



日本防火技術者協会ニュース

第4巻 第4号(通巻第14号) (1/2)
2007年12月20日

特定非営利活動法人日本防火技術者協会

NPO 法人日本防火技術者協会 平成20年度通常総会予告

日時：平成20年2月1日(金)
13:30～14:00

場所：東京理科大学森戸記念館

議題内容《予定》

- 1) 平成19年度事業報告
- 2) 平成20年度活動計画
- 3) 会計報告、予算計画
- 4) 監査報告
- 5) その他



SFPE・Jニュース
(SFPE日本支部
の活動第18号)

S F P E 日本支部 2008年度通常総会開催案内

日時：平成20年2月1日(金)
14:00～14:30

場所：東京理科大学森戸記念館

議題内容《予定》

- 1) 2007年度事業報告
- 2) 2008年度活動計画
- 3) その他

シンポジウム開催案内

「近隣アジア諸国との連携を探る」

日時：平成20年2月1日(金)
14:30～17:00

場所：東京理科大学森戸記念館

講演内容《予定》

1. 近隣アジア諸国 SFPE 支部の現状と交流 関沢 愛(SFPE日本支部)
2. 中国での性能的設計事例の紹介 油野健志(ARUP JAPAN)
3. 台北駅の防災計画他の台湾における性能的設計事例の紹介 簡 賢文(SFPE台湾支部長)

7th International Conference on Performance-Based Codes and Fire Safety Design Methods
第7回性能基準と火災安全設計法に関する国際会議

Auckland, New Zealand

April 16-18, 2008

第7回性能基準と火災安全設計法に関する国際会議は、2008年4月16～18日にニュージーランドのオークランドで開催されます。

Registration Fees:

Advance Registration Fees (Must be received by 7 March 2008)

\$825 US Dollars for SFPE/CIB/SFS Members

\$980 US Dollars for Non-Members

Late Registration Fees (Received after 7 March 2008)

\$925 US Dollars for SFPE/CIB/SFS Members

\$1,050 US Dollars for Non-Members

Gala Dinner Ticket

1 Ticket included with Registration Fees - FREE

Additional Tickets are \$100 U.S. Dollars

詳細は、SFPE ホームページに掲載されています。公式案内の pdf ファイルを巻末に添付します。

ケーススタディ作業は 順調に進行中

ケーススタディの今年の課題は、階段が一つしかない高層集合住宅です。バルコニーや、周回廊下の設置で手堅くまとめる方向もありましたが、それではアピール度が低いとの意見もあり、三層ごとに区画された吹抜をコミュニティの核としてそれが非常時には避難拠点にもなると言う高いハードルを掲げて挑戦しています。1月末の原稿締め切りに向けてこれらが正念場となりますのでよろしくご支援をお願いします。

東京大学・消防防災科学技術寄付講座

公開セミナー開催案内

東京大学消防防災科学技術寄附講座の第3回公開セミナーが東京大学で開催されます。

URL: <http://www.fse.t.u-tokyo.ac.jp> に詳細
主催：東京大学消防防災科学技術寄附講座
開催日時：平成20年1月21日(月)

13:30～17:00(開場 13:00)

会場：東京大学山上会館

(本郷キャンパス内三四郎池の近く)

主題：大規模災害時における危機管理プログラム：

13:30 - 13:40

(1)開会の挨拶と主題解説

東京大学消防防災科学技術寄付講座

関沢 愛

13:40 - 14:40

(2)「大規模災害時における自治体の危機管理」

Blog 防災・危機管理トレーニング主宰
(消防大学校客員教授) 日野 宗門

14:40 - 15:40

(3)「企業における危機管理」

三菱地所都市計画事業室副室長 水口 雅晴
16:00 - 17:00

(4)パネルディスカッション

(3名の講師と会場)

参加費：無料

定員：先着100名

申込締切：平成20年1月17日(木)

申込方法：以下の項目を記入して下記申込

先にFAX,あるいはE-mailにて申込み

1)氏名 2)所属 3)連絡先(勤務先住所・電話及びFAX・E-mail)

FAX(03)5841-7327

E-mail: takahashi@fse.t.u-tokyo.ac.jp
(高橋あて)

講演会のご案内

東京理科大学・21世紀COEプログラムのシンポジウムが下記の日程で開催予定です。詳細は、別途お知らせいたします。

主催 東京理科大学

21世紀COEプログラム

協賛 日本防火技術者協会他

日時：平成20年3月10・11日

両日とも9:00～17:00

主題：(第一日目)招待講演
火災安全科学における卓越した研究拠点とそのグローバルネットワークの構築

(第二日目)一般学術講演

場所：グランドプリンスホテル赤坂

Web: <http://www.rs.noda.tus.ac.jp/coe-fire>

第19回安全計画シンポジウム 開催案内

主催：日本建築学会・安全計画小委員会

日時：平成20年3月12日(水)

14:00～17:00

会場：建築会館会議室

主題：建築物の想定外災害に対応した安全計画のあり方 - 地震・火災に対する人命安全を中心として -

プログラム：

(1)主旨説明：掛川秀史(清水建設)

事務局住所：〒107-0052 東京都港区赤坂3丁目11番15号 赤坂桔梗ビル 4F ERS内

発行人：日本防火技術者協会 理事長 笠原 勲

編集者：同協会・理事会 広報担当 堀田博文

問合せ先 E-mail: kasahara@otokan.co.jp fukui@nikken.co.jp Hhotta1@aol.com



(2)主題解説

- ・近年の主な災害事例に基づく想定外災害の考え方：八木真爾（佐藤総合計画）
- ・火災に対する人命安全対策の想定条件：萩原一郎（建築研究所）
- ・地震に対する人命安全対策の想定条件：和田章（東京工大）
- ・想定外の事態に備えるためのリスク軽減手法の考え方：吉村英祐（大阪工大）

(3)討論・質疑

定員：50名

参加費：会員 2000円，会員外 3000円
 申込：氏名、所属、TEL、FAX、E-mail
 を明記のうえ，E-mailにて下記まで
 建築学会事務局 森田 morita@aij.or.jp

講演討論会

「製品設計と火災の実態」

開催案内

主催：日本火災学会

日時：平成20年1月23日（水）

13:00～16:30

場所：文京シビックホール（小ホール）

参加費：無料(ただしテキスト代 1,000円)

演題1「原子力施設の残余リスクとその社会的受容」東京理科大学 森田昌宏

演題2「リチウムイオン電池と安全性」

(社)電池工業会 伊勢忠司

演題3「電池設備や製品に起因する火災とその防止への取り組み事例の紹介」

デンパール工業(株) 古本哲男

演題4「ガス器具の火災防止対策」

東京ガス(株) 青柳恵子

討論

交通：東京メトロ丸の内線・南北線：

後楽園駅徒歩1分：詳細は火災学会

ホームページをご覧ください。

http://www.soc.nii.ac.jp/kasai/

Journal of Fire Protection

Engineering

Vol.17 No.4 NOVEMBER

2007

Speech Intelligibility Measurements in an Office Building.(事務所ビルにおける音声明瞭度測定)，
 J. P. Woycheese

Transfer of Architectural Data from the IFC Building Product Model to a Fire Simulation Software Tool, (IFC

建物プロダクトモデルから火災シミュレーションソフトウェアへ建築データの変換)，
 M. Spearpoint.

Performance-based Fire Safety Design of Reinforced Concrete Beams, (鉄筋コンクリート梁の性能的火災安全設計)，
 V. K. R. Kodur and M. Dwaikat.

FIRE PROTECTION Engineering No.36 FALL 2007

Roundtable Discussion on Energy and New Fire Protection Challenges. (エネルギーと新たな防火工学の挑戦に関する円卓会議)

Experts discuss emerging Alternative energy sources and their impact on fire protection engineers, regulators, owners and consumers(代替エネルギー源による防火技術者、規制当局者、オーナーおよびエンドユーザーへの影響を専門家が語る)
 Carl F. Baldassarra, P. E., FSFPE.

Risk Assessment in the Oil and Gas Energy Industry. (石油・ガス産業におけるリスクアセスメント)

Steps for assessing fire risk with an emphasis on identifying hazards, determining likelihood and defining risk tolerance. (ハザードの特定、発生頻度の予測、許容リスク量の定義というステップを通じて火災リスク評価を行う方法)
 John A. Alderman, P. E., and William Fink.

Implementation of a Performance-Based Standard for Fire Protection for Nuclear Power Plants. (原子力発電所の防火のための性能基準の導入)

Highlights of NFPA 805, a consensus standard developed to manage fire risk at nuclear power plants. (NFPA805 - 原子力発電所における火災リスク運用のために開発された規準の概要)
 Harold T. Barrelet, P. E..

Fire Protection/Life Safety in a Sustainable Design World, (持続可能な設計の枠組みにおける防火・人命安全)

How to address fire/life safety concerns while incorporating sustainable design elements into a project. (プロジェクトに持続可能性コンセプトを組み込む場合に生ずる火災および人命安全上の懸念にどのように向き合うべきか?)
 Ronald J. Mahlman, P. E..

It's Not Your Father's Fire Alarm Code Anymore. (もはや頑固オヤジのような火災警報基準ではない)

The evolution of fire alarm systems over the last century. (20世紀における火災警報システムの進化)
 NEMA.

新入会員

新たに入会された個人会員5名の方々を記載しました。(敬称略)

〔会員〕

天野賢志〔(株)損保ジャパン・リスクマネジメント〕

皿井也保子〔 - 〕

高橋祥直〔日本 ERI (株)〕

荻原龍三〔(株)ゼファー〕

水上貴之〔TOTOパスクリエ(株)〕

〔合計 109名〕

〔学生会員〕

〔1名〕

〔賛助会員〕〔合計 5団体〕〔計 7口〕

理事会等の開催結果

理事会を以下の日に実施しました。

10月19日(金)

11月15日(木)

ホームページ開設中

NPO 法人日本防火技術者協会のホームページを開設中。

URL は、<http://www.jafpe.or.jp>

です。

SFPE 本部のホームページもご利用下さい。

URL は、<http://www.sfpe.org/>

です。

7TH INTERNATIONAL CONFERENCE ON PERFORMANCE-BASED CODES AND FIRE SAFETY DESIGN METHODS

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Co Sponsors:

Society of Fire Protection Engineers

SFPE New Zealand Chapter

Society of Fire Safety

International Conference for Research
and Innovation in Building Construction (CIB)

Auckland, New Zealand
April 16-18, 2008



www.sfpe.org

ABOUT THE CONFERENCE

Since the first conference on performance-based codes and fire safety design methods was held in 1996, many countries have developed, or are in the process of developing, performance-based codes and design methods. However, use of these approaches has generally been limited to high-end projects, and the percentage of projects where performance-based design is used varies among countries.

This conference will present the state-of-the-art in performance-based code approaches and engineering design methods. Papers will be presented on newly emerging technologies, as well as perspectives on approaches that have worked well and approaches that have not worked as well as originally desired. The conference will be held in New Zealand, which was one of the first countries to adopt a purely performance based Building Code.

Over the last twelve years, this conference has earned a reputation among the fire protection engineering community as the preeminent event for information on the leading-edge technology in the areas of performance-based codes and engineering design methods.

PROGRAM COMMITTEES

Program Committee

Richard Bukowski, National Institute of Standards and Technology, USA

David Charters, Building Research Establishment LTD, UK

Neil Gravestock, Marsh, LTD, New Zealand

Morgan Hurley, Society of Fire Protection Engineers, USA

Peter Johnson, ARUP Fire, Australia

Robert Jönsson, Lund University, Sweden

Joël Kruppa, CTICM, France

Ai Sekizawa, National Research Institute of Fire and Disaster, Japan

Michael Spearpoint, University of Canterbury, New Zealand

Beth Tubbs, International Code Council, USA

Organizing Committee

Julie Gordon, Society of Fire Protection Engineers, USA



CONFERENCE PROGRAM

Wednesday, April 16, 2008

Performance-Based Codes

0900 – 0915

Welcome

0915 – 0940

Using Risk as a Basis for Establishing Tolerable Performance in Performance-Based Building Regulation, B. Meacham

0940 – 1005

Codes for Existing Buildings: Different Approaches for Different Countries, D. Bergeron

1005 – 1055

Parallel Sessions

Session 1

Review of the Japanese Performance-Based Code — Recommendations by the Research Committee on Building Legislation in AIJ, N. Takeichi, K. Matsumoto, and W. Gojo

Performance Based-Codes and their Role in the Scottish Building Standards System, P. Stollard

Session 2

The Fire Engineering Brief Process in Performance Based Fire Engineering — Is it Working?, M. Feeney and J. Schulz

The New Zealand Building Act 2004 and the Involvement of the New Zealand Fire Service, A. Merry and M. Spearpoint

1055 – 1130

Break

1130 – 1220

Parallel Sessions

Session 1

Performance Codes and Design in the US: An International Code Council (ICC) Perspective, B. Tubbs and R. Okawa

Performance Based Design in Norway — Room for Improvement Based on 10 Years of Experience, V. Stenstad and W. Bjorkmann

Session 2

The Application of Performance Based Fire Engineering in New Zealand, G. Thomas, S. Davis, and M. Feeney

Implications of New Research for Code Writers, Fire Engineers and Manufacturers in the Performance Based Environment, I. Thomas and D. Bruck

1220 – 1400

Lunch

1400 – 1515

Parallel Sessions

Session 1

Research in Support of Performance-Based Solutions in the National Construction Codes of Canada, D. Bergeron

Proposed Framework for Performance Based Fire Engineering Design in the Next Generation New Zealand Building Code: Specification of the Design Fire, C. Fleischman

Proposed Framework for Performance Based Fire Engineering Design in the Next Generation New Zealand Building Code: Behavioural Characteristics, Acceptance Criteria and Performance, N. Saunders and A. Moule

Session 2

Performance Based Design — Putting it Together On Site, J. Clarke and J. Schulz

Buildings for All — Fire Safety for All?, B. Mostue

Performance-Based Design for Fire Safety in China, D. Gemeny, F. Li, and M. Reiss



CONFERENCE PROGRAM

Wednesday, April 16, 2008 *(continued)*

1540 – 1515 **Break**

1515 – 1630 **Parallel Sessions**

Session 1

Proposed Framework for Performance Based Fire Engineering Design in the Next Generation New Zealand Building Code: Specification of Fire Scenarios, C. Wade

Proposed Framework for Performance Based Fire Engineering Design in the Next Generation New Zealand Building Code: Systems Performance, Sensitivity and Uncertainty, P. Beever

Benchmarking Life Safety for the Proposed Fire Performance Framework in the Next Generation New Zealand Building Code, D. Lloyd and C. Fleischmann

Session 2

Performance Based Designed without Performance Based Codes? — Practice Used in Poland, T. Cisek, M. Skaznik, and M. Cisek

Fire Safety of High Rise Staged Occupancy Buildings, J. Barnett

Super-Tall Building Design: Use of Performance-Based Requirements to Provide Design Flexibility and an Understanding of Building Performance, A. Vanney and D. Choi

Thursday, April 17, 2008

Fire Safety Design Methods

0900 – 0925 *Emergency Egress from Buildings, R. Bukowski*

0925 – 0950 *The Effects of Using Passenger Lifts and Escalators for the Evacuation of Building Occupants in Fire and Other Emergencies in High Rise Buildings and Underground Complexes, D. Charters, D. Smith, R. Chitty, and J. Frazer-Mitchell*

0950 – 1015 *The Influence of Fire Department Intervention for the Fire Safety of High-Rise Buildings, B. Tómasson, B. Karlsson, J. Bengtsson, and D. Porsteinsson*

1015 – 1040 *Risk-Based Determination of Design Fires for Performance-Based Evacuation Safety Designs of Buildings, T. Tanaka*

1040 – 1115 **Break**

1115 – 1230 **Parallel Sessions**

Session 1

Performance of Means of Egress: Conducting the Research Needed to Establish Realistic Expectations Taking into Account Demographic Changes and Other Factors, J. Pauls

The Evacuation Module of Fire Dynamics Simulator: FDS+EVAC, T. Korhonen, S. Hostikka, S. Heliövaara, and H. Ehtamo

A Performance-Based Evaluation of an Alternate Method for Protecting High-Rise Stair Enclosures, M. Ferreira

Session 2

Design Fires for Vehicles in Road Tunnels, M. Cheong, M. Spearpoint, and C. Fleischmann

Road Tunnel Fire Safety — Approach to Fire Scenarios, P. Johnson, C. Gildersleeve, and P. Williams

The Study of Fire Safety Design and Developing Trends of Taiwan's Road Tunnel Based on Safety Management for the Hsuehshan Tunnel, S. Chien, B. Shih, S. Ke, and H. Hsieh



CONFERENCE PROGRAM

Thursday, April 17, 2008 *(continued)*

1230 – 1400

Lunch

1400 – 1425

An Analysis of the Target Safety Level Implied in Fire Resistance Design Method for Localized Fires in the Building Standards Law of Japan, A. Natori, K. Harada, and T. Wakamatsu

1425 – 1450

Redefining Fire Safety in Swedish High-Rise Buildings, F. Nystedt and T. Rantatalo

1450 – 1515

Required Safe Egress Time: Data and Modeling, J. Averill and P. Reneke

1515 – 1700

Parallel Sessions

Session 1

Fire Brigade Intervention Model in Australia — Understanding and Applying the Concepts, A. Alexandrovski and D. Boverman

The Validity and Applicability of Fire Models Used to Predict the Mass Flow of Smoke Within the Built Environment, I. Sanderson, T. Kilpatrick, and J. Torero

A Middle Ground Approach to Structural Fire Resistance Analysis, C. Hofmeister

Session 2

Methodology for Risk Based Fire Resistance Design of Structural Members, M. Nilsson, M. Ödén, and S. Jeansson

Fire Safety Design Principles for Life-Safety and Load-Bearing Structures — Fundamental Differences in Controlling Fire Risk, J. Lundin

Enhanced Structural Fire Protection for a Tall Building Against a Catastrophic Fire — Probabilistic Evaluation of Performance and Economic Value, G. Ramachandran

1800

Conference Gala Dinner

Friday, April 18, 2008

Case Studies

0900 – 0915

Introduction

0915 – 1000

New Zealand Case Study — Richard Brand, Beca Carter Hollings and Ferner, LTD, et al.

1000 – 1045

Hong Long Case Study — W. K. Chow, Hong Kong Polytechnic University, et al.

1045 – 1115

Break

1115 – 1200

Swedish Case Study, Johan Lundin, WSP Fire and Risk, et al.

1200 – 1245

Australian Case Study — Ian Thomas, Victoria University, et al.

1245 – 1400

Lunch

1400 – 1445

American Case Study — William Koffel, Koffel Associates, et al.

1445 – 1515

Break

1515 – 1600

Japanese Case Study — Kasahara et al.

1600 – 1625

Single Means of Escape from High-rise Apartment Buildings — The SME Project, T. Enright and J. Gardiner



CONFERENCE PROGRAM

Conference Gala Dinner

The conference gala dinner will take place on Thursday 17 April 2008 starting at 1800 hours in the Rangitoto Ballroom of the Langham Hotel Auckland. One conference gala dinner ticket will be included with each registration. Additional tickets are available at \$100 U.S. dollars per person.

REGISTRATION

There are three easy ways to register:

- 1. Register Online:** Register online on SFPE's secure web site: www.sfpe.org. Follow the easy online directions.
- 2. Register by Fax:** Complete the registration form in this brochure and fax it to SFPE at +1.301.718.2242.
- 3. Register by Mail:** Complete the registration form in this brochure and mail to: "7th International Conference on Performance-Based Codes and Fire Safety Design Methods," c/o Society of Fire Protection Engineers, 7315 Wisconsin Avenue, Suite 620E, Bethesda, MD 20814, USA.

Payment **MUST** accompany the registration form, and a receipt will be sent as confirmation via U.S. postal mail. We accept American Express, Visa or MasterCard payments, and all cheques must be made payable in U.S. dollars to "SFPE."

Advance Registration is available through 7 March 2008.

Late Registration is available from 8 March 2008 until 31 March 2008.

After 31 March 2008, registration will be available on-site only. On-site registration will be offered on-site Wednesday 16 April 2008 from 0730 to 1700 at the Langham Hotel Auckland.

Special Requirements

If you have any special requirements due to disability or special dietary needs, such as: vegetarian, pork, shell fish, etc., please contact SFPE Headquarters at +1.301.718.2910 ext. 104, e-mail at jgordon@sfpe.org or indicate your requirements on the **Conference Registration Form**.

HOTEL

Official SFPE Conference Hotel – Langham Hotel Auckland

Address: 83 Symonds Street, Auckland 1140, New Zealand

Phone: +64 9 379 5132

Fax: +64 9 377 9367

www.langhamhotels.com

The hotel is centrally located in the vibrant Auckland City, and is close to key motorway access points, and within walking distance of parks, fashion houses, cafes, bars, the Auckland War Memorial Museum, the Auckland Art Gallery and the waterfront.

The SFPE room rate is \$185.00 NZ + GST for a superior room and \$215.00 NZ + GST for an executive room.

Reservations must be made by **Friday, February 15, 2008** in order to receive the SFPE room rate and to be assured room availability. Individuals are responsible for making their own reservations. When making your reservations, please state that you are part of the **SFPE** group.

CONFERENCE REGISTRATION FORM

Please complete this form and return it to:

7TH INTERNATIONAL CONFERENCE ON PERFORMANCE-BASED CODES AND FIRE SAFETY DESIGN METHODS

Society of Fire Protection Engineers

7315 Wisconsin Avenue | Suite 620E | Bethesda, MD 20814, USA | p: +1.301.718.2910 | f: +1.301.718.2242 | education@sfpe.org | www.sfpe.org

Name _____
(first) (initial) (last)

Organization _____ Title _____

Address _____

City/Town _____ Prov/State _____ Postal Code _____

Country _____

Phone _____ Fax _____

E-mail _____

Nickname _____

Special Requirements _____
(dietary or accessibility)

REGISTRATION FEES

Advance Registration Fees *(Must be received by 7 March 2008)*

- \$825 US dollars for SFPE/CIB/SFS Members \$ _____
- \$950 US dollars for Non-Members \$ _____

Late Registration Fees *(received after 7 March 2008)*

- \$925 US dollars for SFPE/CIB/SFS Members \$ _____
- \$1,050 US dollars for Non-Members \$ _____

Gala Dinner Ticket

- 1 Ticket included with registration fees \$ **FREE**
- Additional Tickets: Qty: ____ x \$100 U.S. Dollars \$ _____

TOTAL \$ _____

MEMBER INFORMATION

This section must be completed to receive member discount:

- SFPE Member *My member number is _____
- CIB or SFS

**must include member number to receive discount*

- Non-member

METHOD OF PAYMENT

- Check Enclosed *(made payable to SFPE)*
- Credit Card *(please check one)*
- American Express MasterCard Visa

Card Number _____

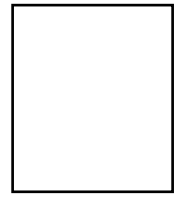
Exp. Date _____

Name on Card _____

Signature _____

Payment MUST accompany registration form.

SFPE Education & Scientific Foundation
7315 Wisconsin Avenue, Suite 620E
Bethesda, MD 20814 USA



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Co Sponsors: Society of Fire Protection Engineers, SFPE New Zealand Chapter, Society of Fire Safety, International Conference for Research and Innovation in Building Construction (CIB)

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7TH INTERNATIONAL CONFERENCE ON PERFORMANCE-BASED CODES AND FIRE SAFETY DESIGN METHODS

