belfast, Northern Ireland, September 1-3, 2004) to provide assistance to students who wish to present papers at the meeting.

### **MEng/BEng in Structural and Fire Safety Engineering at Edinburgh University**

New MEng/BEng programmes are now available at the University of Edinburgh. They commenced at the beginning of the current academic year and take advantage of the expertise of the Academic Staff of the Civil and Environmental Engineering Discipline within the School of Engineering and Electronics. The Structures and the Fire Safety Engineering Groups have a long tradition of research and innovation at Edinburgh, encompassing steel, concrete and masonry construction on the one hand and compartment fire dynamics, fire protection systems and fire safety design on the other. They have combined successfully in the past in major research initiatives and in teaching Structural Fire Safety as a final year module.

The joint courses consolidate these interests to provide the first Fire Safety Engineering degrees which are firmly rooted in one of the best-established Engineering disciplines. This is unique and will ensure that the graduates have developed the essential skills and attitudes that are essential in any Engineering discipline. They will have the potential to contribute to the design, construction and management of the large, prestigious buildings of the future

Further details may be obtained from Dougal Drysdale ([d.drysdale@ed.ac.uk](mailto:d.drysdale@ed.ac.uk)) or José Torero ([j.torero@ed.ac.uk](mailto:j.torero@ed.ac.uk)).

### **Tokyo University of Science: 21st Century Centre of Excellence**

The Japanese Government is promoting a plan to form research centres capable of competing with the world's best by concentrating national funding for centre formation support grants in a limited number of postgraduate schools and affiliated research institutions with proven records. The

scheme is referred to as the 21st century Centre of Excellence (COE) Programme. A programme of Tokyo University of Science called "A Center for Advanced Fire Safety Science and Technology for Building" has passed its rigorous review and approved as a part of the 21st century COE program

With this view in mind, we sincerely ask teachers and researchers working for universities and research institutions in Japan as well as overseas universities and institutions to extend their kind cooperation and help us fulfil the objective of the COE. Moreover, we will employ additional teachers with tenure and temporary researchers, and invite visiting professors and researchers with tenure from overseas major universities and research institutions to enhance and enrich research and teaching systems at the centre. To be more specific, Tokyo University of Science will officially sign collaborative research agreements with overseas major universities and research institutions so that both universities and research institutions will work together on research (physical and chemical phenomenon of fire, fire statistics, fire risk, human behaviour in fire, etc.) and educational projects. With such background, we will work for the establishment of collaborative research and education activities and the development of an international research information network.

Project Leader: Prof. Takao Wakamatsu

([wakamatu@rs.noda.tus.ac.jp](mailto:wakamatu@rs.noda.tus.ac.jp))

International Affairs Liaison: Dr. Yoshifumi Ohmiya

([ohmiya@rs.noda.tus.ac.jp](mailto:ohmiya@rs.noda.tus.ac.jp))

### **UPTUN: Upgrading Methods for Fire Safety in Existing Tunnels**



In the European transportation network, tunnels are among the key elements. Due to the strong increase of traffic and the growing transport of dangerous goods, the safety level in most existing tunnels has decreased considerably. In addition, some accidents in recent years have drawn widespread public attention to the risks of fires in tunnels.

Upgrading the safety level in existing tunnels has become a widespread necessity to contribute to the development of sustainable transportation systems, needed in a healthy European economy. In the upgrading process, fire safety has to be looked upon in an integral and holistic way, taking into account all relevant aspects such as probability of incidents, consequences of fires, human response, structural response, emergency response teams, and tunnel operators.

Responding to this necessity the UPTUN-project has been set up with the financial support of the European Commission.

The main objectives of the UPTUN project are:

- Development of innovative technologies and assessment of existing technologies for upgrading the safety level of existing tunnels. The focus is on technologies in the areas of detection and monitoring, mitigating measures, influencing human response, and protection against structural damage. The main output is a set of innovative cost-effective technologies.
- Development, demonstration and promotion of procedures for rational safety level evaluation, including decision support models, and knowledge transfer. The main output is a risk-based evaluating and upgrading model.

To achieve these objectives, the UPTUN consortium has been built of 41 partners from 17 European countries, covering all relevant expertise, with sufficient mass and impact to ensure adoption of UPTUN results throughout Europe. The work of the UPTUN consortium started in September 2002 and is scheduled to finish in August 2006. It is divided into 7 technical work packages (WP):

- WP 1 Prevention, detection and monitoring
- WP 2 Fire development and mitigation measures
- WP 3 Human response
- WP 4 Fire effect & tunnel performance: system structural response
- WP 5 Evaluation of safety levels and upgrading of existing tunnels
- WP 6 Fire effects and tunnel performance: system response
- WP 7 Promotion, dissemination, education/training, and socio-economic impact

The first four WP's are to increase insight about fires in tunnels, to develop new measures to reduce the probability of their occurrence and to mitigate their consequences. The fifth and sixth work-packages are mainly focussing on the development of the innovative integral upgrading approach. The last work-package is to promote and disseminate the results.

In the symposium *Safe & Reliable Tunnels* three major European projects about tunnel safety, UPTUN, DARTS and FIT, will join forces to disseminate results and discuss ongoing developments. The symposium will be held from **4-6 February 2004 in Prague**. It will address all aspects related to the design, construction, maintenance, and upgrading of tunnels, including human behaviour and hazards. For symposium registration, for contact to members of UPTUN and for more information refer to: [www.uptun.net](http://www.uptun.net).

### **CSIRO: Full-scale fire experiments on a passenger rail carriage**

CSIRO Fire Science and Technology Laboratories (Australia) recently conducted a series of full-scale fire experiments on a passenger rail carriage in collaboration

with Queensland Fire and Rescue Services and Queensland Rail. Experiments included a series of tests at one carriage end investigating fire growth and spread on seating and lining materials resulting from different ignition sources. The final experiment involved the whole carriage with at least half the carriage fitted out to represent a typical Australian passenger rail vehicle. The aim was to develop an understanding of how fires develop and spread in trains and to use this to produce more realistic models of train fires. The carriage was fitted out with at least 130 instruments including thermocouples, radiometers, flow probes and gas analysis equipment.

CSIRO is currently analysing the experimental data and hope to produce a report and papers early in the new year. This forms part of an ongoing CSIRO research effort in this area



### **Report on 4th International Seminar on Fire and Explosion Hazards**

The 4<sup>th</sup> International Seminar on Fire and Explosion Hazards (ISFEH) was organised by the University of Ulster in Londonderry 7-12 September 2003. The first two seminars had been held in Moscow in 1995 and 1997, and the third in Lake Windermere, England in 2000. It seems that the Irish version with a Russian tint was the most successful. The biggest ever number of 170 participants from 25 countries worldwide joined this recognised international gathering. The Seminar brought together researchers and international experts working on the underlying science and technology associated with fire and explosion hazards.

Papers presented at the Seminar addressed advances in fire and explosion sciences, and the application of scientific principles to prevent and mitigate the adverse effects of accidental fires and explosions. 107 high quality presentations were given during the Seminar in three parallel sessions, including 7 invited (plenary) lectures from world experts in fire, explosion and combustion. Papers covered a wide range of topics including fire dynamics, compartment fire modelling, CFD modelling of fires and explosions, chemical processes in fires and lessons learned from case studies. The programme had a good balance of papers addressing theoretical, experimental and computational topics.

The International Steering Committee has decided that the 5<sup>th</sup> ISFEH will be held in 2006 at the University of Edinburgh

### **Report on 2nd International Conference in Pedestrian and Evacuation Dynamics**

Over 100 of the world's leading experts in Pedestrian and Evacuation Dynamics (PED) were brought together at the University of Greenwich, London UK from 20-22 August 2003 to attend the 2<sup>nd</sup> International PED Conference.

Organised by the Fire Safety Engineering Group (FSEG) of the University of Greenwich, PED 2003 represented the second international conference in the PED series. As the world's only conference dedicated to the computer simulation of pedestrian and evacuation dynamics, the conference offered a unique opportunity for experts and beginners, model developers and model users, regulators and design engineers to gain insight into the rapidly changing world of computer simulation of evacuation and circulation dynamics.

Held over three days, the conference focused on the main themes of:

Day 1: Pedestrian Dynamics; Pedestrian Performance Data;  
Day 2: Marine Evacuation Models; Marine Evacuation Applications and Data Collection;  
Day 3: Building Evacuation Models; Building Evacuation Applications and Data Collection.

Believed to be a first for a major fire conference, the entire three day conference was broadcast to the world by FSEG using the World Wide Web. Viewers of the web broadcast could see the speakers PowerPoint slides, hear the speakers and even participate in the conference by asking questions via email. In total 1,638 participants from 19 countries took part in the conference via the live Web Broadcast.

Bound conference proceedings and a DVD collection of the presentations (containing chair's introduction of speaker, speaker's PowerPoint slides, speaker's commentary and question session) are available through the FSEG web site at <http://fseg.gre.ac.uk/ped2003>

The next PED conference will be held in Austria in 2005.

*Prof. Ed Galea, University of Greenwich*

### **Honours Bestowed on Fire Safety Engineering Group, University of Greenwich**

2003 marked unprecedented success for the Fire Safety Engineering Group (FSEG) of the University of Greenwich, with the national and international recognition of three top awards for their contributions to evacuation research.

In February Prof Ed Galea and the FSEG team received Britain's top academic award, the coveted Queen's Anniversary Prize, from the Queen at a ceremony in Buckingham Palace. The award was made in recognition of FSEG's valuable contribution to evacuation research. The citation read: *"The University is a recognised world leader in the area of evacuation model development. Use of its software technology by businesses and public authorities greatly enhances public safety and its specialised training offers vital expertise to the user community worldwide."*

The biennial Queen's Anniversary Prizes recognise and reward the outstanding contribution that universities and colleges in the United Kingdom make to the intellectual, economic, cultural and social life of the nation.

In July, a team from FSEG consisting of Prof Ed Galea, Mr Simon Blake, Dr Peter Lawrence and Dr Steve Gwynne, won the Hogson Prize of the Royal Aeronautical Society for the best paper appearing in the Aeronautical Journal for 2002. Their award-winning paper was entitled, *"Examining the effect of exit separation on aircraft evacuation performance during 90 second certification trials."*

Finally, in October, Ed and the FSEG team were honoured by the European Council of Applied Sciences, Technology and Engineering (Euro-CASE) 'European IST (Information Societies Technology) Award' in a ceremony in Milan Italy. The award, which is Europe's most prestigious technology prize, was in recognition of the development of the EXODUS suite of evacuation simulation software.

## **JOB ANNOUNCEMENTS**

### **Director: Center for Firesafety Studies, Worcester Polytechnic Institute**

This position in this unique center requires a broad range of skills with emphasis on entrepreneurship, administration and development. The director should have a track record of positive relationships within the fire protection engineering community and have the ability to work successfully with a diverse constituency. Candidates should have clear leadership ability and a realistic understanding of the needs of the profession. In addition to the directorship, a non-tenure track professor-of-practice academic appointment in fire protection engineering and some teaching and research are anticipated.

Founded in 1979, the WPI Center for Firesafety Studies functions as an interdisciplinary crossroads for graduate study, technology transfer and research in a broad range of fire protection areas. Over 150 students are enrolled in fire

protection engineering certificate and masters programs with courses delivered both on campus and worldwide via the Advanced Distance Learning Network. A doctoral program in FPE is also offered at the main campus in Worcester, MA, USA.

A complete resume, along with a two page narrative statement of relevant attributes may be submitted in confidence to Dr. Diran Apelian, Search Committee Chair, using mail or email as follows:

Department of Human Resources  
Worcester Polytechnic Institute  
Worcester, MA 01609 USA  
Attention: FPE Search Committee

Email [human-resources@wpi.edu](mailto:human-resources@wpi.edu) (use Microsoft Word® attachments)

This position will remain open until filled. WPI is an Equal Opportunity Employer. Qualified women and minorities are strongly encouraged to apply

### **Director, FireSERT, University of Ulster**

It is anticipated that that an advertisement for the position as Director of the Institute for Fire Safety Engineering Research and Technology (FireSERT) at the University of Ulster will be widely advertised in early 2004. The University supports FireSERT and will seek to make a strategic appointment that will enable the further development in the decades ahead. The current Director, Prof. T.J. Shields, will retire from the position in January 2004. He will continue to serve the University as Emeritus Professor assisting where he can with research.

It is an exciting time at FireSERT - the new laboratories are on stream, research student numbers are up, the MSc programmes attract students from all over the world and FireSERT is going E-Learning. A description of the activities of FireSERT can be found at the web site <http://www.engi.ulster.ac.uk/FIRESERT/>

## **CONFERENCE NOTICE BOARD**

### **6th Asia-Oceania Symposium on Fire Science Technology**

The 6th Asia-Oceania Symposium on Fire Science & Technology (AOSFST) will be held March 17-20, 2004 in Daegu, South Korea. The principal host of the symposium will be the Korea Institute of Fire Science and Engineering. The program will include plenary papers, symposia session papers, poster papers and technical demonstrations in the following areas of fire science and technology: fire chemistry and physics; fire dynamics; fire investigation; fire risk assessment; fire safety issues (management, design, legislation, education); fire spread and structure response; fire suppression and detection; forest fires; gas explosions; people/fire interactions; performance-based codes; smoke movement; and special hazards

More information about the conference can be found on the web site <http://www.kifse.org>

### **5<sup>th</sup> International Conference on Wood and Fire Safety**

The 5<sup>th</sup> International Conference on Wood and Fire Safety will be held April 18-22, 2004 (new dates) in the High Tatras, Slovak Republic. The aim of the conference is to provide a forum whereby multi-disciplinary issues and recent research related to fire safety of wood products and assemblies are presented and discussed. More information about the conference can be found at the web site <http://www.wfs.tuzvo.sk/>

### **Call for Papers: Third International Workshop: Structures in Fire**

National Research Council Canada's Institute for Research in Construction is hosting the "Third International Workshop Structures in Fire" (SiF'04) in Ottawa May 10-11, 2004. The focus of the workshop will be on determining the behaviour of structures exposed to fire by various means – testing, calculation and numerical modelling. Topics to be addressed include the behaviour of materials, systems, and building structures, when exposed to fire. This workshop will bring together experts in fire resistance research from around the world and stimulate discussion on the behaviour of structures in fire.

A summary of proposed papers must be sent to [jm.franssen@ulg.ac.be](mailto:jm.franssen@ulg.ac.be) before 31 January 2004. All summaries will be reviewed and must contain enough information to allow reviewers to decide if the paper fits with the goals of the workshop and whether there is enough new information to warrant its presentation. Accepted papers must be submitted before April 15, 2004. More information about the conference can be found at the web site <http://irc.nrc-cnrc.gc.ca/frm/SiF2004/index.html>

### **10<sup>th</sup> Interflam Conference, 5-7 July 2004, Edinburgh, UK**

The 10<sup>th</sup> Interflam Conference on fire science and engineering will be held July 5-7, 2004 at the Edinburgh Conference Centre at Heriot Watt University, Scotland. Interflam has grown from being the largest and longest established international fire research conference (held every 3 years since 1979) into a multifaceted event with the conference at the core of the programme. Poster sessions, exhibitions, demonstrations, workshops, discussion groups and student activities all add to the value of the event. Interflam attracts papers from the principal organisations active in fire studies. It is targeted to create an interface between the researcher, fire safety engineer, fire service professional and designer. The full programme will be available mid-February 2004. For more details concerning the conference, visit the conference web site <http://dSPACE.dial.pipex.com/intercomm/html/events/interflam04.htm>

## CONFERENCE NOTICE BOARD cont/...

### Call for Papers: 3<sup>rd</sup> International Symposium on Human Behaviour in Fire

A Call for Papers has been issued for the 3rd International Symposium on Human Behaviour which will be held September 1-3, 2004 in Belfast, Northern Ireland. The symposium is being jointly organised by Interscience Communications and FIRECERT, University of Ulster. The three day event will be structured under the broad banner of Public Fire Safety - Professionals in Partnership, with supporting themes of Community Fire Safety, Physical and Operational Safety Systems, Care of Vulnerable Populations and Impacts of Major Fire Events. The symposium will focus on research informed policy making, advances in human behaviour in fire research and knowledge/technology transfer with respect to the symposium themes. Other emerging needs for human behaviour in fire research, e.g., tunnel fires will also be addressed.

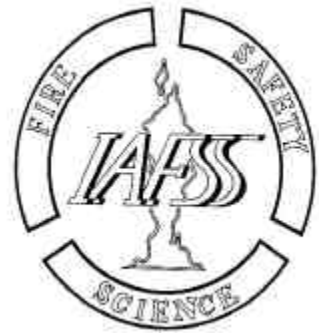
An abstract, two to three pages in length, must be submitted by January 20, 2004. It can be submitted to Interscience Communications Limited at [intercomm@dial.pipex.com](mailto:intercomm@dial.pipex.com). For more information concerning the conference visit the website <http://www.engj.ac.uk/FIRECERT>  
<http://www.engj.ac.uk/FIRECERT/course>

A Research Student Workshop will take place on the day preceding the symposium and will provide the opportunity for research students to meet and present their work in an informal environment. Further details of the workshop and application form can be downloaded from: <http://www.engj.ulst.ac.uk/hubfn>

### 5<sup>th</sup> International Conference on Performance-based Codes and Fire Safety Design Methods

The 5<sup>th</sup> International Conference on Performance-based Codes and Fire Safety Design Methods will be convened October 6-8, 2004 in Luxembourg. The conference is sponsored by the Society of Fire Protection Engineers (SFPE) in cooperation with the European Commission, and is co-sponsored by the Institution of Fire Engineers, the International Council for Research and Innovation in Building and Construction (CIB) and the Inter-jurisdictional Regulatory Collaboration Committee. Performance-based codes, regulations and design methods are gaining formal and widespread acceptance in many countries. This conference promises to continue the tradition established by SFPE to present the state of the art in performance-based code approaches and design methods.

For more information concerning the conference visit the website <http://www.sfpe.org>



#### The Full Committee

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Dr David Yung (Canada)

#### Secretariat

Carole Franks  
C/o Interscience Communications  
West Yard House  
Guildford Grove  
Greenwich  
London SE10 8JT  
UK

Tel: +44 (0)20 8692 5050  
Fax: +44 (0)20 8692 5155  
Email: [iafssmembers@dial.pipex.com](mailto:iafssmembers@dial.pipex.com)