

Activities at the Academic Unit, Department of Fire Safety Engineering at Lund University (Lund Institute of Technology), Sweden for the period 1996 - 2002

**Department of Fire Safety Engineering
Lund University, Sweden**

**Brandteknik
Lunds tekniska högskola
Lunds universitet**

Report 7018, Lund 2003

**Activities at the Academic Unit, Department of Fire Safety
Engineering at Lund University (Lund Institute of
Technology), Sweden for the period 1996-2002.**

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Brandteknik
Lunds tekniska högskola
Lunds universitet
Box 118
221 00 Lund

brand@brand.lth.se
<http://www.brand.lth.se>

Telefon: 046 - 222 73 60
Telefax: 046 - 222 46 12

Department of Fire Safety Engineering
Lund University
Box 118
SE-221 00 Lund
Sweden

brand@brand.lth.se
<http://www.brand.lth.se/english>

Telephone: +46 46 222 73 60
Fax: +46 46 222 46 12

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Department of Fire Safety Engineering

The Department of Fire Safety Engineering at Lund University has a unique position. It is the first department in Europe to provide education for Fire Protection Engineers at university level. The programme is designed principally for those wishing to work in the rescue services, the building industry, insurance companies and other industries.

The Department has a comprehensive educational program, based since 1986 on the Bachelors Programme in Fire Protection Engineering (www.brandingenjor.lth.se), to which 50 students are admitted each year. A Masters Programme in Risk Management and Safety Engineering (www.riskhantering.lth.se) was launched in 2001, to which 30 students are admitted annually.

Some of our main areas of research are:

- Risk-based fire engineering design
- Risk- and vulnerability analysis
- Modelling of fires
- Extinguishing media
- Industrial risks
- Rescue services.

Risk-based fire engineering design

When performance-based fire safety regulations were introduced, the need arose in the construction industry to be able to analyze the fire risk. Fire safety engineering design is thus based on the calculation of risk and verification of equivalent safety.

Risk- and vulnerability

Methods and tools for risk- and vulnerability analysis are being developed with the overall objective to make risk and crisis management work, at different levels of the society, more efficient.

Modelling of fires

A large proportion of our research is concerned with research into the early stages of the development of fires. The aim is to be able to predict the course of fires using models. Models are being developed for the prediction of flame spread and heat development, as well as Computer Fluid Dynamics (CFD) models for the simulation of fires in rooms.

Rescue services

Command and control in major fire-fighting and rescue operations are studied with the purpose of building up knowledge about conditions that facilitate command and control. Another project involves the detailed study of the phenomenon of flash over and backdraft.

The Department of Fire Safety Engineering is a part of Lund Combustion Centre. Since a national graduate school, Centre of Excellence in Combustion Science and Technology, CECOST, is also based at Lund Institute of Technology there are unique possibilities for fellows to follow advanced courses in the field. The present training is financed by the Marie Curie Fellowship scheme.

The department has been instrumental and a major force in the planning and creation of LUCRAM, Lund University Center for Risk Analysis and Management. LUCRAM was founded in 1998.

Personnel

Staff

Göran Holmstedt, professor	222 4882	goran.holmstedt@brand.lth.se
Sven-Erik Magnusson, professor	222 7366	sven_erik.magnusson@brand.lth.se
Lars Fredholm, professor	222 4259	lars.fredholm@brand.lth.se
Kurt Petersen, professor	222 4259	kurt.petersen@brand.lth.se
Håkan Frantzich, senior lecturer	222 7924	hakan.frantzich@brand.lth.se
Robert Jönsson, senior lecturer	222 7394	robert.jonsson@brand.lth.se
Anders Jacobsson, senior lecturer	222 4259	anders.jacobsson@brand.lth.se
Yan Zenghua, research assistant	222 4884	yan.zenghua@brand.lth.se
Berit Andersson, lecturer	222 9506	berit.andersson@brand.lth.se
Johan Lundin, lecturer	222 0180	johan.lundin@brand.lth.se
Daniel Gojkovic, lecturer	222 8853	daniel.gojkovic@brand.lth.se

Doctoral students and dissertation topics

Marcus Abrahamsson	222 0895	marcus.abrahamsson@brand.lth.se Multi Criteria Decision Making methods, with applications in land use planning. Risk- and Vulnerability Analysis methodology.
Ulf Göransson	222 3808	ulf.goransson@brand.lth.se Pyrolysis modelling of wood and plastics. Analysis of cone calorimeter results. Surface temperature measurements.
Jörgen Carlsson	222 7367	jorgen.carlsson@brand.lth.se CFD modelling (mostly RANS) of heat transfer to solid objects during fire with the purpose of performing detailed flame spread calculations for arbitrarily end scenarios.
Henrik Johansson	222 4850	henrik.johansson@brand.lth.se Decision analysis concerned with investments in fire safety. The research area includes evaluation of how much it is reasonable for a decision maker to pay for a specific fire safety system.
Daniel Nilsson	222 3126	daniel.nilsson@brand.lth.se Evacuation alarms and human behaviour in fires. The research includes quantification of the decision and reaction times when different types of evacuation alarms are used.

Jerry Nilsson 222 4583 jerry.nilsson@brand.lth.se
Municipal risk and vulnerability analysis.

Anne Dederichs 222 3126 anne.dederichs@brand.lth.se
A flamelet approach to soot formation modelling.

Doctoral students employed outside Lund University

Fredrik Nystedt
Omar Harrami
Martin Kylefors
Johan Wikman

Bjarne Husted 222 3703 bjarne.husted@brand.lth.se
Performance of water mist extinguishing systems. The research includes
experimental work and the development of a CFD-model, which can predict the
performance of water mist systems.

Per Walmerdal

Technical and administrative personell

Sven-Ingvar Granemark, engineer	222 7373	sven-ingvar.granemark@brand.lth.se
Margareta Rosén, librarian	222 7361	margareta.rosen@brand.lth.se
Agneta Wennersten, librarian	222 9593	agneta.wennersten@brand.lth.se
Ann Bruhn, secretary	222 7360	ann.bruhn@brand.lth.se

Scientific output

Number of new doctors (Ph.D)

Licentiatees are counted as ½, new Dr. with licentiate also as ½.

	93-97	1998	1999	2000	2001	2002
Fire Safety Engineering	3½	1	2	½		2

Number of international journal publications

	93-97	1998	1999	2000	2001	2002
Fire Safety Engineering		2	5	5	0	2

Number of contributions in international conference proceedings

	93-97	1998	1999	2000	2001	2002
Fire Safety Engineering		5	8	11	6	6

Number of Nordic or Swedish journal publications

	93-97	1998	1999	2000	2001	2002
Fire Safety Engineering		4	6	8	2	4

Number of Nordic or Swedish Conference contributions

	93-97	1998	1999	2000	2001	2002
Fire Safety Engineering		1	7	3	6	5

Number of reports

	93-97	1998	1999	2000	2001	2002
Fire Safety Engineering (Masters Thesis)		5 (10)	13 (29)	10 (16)	6 (14)	4 (23)

Annual department budget

	Basic education	University research	External research grants	External education	Industry
Fire Safety Engineering	8 556	2 193	4 174	2 263	

External research grants

Average annual contributions in million SEK.

	VR	Formas	Sector Bransch	Inova	EU	SIDA	Mistra	Foreign contrib	Industr invest
Fire Safety Engineering			6 437						

The Swedish Rescue Services Agency (SRV), The Swedish Fire Research Board (BRANDFORSK) The Development Fund of the Swedish Construction Industry (SBUF), Defence Material Administration (FMV), Swedish Institute for Wood Technology Research (TRÅTEK), Nordic Wood

Contacts and contracts with companies and the society in general.

PhD Candidates employed by industry

Haukur Ingasson, SP Swedish National Testing and Research Institute
Johan Wikman, Tekn Lic, Mariterm Consulting
Stefan Svensson, Tekn Dr The Swedish Rescue Services Agency
Martin Kylefors, The Swedish Rescue Services Agency
Omar Harrami, The Swedish Rescue Services Agency

Board membership

- The Fire safety Advisory Board, for the National Board of Housing Building and Planning.
- The Educational Board, for the Swedish Rescue Services Agency.
- The Swedish Rescue Services Agency, co-operation groups.
- The national Co-ordination Group of the Swedish Rescue Services Agency
- The scientific board of the Swedish Risk Collegiate
- The Society of Fire Protection Engineers (Swedish chapter)

Expert tasks for industry and society (not complete)

Research project forming the basis for the UK Draft for Development DD240 part 2 1997 "Fire Safety Engineering in Buildings. Commentary on the equations given in part 1", published by BSI (British Standards Institute).

Chairman of the group evaluating the Danish Fire Technical Institute on behalf of the National Danish Department of Industry. One evaluation was done in 1996, a second in 1999.

Project from Nordic Industrial Fund with the objective of developing a joint, co-operative Nordic risk research program.

Member of the Swedish Standardisation Committee, Fire Safety.

Fire Safety Adviser for the National Board of Housing, Building and Planning.

Expert on evacuation issues for the construction of the tunnels under Drogden in the Öresund Link Project and the tunnels of the Railway Arlandabanan in Sweden.

Arson investigation 960419 in an apartment Kämnärsvägen i Lund

Expert and discussion partner for the fire brigades in Stockholm, Gothenburg and Malmö concerning command and control of fire and rescue operations.

Acting as expert in developing within a 3 year project run by OECD "Safety Performance Indicators" for the Industry part.

Close co-operation with the Association for the Swedish Chemical Industries (Kemikontoret) with e.g. writing and up-dating of publications within the safety/health/environment field.

Expert tasks concerning polymer materials for Lund Fire Brigade.

Expert on computer programme for consequence analysis of chemical hazards for the National Rescue Services Board.

Swedish Maritime Administration. Extinguishing media for engine and cargo rooms.

Swedish Defence Material Administration. Evaluation of extinguishing media and fire risks associated with aeroplanes (Draken, Viggen, JAS-Gripen), military vehicles, ships and control rooms. In all about 10 projects.

The Swedish Rescue Services Agency. Evaluation of fire fighting systems and computation programs, in all about 5 projects.

Bejaro Halon replacement agents, product development.

Safe Road Soot Filters for fire gases, product development

Veritas Sprinkler bulb activation

SBUF Incl. SKANSKA and NCC, Flame spread (three-year programme)

Swedish Board of Accident Investigation. Expert- Gothenburg disco fire 1998.

The Norwegian accident invest. Committee. Expert- Train accident combined with a Gasol fire at Lilleström Station 1999.

SBF. Fire investigations, ignition, flame spread, in all about 5 projects.

Insurance companies/ lawyers/courts. Arson fires, ignition, flame spread, in all about 5 projects

Expert investigation for an insulation manufacturer: Temperatures in the post flashover decay phase in Office and Health Care Premises.

Expert investigation for an insulation manufacturer: Post Flashover Fire Temperatures in Office and Health Care Premises.

Member of the scientific advisory board for the company Brandskyddslaget AB.

PhDs, Licentiates and other personnel from the department employed in industry

Petra Andersson, Tekn Dr, SP Swedish National Testing and Research Institute.

Haukur Ingasson, Tekn Dr, SP Swedish National Testing and Research Institute.

Johan Wikman, Tekn Lic, Mariterm Consulting.

Employed in public services and governmental agencies

Lars Bengtsson, Tekn Lic, Helsingborg Fire Brigade.

Stefan Svensson, Tekn Lic, The Swedish Rescue Services Agency.

Stefan Särdaqvist, Tekn Dr, The Swedish Rescue Services Agency.

Yan Zenghua, Tekn Dr, Håkan Frantzich, Tekn Dr, Johan Lundin, Tekn Lic, Lund University.

Societies

The department initiated the forming of the Swedish Chapter of the Society of Fire Protection Engineers.

Fire Safety Engineering in a Performance based code environment

The Department was responsible for the writing of the Fire Part in the new building code from 1994. This work has led to a numerous contacts with the industry. In connection to this we wrote a Handbook for Fire Safety Engineering, which is now undergoing major revisions.

This means that we are consulted in these matters a number of times a year. A few examples are given below:

Working with the Arup Fire in London establishing contacts which has led to several senior theses and work opportunity for students after graduation.

Evaluation of the effects of change of Swedish building code (2 reports):

Frantzich H., Lundin J. & Jönsson R., An evaluation of the application of the present and former building codes (in Swedish), Report 1997:9, National Board of Housing, Building and Planning, Karlskrona, 1997.

Frantzich, H., Jönsson, R., Lundin, J. & Persson, H. Förstudie inför utvärdering av Boverkets byggregler-brand, Rapport 7001, Brandteknik, Lunds Tekniska Högskola, Lund, 1997.

Expert consultancy

Seven of the employees have their own consultancy, all following the rules at the university. One of them is also in charge of the total quality control at a Norwegian Fire Safety Engineering Consultancy.

Laboratory testing and expert consultancy (only a few examples)

Testing of facades for Perstorp AB

Testing of temperature guards for ICA-kuriren

Testing of sandwich panels for Nordfarbo AB

Calculation of consequences (smoke spread, evacuation, heat transfer etc) for a number of consultants

Peer-review of consultant projects.

Scientific publications/production

Books

Karlsson, B., Quintiere, J.G., "Enclosure Fire Dynamics", CRC Press LLC, 1999.

Karlsson, B., "Chapter 12: Performance-based test methods for material flammability", in "Fire Retardant Materials", ed. Horrocks, A.R., Price, D., Woodhead Publishing Limited, Cambridge, England, 2000.

Karlsson, B., "Chapter 3: The Burning Process and Enclosure Fires" in "International Plastics Flammability Handbook : Principles Regulations Testing and Approval", ed. Troitzsch, J., 3rd edition, Hanser Gardner Publ. New York, 2001.

Safety Health Environment Management Systems for Small and Medium-sized Enterprises, Anders Jacobsson, European Process Safety Centre, published by Institution of Chemical Engineers, 2000.

Publications in journals with referee system

- Journal of Fire Protection Engineers (1)
- Fire and Materials (3)
- Journal of Loss Prevention in the Process Industry.(1)
- Fire Safety Journal (3)
- Fire Science and Technology (3)
- Fire Technology (3)
- Numerical Heat Transfer (1)
- International Journal of Heat and Transfer (1)
- Combustion and Flame (1)

Publications at international conferences with referee system, and the names of the three most important conferences

- International Symposium on Fire Safety Science (IAFSS)
- International Fire Science Engineering Conference (Interflam)
- International Conference on Performance-Based Codes and Fire safety Design Methods.

Publications at international conferences without referee system, and the names of the three most important conferences

- International Conference on Fire Research and Engineering.

Invited lectures at conferences

- ESREL '97 International Conference on Safety and Reliability, Lisbon 17-20 June 1997
- IAFSS 5'th International Symposium, Melbourne 3-7 March 1997
- CHISA Congress of Chemical and Process Engineering in Prague : Integrated SHE management/auditing systems – practical guidelines. 1998.

- The Institute of Physics Combustion Physics Group and the Combustion Institute (British Section)
- Fundamentals of Buoyant Fires FRS, BRE, Gaston Watford, Herts, UK 22nd April 1998
- Chemeca 98 the 26th Australasian Chemical Engineering Conference 28-30 September 1998, Port Douglas Queensland, Australia
- 3rd International Seminar on Fire and Explosion Hazards, April 10th -14th 2000 Lake Windermere, UK
- 1st International Conference on Performance-Based Codes and Fire Safety Engineering" International Code Council and the Society of Fire Protection Engineers, USA, 1996.
- 2nd International Conference on Performance-Based Codes and Fire Safety Engineering, International Code Council and the Society of Fire Protection Engineers, USA, 1998
- Virtual HVAC Conference, Canada 2002

International participation in scientific collaboration and reviewing

Project co-operation

As a part of Combustion Centre we have recently, in 2000, got a Marie Curie Training Site financed by EU. The aim with the activities is to develop and apply modern modelling and diagnostic approaches for achieving an increased understanding of combustion phenomena. It is open for applications from Ph.D. students belonging to EU and associated countries.

Development of a CFD-code for Simulation of Fires in Enclosures in collaboration with

- VTT- Finland
- FRS- UK
- Home Office UK
- HSE laboratory UK
- Cranfield University UK
- CSTB- France

- Great Lake US, UK Extinguishing media
- Risø-Laboratory Denmark
- VTT Finland
- South Bank University, London UK
- Worcester Polytechnic Institute, USA
- Building Research Institute, Tsukuba, Japan
- FRS, England
- Home Office, England
- Co-operation with Risø (Denmark), VTT (Finland) and SINTEF (Norway) on the development of a joint Nordic Risk Research Programme
- Co-operation with BSI (British Standards Institution) on the development of a draft guide document on fire safety engineering
- EU-project, TOXFIRE, co-operation with Great Britain, Finland, Denmark
- Victoria University, Australia (human behaviour)

Participation in international programme committees

- Member of the scientific committee of the Working Party for Loss Prevention of the European Federation of Chemical Engineering
- Member of the program committee 2nd and 3rd Symposium on Human Behaviour in Fires
- IAFSS publications committee
- Program subcommittee for the 27th International Symposium on Combustion
- Program subcommittee for the 28th International Symposium on Combustion
- 2nd and 3rd International Conference on Performance-Based Codes and Fire Safety Design Methods.
- Developing and administrating a web site for the conference mentioned above.
- 4th, 5th, 6th and 7th IAFSS Fire Safety Science International Symposia
- 5th Asia-Oceania Symposium on Fire Science and Technology, Newcastle Dec 2001

Number of referee tasks at conferences and for journals

80

Number of session chairmanships at conferences

18

Member of editorial boards

- Fire Safety Journal
- Journal of Fire Protection Engineering
- Fire and Materials
- Fire Technology

Visiting researcher in foreign country by departmental staff

Visiting Associate Professor at University of Maryland, USA and Victoria University, Australia, University of Newcastle, Australia.

Visiting guest researcher

- Kazunori Harada, Building Research Institute, Tsukuba, Japan
- Gunnar Kristjansson, Islands Universitet, Island
- Greg North, University of Canterbury, New Zealand
- John De Ris, Factory Mutual, USA
- Vito Babrauskas, Fire Science and technology, USA
- Hiroki Ishida, Nagaoka University, Japan
- Wendy Saunders, Victoria University, Australia

Delegate or board member of the following organisations

- Chairman of the IAFSS Education Subcommittee
- Member of the board of IAFSS
- International Organisation for Standardisation (ISO)
- European Committee for Standardisation (CEN)
- Comité Euro-International du Béton (CEB)
- Fédération International du Béton (fib)
- Conseil International du Bâtiment pour la Recherche, l'Etude et la Documentation (CIB W14)
- Swedish delegate in ISO TC92/SC4 "Fire safety engineering"
- Participating in Nordic working-group:
- Nordiska Kommittén for byggbestämmelser, NKB, Brandutskottet.
- The Society of Fire Protection Engineers.

Participating in the workgroup administrating the evaluation of:

Fire Safety Engineering in Buildings; Draft for development. BSI DD240, British Standard Institute (BSI). 1996.

Academic review tasks

Participation in national research programme groups

The Swedish Board for Fire Research (BRANDFORSK) Evaluation of all project applications since 1996, in all more than 100.

Actor in the Swedish Rescue Services research programme concerning fire and rescue operations.

Tasks as evaluator and assessor for academic promotion

1) National

- Professorship at Royal Institute of Technology in Safety Analysis
- Lectureship in Industrial Risk Management at the same university

2) International

Evaluator for chairs, personal advancement, promotion etc at the following universities

- Berkeley (USA)
- Victoria (Australia)
- Edinburgh (UK)
- Maryland (USA)
- Worcester (USA)

Tasks as opponent, external evaluator etc, outside the faculty.

- Acting as an external examiner of a Doctoral Thesis at Victoria University of Technology 2000.
- Censor at the Danish Technical University.

Academic leadership and administration

- Positions as Chairman, Director of Studies and members of the educational board for the Fire Protection Engineering programme.
- Positions as Director, Director of Studies and members of the educational board for the Risk Management and Safety Engineering programme.
- Member of the Library Board.
- Department chairman and vice chairman.
- Chairman of the building committee, V-huset.
- Member of “Levande pedagogers sällskap”.
- Director of LUCRAM, Lund University Centre for Risk Analysis and Management.

- Chairman of the Group for Evaluation of the MSc Programmes in Civil Engineering and Environmental Engineering in Sweden and Finland, 1995-98. Report: Utvärdering av civil- och diplomingenjörsutbildningarna i samhällsbyggnadsteknik och väg- och vattenbyggnad i Sverige och Finland (in Swedish, with a comprehensive English summary), Luleå 1998, 250 p.
- Member of the research committee for building and mechanical technology.
- Member of the board of Combustion Centre at LTH.
- Deputy member of the board of the centre for technical and scientific computation, LUNARC.
- Dean of study for the national Centre of Combustion Science and Technology CECOST founded by the Swedish Foundation for Strategic Research.

Evaluation of Research activities

Parts of our research activities have been evaluated through the evaluation of CECOST (Combustion Science and Technology Program), in 1999.

Contacts with the surrounding Society in General – (Tredje uppgiften)

Journals & Magazines

Articles are continuously written and published in many different types of journals and magazines, reaching different target groups. A number of examples of various journals and articles written by the faculty at the department of fire safety engineering are given below:

Sirenen

The journal is issued by the Swedish Rescue Services Agency and is focused on rescue service and the activity of the Agency.

- Frantzich, H. Riskanalytisk metod för vårdavdelningar Sirenen aug 2000

Räddningsledaren

The journal is published by an interest group formed by fire service commanders and executives in the fire service.

- Abrahamsson, M. Gojkovic, D. Datorprogram för brandförlopps och utrymningsberäkningar – en översikt, Räddningsledaren Nr 3 1999
- Lundin, J. IT och internet – ett måste i framtidens räddningstjänst! Räddningsledaren, Nr 4, 1997.
- Olsson, F. Ger dagens regler säkra sjukhus, Räddningsledaren, Nr 1, 1999.

BI-lagan

The journal is issued by students on the fire protection engineering programme and is focused on topics relevant for fire protection engineers. The journal is distributed to fire protection engineers educated at Lund Institute of Technology.

- Bengtsson, L-G. & Lundin, J., Små droppar inte alltid effektivast, BI-lagan, Nr 1, s. 14, Lund, 1996
- Frantzich, H. & Lundin, J. Begrepp inom ramen för funktionsbaserad dimensionering, BI-lagan, No.2, pp. 6 - 10, 2002.
- Frantzich, H. Simulering av utrymning med SIMULEX. BI-lagan Nr 2 1996.
- Gojkovic, D. "Backdraft och Underventilerad Brand". Bi-lagan Nr 1 2000.
- Jönsson, R., Frantzich, H. & Lundin, J. Beräkning av risk, BI-lagan, Nr.2, pp. 30-31, 1997.
- Lundin, J. Civilingenjörsutbildning i riskhantering 100+80p, BI-lagan, Nr. 1, 2000.
- Lundin, J. Br@ndtekniska resurser på internet! BI-lagan, Nr. 2, p.22, 1998.
- Pettersson, O. Högskoleutbildning av brandingenjörer 10 år – hur kom den till? BI-lagan, Nr 2, 1996.
- Pettersson, O. Utbildningens kvalitet- ett dynamiskt begrepp. BI-lagan Nr 1, 1998.
- Särdaqvist, S. Lek ej med elden, BI-lagan, 1, 1998
- Särdaqvist, S. Ingenjörsmässig dimensionering av räddningsinsatser, BI-lagan, 2, 1996
- Karlsson, B. "Indexmetod för värdering av brandrisker i flervånings bostadshus", BI-lagan, Nr 2, 2000.
- Holmstedt, G. "Simulation of fires using CFD"
- Bengtsson, L-G., "Övertändning, backdraft, Brandgasexplosion – Vad är skillnaden?", BI-lagan, Nr 1, s 24, 1998.

- Bengtsson, L-G., Karlsson, B., ” Övertändning, backdraft, mager övertändning, övertändning, spreadover, rollover, brandgasexplosion?”, Bi-lagan, Nr 1, s 36, 1997.
- Zenghua, Y., “Recent Development in Numerical Modeling of Turbulent Combustion AND Flame Spread”, BI-Lagan Nr. 1, 1999.

Bygg & Teknik

The journal is published by interest group for the building industry.

- Carlsson, J. & Göransson U. Kan man använda trä som ytskikt i samlinglokaler? Bygg & Teknik 6/02
- Frantzich, H. & Särdaqvist, S. Bo på vårdhem - en klassfråga. Bygg & Teknik 6/96.
- Frantzich, H. Brandteknisk dimensionering baserad på beräkning. Bygg & Teknik 6/97.
- Frantzich, H. Riskanalysmetod för vårdavdelningar. Bygg&Teknik 6, 2000.
- Lundin, J. Kvalitetsbrister i verifiering, kontroll och dokumentation leder till brister i byggnaders brandskydd. Bygg & Teknik, nr 6, 2001.
- Nystedt F. & Lundin, J. Kostnadseffektiv utformning av brandskydd, Bygg & Teknik, 6, 2000.

Karlsson, B. Indexmetod för värdering av brandrisker i flervånings bostadshus, Bygg& Teknik, 6,1999.

Brand & Räddning

The journal is published by interest group for the rescue services .

- Lundin, J. & Frantzich, H. Verifiering, dokumentation och kontroll – förutsättningar för säker dimensionering av byggnadstekniskt brandskydd! Brand & Räddning, Nr 3-4, 2002.
- Olsson, F. & Lundin, J. ”Dyrare” brandskydd vid byggnation kan ge lägre totalkostnad, Brand och Räddning, Nr 2, 2000.
- Olsson, F. Nya dimensioneringsmetoder ger säkrare byggnader, Brand & Räddning, nr 2, 1999.

Various other journal articles

- Frantzich, H. Högre brandsäkerhet med riskanalyser. Fastighetsnytt 5:1997.
- Jönsson, R. & Lundin, J. Ny civilingenjörsutbildning i riskhantering vid LTH. Väg och Vattenbyggaren, nr 6, 2000.
- Lundin, J. Nya riktlinjer behövs för verifiering och kontroll av byggnadstekniskt brandskydd! Husbyggaren, nr 2, april 2002 (Building Industry Magazine)
- Lundin, J. Allvarliga kvalitetsbrister i kontroll av brandskyddsprojektering, Föreningen Sveriges Byggnadsinspektörer, kontaktblad 2, 2001. (Building Surveyor Magazine)
- Särdaqvist, S. Kemikunskap förebygger olyckor, Kemisk Tidskrift /Kemivärlden, 9, 1997
- Särdaqvist, S. Brinner din scoutskjorta, Scouting, Roverscout- och ledartidskrift för KFUK-KFUMs scoutförbund, 4 1999
- Särdaqvist, S. Forskning i Fokus, Inst Brandteknik, LTH, Lunds Universitet, Fastighetsnytt, 3 1997

Presentations at seminars

Faculty members at the department are often invited to seminars to present research results and the state of the art knowledge in various topics related to fire safety engineering. The

seminars are organised by several different interest groups and have many different target groups. Activities are done on a national, regional and local level.

Example of organisations who are regularly organising such seminars are:

- National Board of Housing, Building and Planning (Boverket)
- Swedish Rescue Services Agency (SRV)
- The Swedish Agency for Civil Emergency Planning (ÖCB)
- The Swedish Board of Fire Research (Brandforsk)
- The Swedish Fire Protection Association (SBF)

Several consultant firms and rescue services request presentations as a part of their internal competence development.

Presentations are made for regional interest groups:

- Gojkovic, D. Föredrag för Skånsk brandskydds dags årsmöte 1999
- Lundin, J. Brandteknisk projektering – verifiering och kontroll, Presented at the 100 000 Club seminar in Uppsala, 9th of October 2002.
- Lundin, J. Hur skall man dimensionera brandskyddet säkert?, Presented at the 15 years jubileum Conference in Lund, 9 of November 2001.
- Lundin, J. Fire Demand Model, Presentation at conference in Lund for fire protection engineers, spring 1996.
- Lundin, J. The Swedish Case Study, presented at local SFPE meeting Lund oktober 1998
- Lundin, J. Internet – Möjligheternas kaos, Presentation at conference in Lund for fire protection engineers, spring 1996.
- Olsson, F. Brandskydd i sjukhus, föredrag vid 7-SÄK:s – svensk förening för sjukvårdsäkerhet – seminarium i Skövde, 10 februari 1999
- Särdaqvist, S. "Eld och lågor", 2 föredrag vid Teknikens dag, LTH 1997.

Lectures given at the rescue services school:

- Lundin, J., Datormodeller – brandteknisk dimensionering, Förebyggande 1 kurs, Revinge, 1996.
- Särdaqvist, S. släckmedelsföreläsning, Brandmästarkurs, Revinge, 29/10 -99

Lectures given at other universities

- Lundin, J. & Bengtsson, L-G. Technical University of Denmark, Invited lecturer, Computer Models and Fire Safety Design, November 1996.

Presentations held at seminars organised by governmental agencies.:

- Abrahamsson, M. Osäkerheter i riskanalyser. SRV's seminarie "Kvalitetskrav på riskanalyser", Karlstad 23/9 1999.
- Frantzich H. Brandskyddsvärdering av vårdanläggningar. SRV Förebyggandekonferens 25-26 april 2001, Karlstad.
- Frantzich H. Brand i spårtunnlar - utrymning. SRV konferens Planera för tunnelsäkerhet, okt 2002, Rosersberg.
- Olsson, F., Bättre brandskydd med riskbaserad dimensionering, föredrag vid konferensen "Risker med funktionskrav" på Boverkets Plan- och Byggdagar, 15 september 1999, Karlskrona

The Swedish Board of Fire Research

- Frantzich H. Analytisk dimensionering - Hur bra är det i praktiken? Brandforsk informationsdag om forskning för industrin, 8 nov 2001, Borås.
- Lundin, J. Risk analysis as a design tool Presentation held at The Swedish Board of Fire Research seminar for the industry, november 2000.
- Lundin, J. Advanced fire safety design tools – are they needed? Presentation held at The Swedish Board of Fire Research seminar for the industry, november 1997
- Särndqvist, S. Räddningstaktik och dimensionering av släckresurser, Brandforsks informationsdag, “Forskning för räddningstjänsten”, 99-03-16 i Stockholm, 99-03-18 i Göteborg

Presentations at other seminars

- Frantzich H. Verktyg för värdering av brandsäkerhet. Föredrag vid branschvis träff för Tjänstesektorn - vården nov 2002, Lund.
- Lundin, J. Education and Research in Risk Management at Lund University, presented at a Risk Management seminar in Lund in November 2002.
- Lundin, J. Recent Projects and Developments – High Rise Case Study at the Consortium of European Building Control (CEBC) meeting in Paris 1 and 2 October 2001.
- Olsson, F., Sjukhussäkerhet, föredrag vid en konferens om sjukhussäkerhet på mässan Säkerhet 99, 9 september 1999, Göteborg
- Olsson, F., Riskanalysverktyg – sjukhus, föredrag vid branschvis träff för offentlig sektor, Industrins brandskyddsforum, 18 november 1999, Gävle

Poster presentations

- Jönsson, R. & Lundin, J. The Risk Management Programme, The International Conference of Loss Prevention & Safety Promotion in Stockholm, 19-21 July 2001.
- Lundin, J. The Risk Management Programme, ÖCB – LUCRAM seminar in Lund, 31 of January 2001

Arranging seminars

Several seminars and conferences have been arranged.

- Risk Management in the Future. A seminar with 150 participants where the Risk Management activities (education and research) at the Department of Fire Safety Engineering were presented. Lund, 2002.
- SFPE Symposium in Lund 2000.
- Conference for Fire Protection Engineers with the purpose to inform about research results, Lund 1996
- Organizer of two seminars (1999 and 2001) about research for civil emergency planning in co-operation with ÖCB (Swedish Agency for Civil Emergency Planning)
- Organizer of seminars for research students and others with connections to the project SUNDRIK

TV, Radio & Press

The work of the department have been covered by TV & Radio at several occasions.

- Participated in “Hjärnkontoret” an informative production for the Swedish television. This is a production where science and technical phenomena are presented and explained to children from the age of seven.
- Radio interview regarding human behavior during fires. Dec 1998.

Web-site

It is the policy of the department to be active both in research activities and the process of making the results available for other researchers, engineering who apply the results and other interested parties in society. Since 1996 all research results are published on the web site, www.brand.lth.se/english/ and reports can be downloaded as PDF documents with no cost. Several mailing lists are managed. Information about the activity of the department is constantly sent out to different interest groups.

Other activities

During 1999 and 2000 the largest Fire Services in Skåne together with Copenhagen Fire Service developed guidelines for fire safety design of buildings based on calculations. The objectives with the guidelines were twofold. The first objective was to establish the role of the fire service in the building process. The second objective was to agree on how to form acceptance criteria when performance-based design is carried out. The guidelines are both targeted for the building surveyors and the consultants designing the buildings. During 2001 the guidelines will be adopted and implemented in Malmö City. The department were involved to set up the framework for the guidelines and to give presentations about important issues concerning fire safety design based on calculations. The following presentations were made at the start-up seminar:

- Lundin, J. Uncertainty in fire safety design Danmark juni 1999, presentation in Copenhagen, 23 juni 1999
- Olsson, F., En Øresundsregion, ensartade acceptkriterier?, föredrag i Köpenhamn om användandet av acceptanskriterier vid brandteknisk dimensionering och riskanalyser, 23 juni 1999

Part of the organizer committee of a Nordic Workshop (1999, Lund), "The increasing role of risk analysis of technological systems in decision-making"

Actor in a project (performed by the Swedish Rescue Services Agency) in order to implement research results into practice concerning command and control.

Member of the Board of Directors for the Swedish Chapter of the Society of Fire Protection Engineers.

Project leader of a Network project founded by "Sparbanksstiftelsen Skåne"

Honors

Best paper award. Presented at the 3rd international seminar on Fire and Explosion Hazards. 2000

The Polhem Prize, 1983

Lund University Medal, 1988

Lunds Universitets pedagogiska pris, 1989

Forum Cerberus Safety Award, 1989

The J. Gust. Richerts Prize, 1990

The Howard Emmons Lectureship Award for Outstanding Contributions to Fire Safety Science, handed over at the Fourth IAFSS International Symposium on Fire Safety Science, held in Ottawa, Canada 1994. Simultaneously, the Department of Fire Safety Engineering, LTH, received the Forum Prize for its qualified contributions to university education in fire safety engineering for almost 30 years.

Swedish Concrete Association, Gold Medal, 1994.

Royal Swedish Academy of Engineering Sciences, Gold Medal, 2000.

A Master's thesis supervised by a faculty member has been Awarded The Best Master's Thesis 2002 by Bo Rydins Stiftelse för vetenskaplig forskning.

Other relevant information

The department has been instrumental and a major force in the planning and creation of LUCRAM, Lund University Center for Risk Analysis and Management and is also a major participant in the activities of CECOST, The Centre for Combustion Science and Technology. Below follows a short summary of LUCRAM and some of its activities.

LUCRAM

LUCRAM was founded in 1998 with the following objectives

- to contribute to the development of long-term competence for risk education and research at Lund University
- to be a contact forum in the risk research area between educational institutions, research institutions, authorities, organisations and the public. Organize seminar, workshops and similar activities
- plan, organize and implement co-operative research projects
- actively engage in networking activities with modern information technology as a base

Some major activities

- A cross-faculty project on "Maritime risks in the Oresound area", involving personnel from three faculties and five departments. Project leader is prof Everth Larsson, Dept of Technical Logistics.
- Projects on the planning and creation of co-operative risk research programmes at the Nordic and national level. At the moment, LUCRAM is actively engaged in discussion with Stockholm University, Royal Institute of Technology, Stockholm and Karolinska Institut on the creation of a national center for risk analysis.
- Survey and pilotprojects in the areas of decision theory and analysis, safety culture, safety and rapid organizational changes, performance indicators and safety management with the objective of organizing national research programmes in respective areas.
- Projects in the area of regional, integrated risk management, management of municipal vulnerability.
- A networking activity among national researchers in the area of decision-making in emergency situations.
- Two Ph.D. courses, 10 credits each, in "Risk Analysis and Management" and "Problems in decision-making in the management of societal risk and vulnerability".
- Extensive collaboration with the Swedish Rescue Services Agency (SRV) and the Swedish Agency for Civil Emergency Planning (ÖCB), involving support for projects, participation in seminars and workshops, organization of workshops, membership of working groups, etc.
- Extensive contacts across the risk and vulnerability management sector of national society.

Dissertations

Simulation of Combustion and Fire-Induced Flows in Enclosures

Tuovinen Heimo

Report CODEN: SE - LUTVDG/TVBB—1010, doktorsavhandling 1995

En modell för dimensionering av förbindelser för utrymning utifrån funktionsbaserade krav

Frantzich Håkan

Report CODEN: ISRN LUTVDG/TVBB--1011—SE licentiatavhandling 1994

En modell för dimensionering av förbindelser för utrymning utifrån funktionsbaserade krav - A model for performance-based design of escape routes, eng version

Frantzich Håkan

Report CODEN ISRN LUTVDG/TVBB--1011—SE, licentiatavhandling 1994

Ship Fire Safety Engineering

Wikman Johan

Report CODEN: SE - LUTVDG/TVBB—1012, licentiatavhandling 1995

Experimental and Theoretical Study of Rack Storage Fires

Ingason Haukur

Report CODEN: SE - LUTVDG/ TVBB- 1013 doktorsavhandling 1996

An Engineering Approach to Fire-Fighting Tactics

Särdqvist Stefan

Report CODEN: ISRN LUTVDG/TVBB--1014-SE licentiatavhandling 1996

Evaluation and Mitigation of Industrial Fire Hazards

Andersson Petra

Report LUTVDG/(TVBB-1015) doktorsavhandling 1997

Uncertainty and Risk Analysis in Fire Safety Engineering

Frantzich Håkan

Report CODEN: LUTVDG/TVBB-1016-SE doktorsavhandling 1998

Solving Tactical Problems Using Control Engineering: Systems Identification and Modeling

Svensson, Stefan

Report ISRN LUTVDG/TVBB--1017--SE – licentiatavhandling 1998

Numerical Modeling of Turbulent Combustion and Flame Spread

Yan Zhenghua

Report ISRN LUTVDG/TVBB--1018--SE, doktorsavhandling 1999

Övertändning, backdraft och brandgasexplosion sett ur räddningstjänstens perspektiv

Bengtsson Lars-Göran

Report CODEN: ISRN LUTVDG/TVBB--1019--SE, licentiatavhandling 1999

Model Uncertainty in Fire Safety Engineering

Lundin Johan

Report CODEN: LUTVDG/TVBB--1020--SE, licentiatavhandling, 1999

Demand for Extinguishing Media in Manual Fire Fighting

Särdqvist Stefan

Report ISRN: LUTVDG/TVBB—1021—SE, doktorsavhandling, 2000

Decision Making in Fire Risk Management

Johansson Henrik

Report ISRN: LUTVDG/TVBB—1022—SE, 2001, licentiatavhandling

Cost-Benefit Analysis of Separation Distances – a utility-based approach to risk management decision-making

Kylefors Martin

Report ISRN:CODEN LUTVDG/TVBB—1023—SE, 2001, licentiatavhandling

Uncertainty in Quantitative Risk Analysis – Characterisation and Methods of Treatment

Marcus Abrahamsson

Report ISRN: LUTVDG/TVBB—1024--SE, 2002, Licentiatavhandling

The Operational Problem of Fire Control

Stefan Svensson

Report ISRN: LUTVDG/TVBB—1025—SE, 2002, Doktorsavhandling

Computational strategies in flame-spread modelling involving wooden surfaces. An evaluation study

Jörgen Carlsson

Report ISRN: LUTVDG/TVBB—1028—SE, 2003, Licentiatavhandling

Reports

Utrymningsvägars fysiska kapacitet. Sammanställning och utvärdering av kunskapsläget
Frantzich H

3069 CODEN: LUTVDG/TVBB--3069—SE, 1994

Initial Fires - RHR, Smoke Production and CO Generation from Single Items and Room Fire Tests
Särdqvist S

3070 REPORT CODEN: SE - LUTVDG/TVBB-3070, 1993

Varseblivningstid och reaktionstid vid utrymning. Sammanställning av enkätundersökning gällande
för varuhus, restaurang och danslokal

Frantzich H

3071 ISRN CODEN: LUTVDG/TVBB-3071 1993

Utvärdering av halonersättningsmedlen Halotron II och FM-200

Adolfsson M, Schelander M

**3072 Rapport CODEN: ISRN LUTVDG/TVBB-- 3072—SE 1993
1993**

Naturgas Säkerhetsnivå Riskanalys

Andersson B, Andersson P, Holmstedt G, Särdqvist S

3073 CODEN: LUTVDG/TVBB-3073 1994

Combustion of Chemical Substances and the Impact on the Environment of the Fire Products - 1/3
Scale Room Furnace Experiments

Andersson B, Davie F, Holmstedt G, Kenéz A, Särdqvist S

3074 CODEN: ISRN LUTVDG/TVBB-3074-SE, 1994

Dimensionering utifrån funktionsbaserade regler

Karlsson B, Magnusson S E, Frantzich H

3075 Rapport CODEN: SE - LUTVDG/TVBB 3075 1996

Some Comments on Fire Spread in High Racked Storage of Goods

Thomas P H

3076 CODEN: SE - LUTVDG/TVBB—3076 1995

Flame Sizes in a Small Scale Stack: Pilot Experiments

Karlsson B, Thomas P H, Holmstedt G

3077 CODEN: SE-LUTVDG/TVBB—3077 1995

Fire Safety Design Based on Calculations - Uncertainty Analysis and Safety Verification

Magnusson S E, Frantzich H, Harada K

3078 Rapport CODEN: SE - LUTVDG/TVBB 3078 1995

Study of Movement on Stairs during Evacuation using Video Analysing Techniques

Frantzich H

3079 Report CODEN: SE - LUTVDG/TVBB 3079 1996

Small Scale Experiments and Theoretical Aspects of Flame Extinguishment with Water Mist

Andersson P, Arvidson M, Holmstedt G

3080 CODEN: SE - LUTVDG/TVBB—3080 1996

Minutes from EUSAS-BRANDFORSK WORKSHOP on Smoke Detection, September 26-27, 1994

3081 Report CODEN: ISRN- SE - LUTVDG/TVBB 3081 1994

Fire Alarm in a Public Building: How do People Evaluate Information and Choose Evacuation Exit?
Benthorn L Frantzich H

3082 Report CODEN: SE - LUTDVG/TVBB-3082, 1996

The Swedish Case Study - Fire Safety Design for a Multitenant Business Occupancy

Marberg P A, Frantzich H, Jönsson R, Lundin J, Rantatalo T

3083 CODEN: SE - LUTDVG/TVBB 3083 1996

Manual till datorprogrammet GASOL

Andersson B, Andersson P

3084 Report CODEN: SE - LUTDVG/TVBB 3084 1996

Fire Safety Risk Analysis of a Health Care Facility

Frantzich H

3085 CODEN: SE - LUTVDG/TVBB—3085—SE 1996

Uncertainty in Smoke Transport Models

Lundin J

3086 Report CODEN: ISRN CODEN LUTVDG/TVBB--3086—SE 1997

Simulated Fires in Substances of Pesticide Type

Andersson B, Babrauskas V, Holmstedt G, Särdaqvist S, Winter G

3087, Report ISRN:LUTVDG/TVBB--3087—SE 1999

Evaluation of a Fire Risk Index Method for Multi-storey Apartment Buildings

Hultquist H, Karlsson B

3088 Report LUTVDG/TVBB—3088—SE 2000

Fullskaliga släckförsök med olika vattendimsystem i Container 50 m³ i Karlskrona 26/8-29/8 1996

Andersson P, Holmstedt G

3089 Rapport CODEN: SE - LUTVDG/TVBB—3089 1996

Numerical Prediction of Heat Flux from Flame in Room Fire

Yan Z, Holmstedt G

3090 ISRN: CODEN LUTVDG/TVBB—3090—SE 1997

Fire Safety Risk Analysis of a Hotel; How to Consider Parameter Uncertainty

Frantzich H

3091 Report CODEN ISRN LUTVDG/TVBB-3091-SE, 1997

Vertical Flame Spread: Some Notes on Dimensional Analysis and Differential Equations

Thomas P H

3092 Report CODEN LUTVG/TVBB--3092—SE 1997

Slutredovisning från projekten "Brandteknisk dimensionering baserad på beräkning" (SBUF) och "Funktionsbaserad brandteknisk dimensionering" (Brandforsk)

Magnusson S E, Frantzich H, Lundin J

3093 Report CODEN: LUTVDG/TVBB--3093—SE 1997

Dimensional Analysis: A Magic Art in Fire Research?

Thomas P H,

3094 Report ISRN LUTVDG/TVBB--3094—SE 1997

Djupanalys av tre storbränder
Särdqvist S

3096 Report CODEN: ISRN LUTVDG/TVBB--3096—SE 1998

Tillämpning av Boverkets byggregler – Brand –en utvärdering
Jönsson Robert, Frantzich Håkan, Lundin Johan

Report ISRN: LUTVDG/TVBB—3095—SE 1997

Pilotstudie av Kostnad-Nytta av Industrins Brandskyddsåtgärder
Mattsson M, Magnusson S-E

3097 Report LUTVDG/TVBB--3097—SE 1997

Kostnad-Nytta av industrins brandskyddsåtgärder - en pilotstudie av beslutsanalysens faktiska förutsättningar

Mattsson Magnus

3098 Report CODEN: ISRN LUTVDG/TVBB--3098—SE 1997

The Swedish Case Study - Different Fire Safety Design Methods Applied on a High Rise Building
Jönsson R, Lundin J

3099 ISRN LUTVDG/TVBB--3099--SE. Presented at the Second International Conference on Performance-Based Codes and Fire Safety Design Methods, Maui, USA, 5-9 May 1998

Brandfrekvenser och typbränder i industrianläggningar
Johansson H,

3100 Rapport ISRN LUTVDG/TVBB--3100—SE, 1998

Tolerable Fire Risk Criteria for Hospitals

Olsson F

3101 ISRN: LUTVDG/TVBB--3101—SE, 1999

Ekonomisk riskanalys av ABB Automation Products verksamhet i byggnad 358

Johansson H

3102 Report 3102 ISRN:LUTVDG/TVBB--3102—SE 1999

Ekonomisk riskanalys av Avesta Sheffield's kallvalsverk i Nyby

Johansson H

3103 Report 3103 ISRN: LUTVDG/TVBB--3103—SE 1999

Sammanfattning av fas 1 i projektet " Ekonomisk optimering av det industriella brandskyddet"

Johansson H

3104 ISRN: LUTVDG/TVBB--3104—SE, 1999

Osäkerheter i variabler vid riskanalyser och brandteknisk dimensionering

Johansson H

3105 Report 3105 ISRN:LUTVDG/TVBB--3105—SE 1999

Manuell brandsläckning med vatten

Särdqvist S

3106 Report ISRN:LUTVDG/TVBB--3106--SE 1999

Brandteknisk dimensionering med riskbaserade ekvationer

Olsson F, Frantzich H

3107 ISRN: LUTVDG/TVBB—3107-SE, 1999

Bostadsbränder och sprinkler – En koppling till brandteknisk dimensionering
Nystedt F

3108 ISRN: LUTVDG/TVBB—3108-SE 20001

Metod för riskbaserad dimensionering genom beräkning
Becker P

3109 ISRN LUTDG/TVBB—3109—SE 2000

Kostnadseffektiv utformning av brandskydd
Lundin J, Olsson F

3110 Report ISRN: LUTVDG/TVBB—3110—SE, 2000

Emergency management as co-ordinated cognitive modelling on different time-scales
Fredholm L

3111 Report ISRN: LUTVDG/TVBB—3111—SE, 1999

Riskbaserad brandteknisk dimensionering – Slutredovisning av projektet “Dimensionering efter beräknad risk”

Frantzich Håkan, Lundin Johan

3112 Report ISRN: LUTVDG/TVBB—3112—SE, 2000

Osäkerhetshantering i riskanalyser avseende brandskydd
Johansson Henrik

3113 Report ISRN: LUTVDG/TVBB—3113—SE, 2000

Using a Delphi Panel for Developing a Fire Risk Index Method for Multistorey Apartment Buildings
Karlsson Björn, Larsson Daniel

3114 Report ISRN: LUTVDG/TVBB—3114—SE, 2000

Några system för riskanalys av en byggnads totala brandförsvar
Pettersson O

3115 Report ISRN: LUTVDG/TVBB—3115—SE, 1990

Treatment of Uncertainty in Risk Based Regulations and Standards for Risk Analysis
Abrahamsson M

3116 Report ISRN: LUTVDG/TVBB—3116—SE, 2000

Brandskyddshandboken – en handbok för projektering av brandskydd i byggnader

Bengtson, Staffan, Blomqvist J, Delin M, Fagergren T, Frantzich H, Gojkovic D, Hiort F, Isaksson S, Johansson H, Jönsson R, Lang Ildiko, Lundin J, Lundqvist M, Rantatalo T, Särdaqvist S

Report ISRN: LUTVDG/TVBB—3117—SE, 2002

Beslutsanalys och investeringskalkyler avseende brandskydd
Johansson H

Report ISRN: LUTVDG/TVBB—3118—SE, 2000

Att visa lönsamhet med brandskyddsinvesteringar – Sammanfattning av fas 2 i projektet “ Ekonomisk optimering av det industriella brandskyddet”, BRANDFORSK projekt 103-991

Johansson H

Report ISRN:LUTVDG/TVBB—3119—SE, 2000

CFD Modeling of A Large Complex Fire

Yan Zenghua

Report ISRN: LUTVDG/TVBB—3120—SE, 2000

Initial Backdraft Experiments

Gojkovic Daniel

Report ISRN: LUTVDG/TVBB—3121—SE, 2001

Verifiering, kontroll och dokumentation vid brandteknisk projektering

Lundin Johan

Report ISRN: LUTVDG/TVBB—3122—SE 2001

Numerical Simulation of Fire Exposed Facades – An initial investigation

Carlsson Jörgen, Karlsson Björn

Report ISRN: LUTVDG/TVBB—3123—SE 2001

Sammanfattning av fas 3 i projektet “Ekonomisk optimering av det industriella brandskyddet”

Johansson Henrik

Report ISRN: LUTVDG/TVBB—3125—SE, 2002

Masters Thesis

Betongpelare vid brand - Simulering av försök och dimensioneringsanvisning
Hansson Håkan

Report LUTVDG/TVBB-- 5002---SE, Examensarbete, Brandingenjörslinjen 1993

Halonersättningsmedel - Utvärdering av fysikaliska egenskaper samt förslag till parametrar för konstruktion och beräkning av släcksystem
Adolfsson M, Schelander M

Report ISRN:LUTVDG/TVBB—5003—SE, Examensarbete, Brandingenjörslinjen, 1994

Loadbearing Capacity of Fire Exposed Steel Beams Partially Embedded in Concrete - a Theoretical Analysis

Lavesson Kristian

Report ISRN LUTVDG/TVBB—5004—SE, Examensarbete, Brandingenjörslinjen, 1996

Study of Evacuation Movement through Different Building Components

Holmberg Philip

Report CODEN: ISRN LUTVDG/TVBB - 5005 - SE, Examensarbete, Brandingenjörslinjen 1997

On Probabilistic Assessment of Life Safety in Building on Fire

Kristjánsson Gunnar H

Report ISRN LUTVDG/TVBB--5006--SE Examensarbete - Brandingenjörslinjen 1996

Scenariotänkande vid brandsyn i samlingslokaler - Fire Scenarios in Assembly Halls

Abrahamsson Marcus

Report 5007 Examensarbete, Brandingenjörsprogrammet 1997

High Performance Concrete - Design Guide Lines

Thómason Bóddvar

Report ISRN LUTVDG/TVBB--5008—SE, Examensarbete, Brandingenjörsprogrammet 1998

Unannounced Evacuation of Large Retail-Stores

Sandberg Anders

Report 5009, Examensarbete, Brandingenjörslinjen 1997

Beräkningsmodeller för övertändning och förbränningsprodukter - En utvärdering

Edstam Anders, Söderström Peter

Report 5010, Examensarbete Brandingenjörsprogrammet 1998

Brandförlopp - lätta stommar. Fully developed fires in compartments with boundary light weight wall construction (mineral wool and plasterboard)

Åqvist Johan

Report ISRN LUTVDG/TVBB--5011—SE, Examensarbete, Brandingenjörsprogrammet, 1998

Brandgasspridning via ventilationssystem - Smoke Spread through Ventilation Systems Hielscher

Tobias,

Warelius Björn

Report nr 5012, Examensarbete, Brandingenjörsprogrammet, 1992

Determination of Modeling Uncertainty for Two Fire Models

Bragason F

Report 5013, Examensarbete, Brandingenjörsprogrammet 1994

Borealis Polyetenanläggning - Miljökonsekvenser vid brand i produktlager och tillsatslager. Borealis Polyethene plant - Environmental consequences of fire in storage buildings for product and additives
Abrahamsson Jonna

Report 5014 Examensarbete, Brandingenjörsprogrammet 1998

Risikanalys avseende hanteringen av eten och vinylklorid i en kemisk processindustri - Risk analysis concerning the handling of ethylene and vinyl chloride in a chemical process industry

Persson Henrik

Report 5015, Examensarbete, Brandingenjörsprogrammet, 1998

Svaveldioxidutsläpp vid stora Cell AB, Skutskär - riskanalys av transport, lossning, lagring och distribution

Bengtsson Andreas, Norlin Helena

Report 5016, Examensarbete, Brandingenjörsprogrammet 1998

Evaluation of the Fire Safety Level in High Speed Craft - Problems, Improvements and Future Developments

Eriksson Linus

Report 5017, Examensarbete, Brandingenjörsprogrammet 1998

Brandgasspridning via ventilationssystem - beräkningsmodeller samt tillämpning på elbyggnaden vid reaktor 3, Ringhals kärnkraftverk. Spread of Fire Gases via Ventilation Systems - Calculation models and an application to the electrical building of reaktor 3, Ringhals nuclear power plant

Håkansson Pia, Petersson Magnus

Report 5018, Examensarbete, Brandingenjörsprogrammet 1998

Risikanalys och utvärdering av detektion- och släcksystem - en serviceanläggning tillhörande JAS 39-GRIPEN

Becker Per, Nilsson Magnus

Report 5019 Examensarbete, Brandingenjörsprogrammet 1997

Industribrand vid Eka Chemicals i Bohus - fallstudie av primära, sekundära och tertiära konsekvenser. Industrial fire at Eka Chemicals in Bohus, Sweden - Case study of primary, secondary and tertiary consequences

Delin Mattias, Johansson Max

Report 5020, Examensarbete, Brandingenjörsprogrammet 1998

Preliminary Study on the Role of Moisture and Extractives of Ornamental Plants on the Flammability
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