

on Fire Science and Technology 9th Asia-Oceania Symposium **PROGRAM**

on Fire Science and Technology 9th Asia-Oceania Symposium

University of Science & Technology of China State Key Laboratory of Fire Science 17-20 October, 2012 Hefei, China

Program

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Outline of 9th AOSFST Schedule

18:30-20:30	16:30-18:00	14:00-16:00	09:05-12:30	08:30-09:05	October 20	18:30-21:00	15:30-17:30	16:30-18:00	15:30-16:30	15:50-16:50	13:40-15:20	08:55-12:30	08:20-08:55	October 19	19:30-20:30	13:40-17:55	10:50-12:05	10:15-10:50	09:00-09:45	08:20-09:00	October 18	18:30-20:30	14:00-18:30	October 17
Farewell dinner	Visit Huiyuan Park and/or Expo Anhui Pavilion [Optional]	Visit Anhui Museum [Optional]	Four parallel sessions for paper presentations	Four parallel sessions for invited speeches	Saturday	Welcome speech (Wanki Chow). Banquet (Gaosu Lounge)	Visit the KDLian Safety Technology Co., Ltd. (Sponsor) [Optional]	IAFSS Committee Meeting	AOAFST Committee Meeting	Poster session (Lobby of Gaosu Lounge)	Four parallel sessions for paper presentations	Four parallel sessions for paper presentations	Four parallel sessions for invited speeches	Friday	Performance of Traditional Chinese Music (Gaosu Lounge) (USTC Student Orchestra of Nationalities Music)	Four parallel sessions for paper presentations	Four parallel sessions for paper presentations	Four parallel sessions for invited speeches	Plenary speech (Gaosu Lounge)	Open ceremony (Gaosu Lounge)	Thursday	Welcome reception (Cafeteria)	Registration (Lobby of Anhui Gaosu New Century (AGNC) International Hotel)	Wednesday

Message from the Local Organizing Committee

presentations, and accepted poster presentations. 2012. The technical program consists of the Plenary lecture and a series of invited lectures held each morning, four simultaneous sessions of oral Technology of China. The venue of this symposium will be at the Anhui Gaosu New Century (AGNC) International Hotel, from October 17 to October 20, Welcome to the 9th Asia-Oceania Symposium on Fire Science and Technology, hosted by State Key Laboratory of Fire Science, University of Science and

you can say goodbye to your colleagues while enjoying a farewell dinner. and/or Expo Anhui Pavilion, by which the attendees can get to learn more about the history and culture of Anhui Province. Finally, on October 20 evening of AGNC Hotel on evening of October 18 (Thursday). Attendees are invited to enjoy this performance by USTC Student Orchestra of Nationalities Music. Gaosu Lounge of AGNC Hotel. On October 20 afternoon, there will be a local tour in Hefei. Attendees are invited to visit the Anhui Museum, Huiyuan Park October 17 (Wednesday) evening at the Cafeteria of AGNC Hotel. A special performance of Traditional Chinese Music will take place at the Gaosu Lounge Technology Co., Ltd. will be arranged on afternoon of October 19 (Friday). The Symposium Banquet on October 19 (Friday) evening will take place at the Visits to State Key Laboratory of Fire Science will be arranged on October 18 and October 19, two times every day. A visit to the KDLian Safety In addition to the technical program, the local organizing committee has put together an exciting social program. The Welcome Reception will be held on

We hope that you find the meeting intellectually rewarding and that you enjoy your visit to Hefei

Weicheng Far

Chairman of the Local Organizing Committee

9th Asia-Oceania Symposium on Fire Science and Technology

Local Organizing Committee

Prof. Weicheng Fan (Chair), Prof. Heping Zhang (co-Chair), Prof. Naian Liu (co-Chair)

Bin Yao, Assoc. Prof. Yuanzhou Li, Dr. Jiao Lei, Mr. Haobo Wang, Dr. Wenru Zeng, Dr. Jing Zhan, Mr. Jinjun Wang Assoc. Prof. JieJi, Assoc. Prof. Qingsong Wang, Dr. Ran Tu, Mrs. Jun Chen, Mrs. Pingyue Yang, Mrs. Xian Yao, Assoc. Prof. Haixiang Chen, Assoc. Prof.

General Information

Registration desk

October 17 Wednesday

14:00-18:30 Registration (Lobby of AGNC Hotel)

October 18 Thursday

8:00 Registration (AGNC Hotel, Room 715)

October 19 Friday

8:00 Registration (AGNC Hotel, Room 715)

October 20 Saturday

8:00 Registration (AGNC Hotel, Room 715)

On-site payment by credit card and cash in RMB will be possible during registration. Personal cheques will not be accepted

Name badges

Please wear your name badge at all times. Badges are required for admission to technical sessions, welcome reception, lunches, dinners, and banquet.

No smoking

Smoking is not allowed inside the session rooms and public area.

Internet access

AGNC Hotel has free wireless internet service

Coffee breaks

registered symposium delegates wearing name badge. Coffee breaks will be provided every morning and afternoon during breaks between technical sessions. Snacks, coffee, tea and water will be served to

Breakfasts

Breakfasts will be provided by the hotel

Free buffet will be served to the registered delegates with lunch tickets every day. These tickets will be distributed when registration.

Dinner

delegates with dinner tickets. Welcome reception (October 17), buffet dinner (October 18), banquet (October 19) and farewell dinner (October 20) will be served to the registered

Pickup service at airport

The symposium will provide free pickup service at airport on October 16 and October 17. The sign can be seen at the exit of airport.

Public transportation

The municipal transport service in Hefei is bus. It costs 1 RMB for normal bus or 2 RMB for air-conditional bus

laxis

Taxies charge 8 or 9 RMB for initial 2.5 kilometers and 1.2-1.4 RMB for every additional 1 kilometer. Only cash is accepted.

Emergency

medical120, fire119. In case of any emergency during the Symposium, please ask help at the registration desk, or call +86 551 5189888 ext. 715, or Qingsong Wang (mobile: 13514983704), or Naian Liu (mobile: 13956963264). Local staff will offer help 24 hours a day. General emergency call numbers in China: police110,

Social Program

Welcome Reception in the Cafeteria of AGNC Hotel

October 17 (Wednesday) 18:30-20:30

The cafeteria of AGNC Hotel (Mediterranean café) is on the first floor. Guidance towards the cafeteria will be available

Performance of Traditional Chinese Music in AGNC Hotel

October 18 (Thursday) 19:30-20:30

performance lounge will be available. This special performance, by USTC Student Orchestra of Nationalities Music, will take place at the Gaosu Lounge of AGNC Hotel. Guidance towards the

campus annually. Recent years, the orchestra has received lots of reception and praises. the art director of our orchestra. Since 2002, the orchestra has begun to set up symphonic ensemble training, and it organizes a folk music performance on faculties in our club. Zhao Yinhe, executive director of China Nationalities Orchestra Society, vice-chairman of Anhui Nationalities Orchestra Society, holds largest and most effective literature clubs, and it is also the most active amateur music performing group in Hefei. There are 50 formal performers and 7 Introduction to USTC Student Orchestra of Nationalities Music. USTC Student Orchestra of Nationalities Music, founded in 2002, is one of the oldest,

Visit the State Key Laboratory of Fire Science [Optional]

October 18 (Thursday) or October 19 (Friday), 09:30-11:00 / 15:30-17:00

Tourist Bus Arranged (will depart from the gate of AGNC Hotel at 9:30 / 15:30)

Visit the KDLian Safety Technology Co., Ltd. (Sponsor) [Optional]

October 19 (Friday) 15:30-17:30

Tourist Bus Arranged (will depart from the gate of AGNC Hotel at 15:30)

Symposium Banquet

October 19 (Friday) 18:30-21:00

The Symposium Banquet will take place at the Gaosu Lounge of AGNC Hotel. Guidance towards the performance lounge will be available

Visit Anhui Museum [Optional]

October 20 (Saturday) 14:00-16:00

Tourist Bus Arranged (will depart from the gate of AGNC Hotel at 14:00)

collections. All of these objects are of high historic, scientific and artistic value with distinct local features. Shang and Zhou dynasties to the historic and cultural relics and famous calligraphy and paintings of the modern times, Anhui Museum all has a mass of of the biggest provinces with a large number of cultural relics. For this reason, Anhui Museum boasts rich collections of cultural relics. From paleontological bronzes and stone tablets, calligraphy and paintings, four treasures of the study, "Three Carvings" of brick, stone and wood carvings, ancient books since the fossils in the Cretaceous Period to the cultural relics in the Paleolithic Period and the Neolithic Period, from bronze ware, ceramics, jade, inscriptions on Introduction to Anhui Museum. Anhui is propitious for giving birth to great men. It enjoys a long history and an abundance of cultural remains and is one

Visit Huiyuan Park and Expo Anhui Pavilion [Optional]

October 20 (Saturday) 16:00-18:00

Note this tour will follow the Visit of Anhui Museum. Tourist Bus Arranged (will depart from the gate of Anhui Museum at 16:00)

one park. In the respective areas of the park, all the cities of Anhui Province have their indicative constructions with their own local folks and cultural queer Huangshan Mountain, graceful Jiuhuashang Mountain, elegant Tianzhushang Mountain, artistic Langyashan Mountain – all the beauties collected in window to watch and learn Anhui Province as well as an ideal resort for sightseeing, entertainment and relaxation. modern museums reflecting the fruitful achievements of economic development made in Anhui Province, are all shown in this park. In a word, Huiyuan is a "Sails in Chaohu Lake", "Zhiyuan Garden Charms", "Buddhist Light in Jiuhuashan Mountains", "Li Bo Writing Moon Poems", etc. together with various features, either being an independent garden or complementing each other. Many beautiful artificial scenic spots, such as "Elegant Huangshan Mountain". Introduction to Huiyuan Park. Huiyuan, based on the folk anima and cultural elites, represents romantic charms of the typical scenery in Anhui Province –

production of Mo (Chinese solid ink) and Xuan paper as well as carving explore the success of Anhui merchants as well as its urban development. The province will also display 16 intangible cultural heritage crafts such as the *Introduction to Expo Anhui Pavilion.* World Expo Anhui Pavilion Relocates in Huiyuan Park. Visitors will be led through Anhui's beautiful old streets and

Farewell Dinner

October 20 (Saturday) 18:30-20:30

Tourist Bus Arranged (will depart from the gate of Expo Anhui Pavilion at 18:00)

Instructions for Speakers and Session Chairs

Oral presentation

begin and during coffee breaks. Please note that only Microsoft Powerpoint 2010 or earlier is available on the laptops. laptop (and test it) well ahead of your talk in your respective session room. A student assistant will be available there to assist you 15 minutes before sessions Please use the session room laptop for your presentation. To ensure a smooth meeting we recommend that you save your presentation on the session room

will be available. introduce the speakers. In each session room, two microphones are provided for questions from the audience. Remote controllers and laser pointers for slides Each room will have a wireless microphone for the speakers. Another microphone is available on the console for the session chair to make announcements or

and session chairs, will provide the microphones to the audience for questions Each room will be staffed with two student assistants (one additional audiovisual technician in the largest session room). The room staff will assist speakers

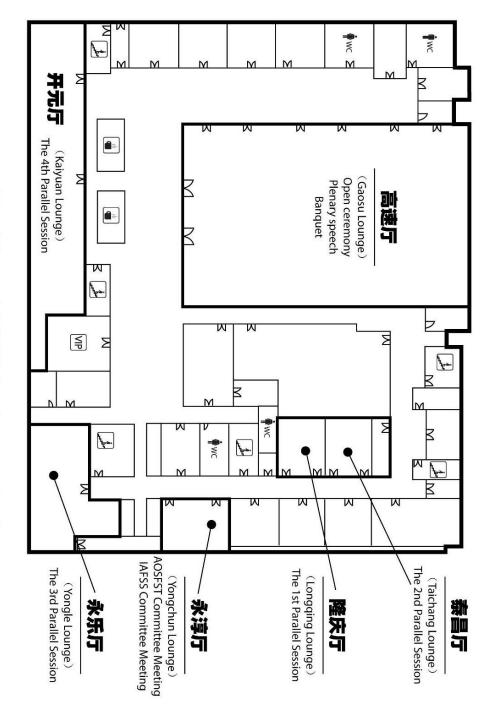
the next presentation and introduction of the next speaker. The Plenary speech is limited to 40 minutes, with 5 additional minutes for questions/discussion accurate and synchronized. Contributed papers are limited to 20 minutes, with 4 additional minutes for questions/discussion, and 1 minute for transition to Invited papers are limited to 30 minutes, with 4 additional minutes for questions/discussion, and 1 minute for transition to the next presentation The large number of contributed papers and simultaneous sessions makes it essential that speakers and session chairs cooperate to keep the session timing

indicating that the speaker has to finish soon. At 20 minutes, a buzzer warning will indicate the discussion period. At 25 minutes, there will be a flash of respectively 17 minutes (the color of the screen will be changed to be green) and 19 minutes (the color of the screen will be changed to be red and brown) colors which informs the speaker and audience that the transition to the next speaker must take place A computer in each room will be used to time the session. At the beginning of the talk, the computer screen will be blue. A warning will be given at

Poster presentation

Symposium staff Authors must hang the posters by themselves before the scheduled post presentation. Posters will be removed at the end of poster session by the authors or

Layout of AGNC Hotel



Top View of AGNC Conference hall

Sponsors

contributed to the success of the 9th Asia-Oceania Symposium on Fire Science and Technology. Asia-Oceania Association for Fire Science and Technology (AOAFST) acknowledges with appreciation the following organizations whose generous support



National Natural Science Foundation of China



Chinese Academy of Sciences



University of Science and Technology of China



Hefei KDLIAN Safety Technology Co.,LTD. X



"LTD. Xuzhou Dae-A Automans Co., LTD.

Winner of Lifetime-contribution Award of AOAFST 2012



Prof. Toshisuke Hirano

employed in Ibaraki University as a lecturer at Department of Mechanical Engineering and in 1971 promoted to be an associate professor there. In 1976 he moved to the University of Tokyo, Department of Reaction Chemistry and in 1985 was promoted to be a professor. Since 1994 he was belonged to Professor Toshisuke Hirano graduated from the graduate course of the University of Tokyo, Department of Aeronautics on April of 1968. Then he was Department of Chemical System Engineering. He retired from the University of Tokyo on March of 1999 and nominated as a professor emeritus

to AOAFST. Prof. Hirano held the first chairman of AOAFST during 1992-1995. Prof. Hirano was one of the founders of the Asia-Oceania Association for Fire Safety Science and Technology (AOAFST), which was known as AAFST (the Asian Association for Fire Science and Technology) before 1995. In 1995, AAFST expanded in its region to include Oceanian countries and changed the name

chairman) of committees or advisor by Japanese Governmental organizations. His contribution to the Japanese Government is enormous. Based on his knowledge, he has been frequently nominated as a member (in many cases than 170 original papers and 65 review papers. Because of his contribution to the communities of combustion and fire research, he has been elected to be the Professor Hirano is a very well known expert in the fields of combustion and fire research. His achievements in those fields have been presented in more 1995-Honorary President), International Association for Fire Safety Science (1997-2002), Japan Association for Fire Science and Engineering (1999-2001) Chairmen or Presidents of the Combustion Society of Japan (1989-1994), Asia-Oceania Association for Fire Science and Technology (1992-1995)

Contribution in Science (Japan Institute of Energy, 1999), The International Science and Technological Cooperation Award of the People's Republic of China (Japan Association for Fire Science and Technology, 1985), Dionizy Smolenski Medal (Poland Academy of Science, 1997), Award for Prominent Because of his achievements, Professor Hirano has been given major awards by various organizations. Those include Award for Prominent Contribution (2003), and The Bernard Lewis Medal (The Combustion Institute, 2004).

Winner of Lifetime-contribution Award of AOAFST 2012



Prof. Weicheng Fan

papers of Prof. Fan were published in Combustion and Flame, Combustion Science and Technology, Fire Safety Journal, and so on. authored seven monographs, 230 research papers (nearly 200 papers were indexed by Web of Science), and 6 authorized invention patents to date. Tens of mathematical and physical models of describing the interactions of flow, heat transfer and combustion in fires, and also developed the net modelling method be a professor there. He has been engaged in cross-disciplinary research on fire safety science and engineering for 30 years. Prof. Fan established many Prof. Fan has also contributed to the technological researches of fire safety. His technologies have been successfully applied to hundreds of large and for fire smoke simulation. He also contributed many theoretical models for special fire phenomena such as flashover, backdraft and fire whirl. Prof. Fan has Professor Fan graduated from the University of Science and Technology of China (USTC) in 1965. Then he was employed in USTC and in 1987 promoted to

most eminent fire laboratories. Prof. Fan, Prof. Toshisuke Hirano and Prof. Victor K. Bulgakov together initiated the establishment process of Asia-Oceania Prof. Fan is the founder of the State Key Laboratory of Fire Science (SKLFS). By his great leadership, SKLFS has developed rapidly to be one of the world's established a China national emergency system for fires and other disasters. For his great contribution, he was elected to be an academician of the Chinese AOAFST has developed rapidly to be the most important branch of IAFSS. Prof. Fan also held the Executive Member of IAFSS and the Vice Chairman of Association for Fire Safety Science and Technology (AOAFST) in 1991. Prof. Fan ever held the Chairman of AOAFST for six years (1995-2000). Now Academy of Engineering in 2001. In 2011, Prof. Fan won the First Prize of China National Award for Science and Technology Progress high-rise buildings in China. He ever won three times of China National Award for Science and Technology Progress. In recent years, Prof. Fan successfully

FORUM. He contributed nearly 30 invited/plenary speeches in symposiums of fire safety community

Excellent Paper Award of 9th AOSFST

- Greg Baker, Colleen Wade, Michael Spearpoint and Charley Fleischmann. Developing probabilistic design fires for performance-based fire safety engineering (Paper Number in Technical Program: 2A09).
- Jian Ma and Weiguo Song. Automatic clustering method of abnormal crowd flow pattern detection (Paper Number in Technical Program:
- Koyu Satoh, Naian Liu, Kuibin Zhou and Xiaodong Xie. CFD study of termination of fire whirls in urban fires (Paper Number in Technical
- Ning Ren, Yi Wang and Arnaud Trouve. Large Eddy Simulation of Vertical Turbulent Wall Fires (Paper Number in Technical Program: 2B08). Program: 2D01).

Symposium Committee

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Combustion (ICKC), Russia

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Session Chairs of 9th AOSFST

Name	Email	Affiliation	Session No.	Time	Date	Session
Greg B Baker	greg.baker@branz.co.nz	BRANZ Ltd	1A00	10:15-10:50	Oct. 18	Invited speech
Greg B Baker	greg.baker@branz.co.nz	BRANZ Ltd	1A01-1A03	10:50-12:05	Oct. 18	Evacuation Modelling
Edwin S Claridge	ed.claridge@beca.com	Beca	1A04-1A08	13:40-15:45	Oct. 18	Fire Service
George Hadjisophocleous	ghadjiso@connect.carleton.ca	Carleton University	1A04-1A08	13:40-15:45	Oct. 18	Fire Service
Grant Wang	grant.wang@arup.com.au	Arup	1A09-1A12	16:15-17:55	Oct. 18	Structural Fire Safety I
Takashi Tsuruda	TTsuruda@akita-pu.ac.jp	Akita Prefectural Univeristy	1A09-1A12	16:15-17:55	Oct. 18	Structural Fire Safety I
Jinhua Sun	sunjh@ustc.edu.cn	State Key Laboratory of Fire Science	1B00	10:15-10:50	Oct. 18	Invited speech
Bogdan Dlugogorski	bogdan.dlugogorski@newcastle.edu.au	The University of Newcastle	1B01-1B03	10:50-12:30	Oct. 18	Toxic and Hazardous Products
Jinhua Sun	sunjh@ustc.edu.cn	State Key Laboratory of Fire Science	1B01-1B03	10:50-12:30	Oct. 18	Toxic and Hazardous Products
Alvin Si-Xian Loo	si.loo@insa-rouen.fr	CNRS UMR 6614 CORIA,INSA de Rouen	1B04-1B08	13:40-15:45	Oct. 18	Extinction and Fire Extinguishment
Richard Yuen	bckkyuen@cityu.edu.hk	City University of Hong Kong	1B04-1B08	13:40-15:45	Oct. 18	Extinction and Fire Extinguishment
Oleg P Korobeinichev	korobein@kinetics.nsc.ru	Institute of Chemical Kinetics and Combustion	1B09-1B12	16:15-17:55	Oct. 18	Flammability/Thermal Degradation
Qiang Xu	kentqxu@hotmail.com	Nanjing University of Science and Technology	1B09-1B12	16:15-17:55	Oct. 18	Flammability/Thermal Degradation
Francesco Tamanini	francesco.tamanini@fmglobal.com	FM Global	1C00	10:15-10:50	Oct. 18	Invited speech
Francesco Tamanini	francesco.tamanini@fmglobal.com	FM Global	1C01-1C03	10:50-12:30	Oct. 18	Building and Compartment Fires I
Longhua Hu	hlh@ustc.edu.cn	State Key Laboratory of Fire Science	1C01-1C03	10:50-12:30	Oct. 18	Building and Compartment Fires I
Takeyoshi Tanaka	takey.tanaka@gmail.com	Kyoto University	1C04-1C08	13:40-15:45	Oct. 18	Building and Compartment Fires II
Cunfeng Zhang	cfzh@njut.edu.cn	Nanjing University of Technology	1C04-1C08	13:40-15:45	Oct. 18	Building and Compartment Fires II
Tensei Mizukami	mizukami@tbtl.org	The Center for Better Living	1C09-1C12	16:15-17:55	Oct. 18	Building and Compartment Fires III
Lizhong Yang	yanglz@ustc.edu.cn	State Key Laboratory of Fire Science	1C09-1C12	16:15-17:55	Oct. 18	Building and Compartment Fires III
Weicheng Fan	wfan@tsinghua.edu.cn	State Key Laboratory of Fire Science	1D00	10:15-10:50	Oct. 18	Invited speech
Fa-lin Chen	falin@iam.ntu.edu.tw	National Taiwan University	1D01-1D03	10:50-12:30	Oct. 18	Tunnel Fires
Weicheng Fan	wfan@tsinghua.edu.cn	State Key Laboratory of Fire Science	1D01-1D03	10:50-12:30	Oct. 18	Tunnel Fires
Ran Vijay Kumar Singh	drrvksingh@yahoo.com	CSIR-Central Institute of Mining & Fuel	1D04-1D08	13:40-15:45	Oct. 18	Industrial Safety I
		Research				
Eric Guillaume	eric.guillaume@lne.fr	Laboratoire national de métrologie et d'essais	1D04-1D08	13:40-15:45	Oct. 18	Industrial Safety I

liunai@ustc.edu.cn State Key Laboratory of Fire Science Banquet	Tanaka takey.tanaka@gmail.com Kyoto University Welcome speech	kvli@ustc.edu.cn University of Canterbury	Bogdan Dlugogorski bogdan.dlugogorski@newcastle.edu.au The University of Newcastle Plenary speech 9:00-9:45	Ya-ping He y.he@uws.edu.au University of Western Sydney Opening ceremony 8:20-9:00	Dongliang Sun dongliangsun@126.com SEPKERACCP 3D04-3D07 10:50-12:30	Yi Wang yi.wang@fmglobal.com University of Maryland 3D04-3D07 10:50-12:30	Xi Jiang xijiang@ustc.edu.cn State Key Laboratory of Fire Science 3D01-3D03 9:05-10:20	Xi Jiang xijiang@ustc.edu.cn State Key Laboratory of Fire Science 3D00 8:30-9:05	Yulianto Sulistyo Nugroho yulianto@eng.ui.ac.id Universitas Indonesia 3C04-3C07 10:50-12:30	Nai-Kong Fong benk fong@polyu.edu.hk The Hong Kong Polytechnic Univ. 3C04-3C07 10:50-12:30	Chung-Hwei Su georgesu2000@gmail.com WuFeng University 3C01-3C03 9:05-10:20	Naian Liu liunai@ustc.edu.cn State Key Laboratory of Fire Science 3C00 8:30-9:05	Lars Evers lars.evers@dsm.com DSM Composite Resins SH R&D Center 3B04-3B07 10:50-12:30	John L de Risjohn.deris@verizon.netFM Global3B01-3B039:05-10:20	John L de Risjohn.deris@verizon.netFM Global3B008:30-9:05	Weiguo Song wgsong@ustc.edu.cn State Key Laboratory of Fire Science 3A04-3A07 10:50-12:30	Li-jing Gao gao@cis.ac.jp Chiba Institute of Science 3A04-3A07 10:50-12:30	Tao Chen chentao.a@tsinghua.edu.cn Tsinghua University 3A01-3A03 9:05-10:20	Wan-ki Chow beelize@polyu.edu.hk The Hong Kong Polytechnic University 3A01-3A03 9:05-10:20	Wan-ki Chow beelize@polyu.edu.hk The Hong Kong Polytechnic University 3A00 8:30-9:05	Yuanzhou Li yzli@ustc.edu.cn State Key Laboratory of Fire Science 2D08-2D11 13:40-15:20	Kazunori Harada harada@archi.kyoto-u.ac.jp Kyoto University 2D08-2D11 13:40-15:20
Banquet	Welcome speech	Poster session	Plenary speech	Opening ceremony	3D04-3D07	3D04-3D07	3D01-3D03	3D00	3C04-3C07	3C04-3C07	3C01-3C03	3C00	3B04-3B07	3B01-3B03	3B00	3A04-3A07	3A04-3A07	3A01-3A03	3A01-3A03	3A00	2D08-2D11	2D08-2D11
19:00-21:00	18:30-19:00	15:50-16:50	9:00-9:45	8:20-9:00	10:50-12:30	10:50-12:30	9:05-10:20	8:30-9:05	10:50-12:30	10:50-12:30	9:05-10:20	8:30-9:05	10:50-12:30	9:05-10:20	8:30-9:05	10:50-12:30	10:50-12:30	9:05-10:20	9:05-10:20	8:30-9:05	13:40-15:20	13:40-15:20
Oct. 19	Oct. 19	Oct. 19	Oct. 18	Oct. 18	Oct. 20	Oct. 20	Oct. 20	Oct. 20	Oct. 20	Oct. 20	Oct. 20	Oct. 20	Oct. 20	Oct. 20	Oct. 20	Oct. 20	Oct. 20	Oct. 20	Oct. 20	Oct. 20	Oct. 19	Oct. 19
	by Prof. Wanki Chow				Measurement and Testing	Measurement and Testing	Coal Fire	Invited speech	Optical Analysis of Smoke	Optical Analysis of Smoke	Water Mist/Spray Suppression II	Invited speech	Fire Resistance / Fire Hindrance	Pool Fire and Fire Plume	Invited speech	Evacuation Method	Evacuation Method	Fire Statistical Analysis	Fire Statistical Analysis	Invited speech	Effect of Pressure	Effect of Pressure

Technical Program of 9th AOSFST

October 17 Wed	Wednesday			
14:00-18:30	Registration (Lobby of AGNC Hotel)			
18:30-20:30	Welcome Reception (Cafeteria of AGNC Hotel)	el)		
October 18 Thu	Thursday			
8:00	Registration (AGNC Hotel, Room 715)			
8:20-9:00	Open ceremony (Gaosu Lounge)			
	Weicheng Fan, Director of SKLFS, USTC	Bogdan Dlugogorski, Chairman of the IAFSS		
	Takeyoshi Tanaka, 9th AOSFST TC Chair	Tao Liu, <i>NSFC</i>		
	Naian Liu, 9th AOSFST PC Chair and Host Committee Executive Chair	Committee Executive Chair		
	Session Chair: Yaping He			
9:00-9:45	Plenary speech (Gaosu Lounge): Mechanism of buoyant turbulent diffusion flames	of buoyant turbulent diffusion flames		
	John L. de Ris, Factory Mutual Global, USA			
	Session Chair: Bogdan Dlugogorski			
9:45-10:15	Coffee break			
	Longqing Lounge	Taichang Lounge	Yongle Lounge	Gaosu Lounge
10:15-10:50	Invited speech	Invited speech	Invited speech	Invited speech
	Session Chair: Greg Baker	Session Chair: Jinhua Sun	Session Chair: Francesco Tamanini	Session Chair: Weicheng Fan
	1A00 10:15-10:50	1B00 10:15-10:50	1C00 10:15-10:50	1D00 10:15-10:50
	Experiment and modeling of microscopic	Material flammability: A combustion	Fire safety design for tall buildings	The integrated strategies for fire safety of
	movement characteristic of pedestrians	science perspective	José Torero, University of Edinburgh, UK	long road tunnels in Taiwan
	Weiguo Song, State Key Laboratory of Fire	James Tien, Case Western Reserve		Falin Chen, National Taiwan University
	Science, China	University, USA		
10:50-12:05	Evacuation Modelling	Toxic and Hazardous Products	Building and Compartment Fires I	Tunnel Fires
	Session Chairs: Greg Baker	Session Chairs: Jinhua Sun, Bogdan	Session Chairs: Francesco Tamanini,	Session Chairs: Weicheng Fan, Falin Chen
		Dlugogorski	Longhua Hu	
	1A01 10:50-11:15	1B01 10:50-11:15	1C01 10:50-11:15	1D01 10:50-11:15
	Calculation of mixed evacuation of stair	Comparative study on the formation of	Review on fire safety of exterior wall	The reduced-scale experimental research on
	and elevator using EVACNET4	toxic species from 4-chlorobiphenyl in	claddings in high-rise buildings in China	tunnel fire with natural ventilation
	Yonglin Min and Yanfei Yu.	fires: effect of catalytic surfaces	Lei Peng, Zhaopeng Ni and Xin Huang.	Zhongyuan Yuan, Bo Lei, Ahmed Kashef.
		Song Hou. John Mackie. Eric Kennedy and		

	IA02 11:15-11:40 Rescue route reselection model and algorithm for the unexpected accident Xiaoge Wei, Wei Lv and Weiguo Song. 1A03 11:40-12:05 Experiment and modelling for pedestrian following behavior using velocity-headway relation Wei Lv, Zhiming Fang, Xiaoge Wei, Weiguo Song and Xuan Liu.	Bogdan Dlugogorski. 1B02 11:15-11:40 A model to predict carbon monoxide of woods under external heat flux-part I: theory Long Shi and Michael Yit Lin Chew. 1B03 11:40-12:05 A model to predict carbon monoxide of woods under external heat flux-part II: validation Long Shi and Michael Yit Lin Chew.	ICO2 11:15-11:40 Investigating the merging behavior at the floor-stair interface of high-rise building based on computer simulations Yuanchun Ding, Lizhong Yang and Ping Rao. ICO3 11:40-12:05 An experimental study on the combustibles investigation and fire growth rate for predicting initial fire behavior in building Dong-Goo Seo, Dong-Eun Kim, Bong-Chan Kim and Young-Jin Kwon.	1D02 11:15-11:40 Research on the phenomenon of plug-holing under mechanical smoke exhaust in tunnel fire Linjie Li, Zihe Gao, Jie Ji, Jianyun Han and Jinhua Sun. 1D03 11:40-12:05 No Presentation
12:10-13:35	Lunch (Cafeteria of AGNC Hotel) Longqing Lounge	Taichang Lounge	Yongle Lounge	Kaiyuan Lounge
13:40-15:45	Fire Service Session Chairs: George Hadjisophocleous, Edwin Claridge 1A04 13:40-14:05 Fire safety provisions for aged concrete building structures Grant Wang, David Barber, Peter Johnson and Man-Cheung Hui. 1A05 14:05-14:30 Upgrading fire safety strategies for the existing non-residential occupancies in Taipei city Shen-Wen Chien, Ying-Yueh Chen, Ching-Yuan Lin, Tzu-Sheng Shen and Po-Ta Huang	Extinction and Fire Extinguishment Session Chairs: Richard K.K. Yuen, Alvin Si-Xian Loo 1B04 13:40-14:05 On the self-extinction time of pool fire in closed compartments Jiaqing Zhang, Shouxiang Lu, Changhai Li, Man Yuan and Richard K. K. Yuen. 1B05 14:05-14:30 Vent size effect on self-extinction of pool fire in a ceiling vented compartment Qize He, Changhai Li and Shouxiang Lu.	Building and Compartment Fires II Session Chairs: Takeyoshi Tanaka, Cunfeng Zhang 1C04 13:40-14:05 Facade flame heights from enclosure fires with side walls at the opening Kaihua Lu, Longhua Hu, Fei Tang, Michael Delichatsios, Xiaochun Zhang and Linghui He. 1C05 14:05-14:30 An experimental study on fire spread over polyurethane block receiving heat feedback from adjacent walls Junghoon Ji, Kazuhiko Ido, Kazunori Harada, Yoshifumi Ohmiya and Masaaki Noaki	Industrial Safety I Session Chairs: Eric Guillaume, Ran Vijay Kumar Singh 1D04 13:40-14:05 Influence of the protective layer of polyvinylchloride resin on failure of LPG vessel caused by heat radiation Dongliang Sun, Guangtuan Huang, Juncheng Jiang, Mingguang Zhang and Zhirong Wang. 1D05 14:05-14:30 Comparison of the maximum gas combustion pressure of hydrogen/oxygen/nitrogen-between chemical equilibrium calculations and experimental data Gang Tag and Daniel Crowl

Investigation of the flammability of Defining the difference between backdraft
Qiang Xu, Cong Jin, Martin Zachar and Bing Chen, Shouxiang Lu, Changhai Li and Andrea Majlingova. Man Yuan.
ceilin
Test flammability of PVC wall panel with Analysis of compartment fires with a
1C09 16:15-16:40
Yang
Session Chairs: Oleg Korobeinichev, Qiang Session Chairs: Tensei Mizukami, Lizhong
Flammability/Thermal Degradation Building and Compartment Fires III
Yongle Lounge
Xiang Jin, Xiaomeng Zhou, Guangxuan Kaiyuan Li. Liao and Jia Wang.
of monobromotrifluoropropene New Zealand medium density fibreboard
Synthesis and fire-extinguishing affection On determining density and specific heat of
1C08
Xuemin Niu, Yongqi Xie and Yuji Hasemi. Junmin Chen, Xiaolin Yao and Shaoping Li.
of helicopter under no-ventilation condition CRH
extinguishing agent distribution in nacelle condition on the heat release rate of the
Analysis of fire spread and fire Study
1C07
Alvin Si-Xian Loo, Alexis Coppalle and Yincheng Guo and Lianyu Cao.
flows
Flame extinction in a ventilation controlled Comparison of fire induced and heat driven

19:30-20:30	18:00-19:00	15:30-17:00	09:30-11:00																
Performance of Traditional Chinese Music	Dinner (Cafeteria of AGNC Hotel)	Visit the State Key Laboratory of Fire Science	Visit the State Key Laboratory of Fire Science	Yamazaki.	Kang, Young-Jin Kwon and Mashiro	Jae-Young Lee, Kaunori Harada, Sung-Goo	strength concrete small columns	Entire and partial heating tests of high	1A12 17:30-17:55			Gao-Feng Ma.	Wei-Yong Wang, Yoshi Ohmiya and	strength steel columns	Fire resistance study of axially loaded high	1A11 17:05-17:30		Bernice V.Y. Wong and Ian W. Burgess.	floor-steel beams with web-openings
Performance of Traditional Chinese Music (USTC Student Orchestra of Nationalities Music) (Gaosu Lounge)		Visit the State Key Laboratory of Fire Science (Optional), Tourist Bus Arranged (will depart from the gate of AGNC Hotel at 15:30)	Visit the State Key Laboratory of Fire Science (Optional), Tourist Bus Arranged (will depart from the gate of AGNC Hotel at 9:30)		and Jianjun Zhou.	Haixiang Chen, Weitao Zhao, Naian Liu	duff due to surface forest fire	Thermal decomposition extent of forest	1B12 17:30-17:55				Zefan Jiang, Kuang Qin and Quanwei Li.	Pin Zhang, Liying Cao, Renming Pan,	A study on the pyrolysis of CHF3	1B11 17:05-17:30	Richard K.K. Yuen and Heping Zhang.	Hua Yang, Qiang Fu, Xudong Cheng,	flow calorimeter
sic) (Gaosu Lounge)		from the gate of AGNC Hotel at 15:30)	from the gate of AGNC Hotel at 9:30)		Jiaxin Gao and Guangxuan Liao.	Weifeng Zhao, Ruowen Zong, Bin Yao,	in the long-narrow confined space	Analysis of influencing factors on flashover	1C12 17:30-17:55			Sung-Chan Lee and Kazunori Harada.	rate	flashover and corresponding heat release	A simplified formula for occurrence of	1C11 17:05-17:30			Charles Fleischmann, Zhijian Chen
								No Presentation	1D12 17:30-17:55	Yao.	Huang, Xiaole Zhang, Zhipeng Li and Wei	Quanyi Liu, Hui Zhang, Yi Liu, Hong	air-conditioning system	refrigerants leaking in building	Influencing factors of flammable	1D11 17:05-17:30	Jia Jia and Shouxiang Lu.	networks	non-contact explosions using Bayesian

8:00	Registration (AGNC Hotel, Room 715)			
	Longqing Lounge	Taichang Lounge	Yongle Lounge	Kaiyuan Lounge
8:20-8:55	Invited speech	Invited speech	Invited speech	Invited speech
	Session Chair: Asif Usmani	Session Chair: James S Tien	Session Chair: Sergey B Dorofeev	Session Chair: Vincent P Dowling
	2A00 8:20-8:55	2B00 8:20-8:55	2C00 8:20-8:55	2D00 8:20-8:55
	Fire performance of steel reinforced	Combustion chemistry and decomposition	Accuracy (trueness and precision) of cone	Experimentally simulating wind driven
	concrete (SRC) structures	kinetics of forest fuels	calorimeter tests with and without a vitiated firebrand showers in Wildland-urban	firebrand showers in Wildland-urban
	Linhai Han, Tsinghua University, China	Oleg Korobeinichev, Siberian Branch	air enclosure	interface (WUI) fires: Overview of the
		Russian Academy of Sciences, Russia	Damien Marquis, Laboratoire Nationale de	NIST firebrand generator (NIST dragon)
			metrology et d'Essais, France	technology

					10:10-10:40 Coffee break		and Ana Middeflovic.	Ivanka Netinger, Marija Jelčić Rukavina	with steel slag aggregate	Improvement of fire resistance of concrete	2A03 9:45-10:10		Tensei Mizukami and Takeyoshi Tanaka.	resistance of mud-plastered wall	Simple equations for predicting thermal	2A02 9:20-9:45	Kazunori Harada.	Byung-Chan Han, Jea-Young Lee and	Seung-Goo Kang, Bong-Chan Kim,	Young-Kin Kwon, Dong-Jun Kim,	Galerkin finite element method	reinforced concrete members using	Fire resistance performance analysis of	2A01 8:55-9:20		Session Chairs: Asif Usmani, Linhai Han	8:55-10:10 Structural Fire Safety II		
		chmann						ić Rukavina		ce of concrete			oshi Tanaka.	wall	ing thermal			g Lee and	n Kim,	Kim,	od	using	analysis of			, Linhai Han			
		Session Chairs: Baljinder Kandola, Fei You	Fire Chemistry	Taichang Lounge		Yuan Hu.	(lactic acid)	hydroxide on the fire retardancy of poly	montmorillonite and layered nickel	Combination effect of organically modified	2B03 9:45-10:10	Gang Tang, Yuan Hu and Let Song.	retardant EPDM composites	degradation of a novel intumescent flame	Study on the flammability and thermal	2B02 9:20-9:45			Yuan Hu.	Junfeng Xiao, Shaofeng Wang, Ping Lu and	of polycarbonate nanocomposites	illonite on thermal degradation mechanism	Effect of organically modified montmor-	2B01 8:55-9:20		Session Chairs: James S Tien, Yuan Hu	Flame Retardant		
Session Chairs: Greg Griffin, Xishi Wang	Session Chairs: Greg Griffin, Xishi Wang		Water Mist/Spray Suppression I	Yongle Lounge				Cunfeng Zhang and Wanki Chow.	sprinkler and smoke layer	Numerical studies on the interaction of	2C03 9:45-10:10	Chien-Wei Wu.	Chung-Hwei Su, Hung-Yi Hou and	responsiveness of the glass bulb sprinklers	Analysis on practical thermal	2C02 9:20-9:45					Leong Poon.	active protection of structures	Assessing the reliance of sprinklers for	2C01 8:55-9:20	Guangxuan Liao	Session Chairs: Sergey B Dorofeev,	Sprinkler Suppression		
Hokugo		Session Chairs: Xiaorui Tian, Akihiko	Urban, WUI, Forest Fires II	Kaiyuan Lounge		CHOI CHOIL	Chan Chan	Hanyuan Yu, Song Guo, Minjun Peng,	fire whirl combustion characteristic	Study on the influences of air-inlet width on	2D03 9:45-10:10	Deyong Wang, Tao Weng, Jiping Zhu, Lu Lu and Guangxuan Liao.	successional building fires	emergency and rescue on urban	Sequential decision analysis of fire	2D02 9:20-9:45				Xiaodong Xie.	Koyu Satoh, Naian Liu, Kuibin Zhou and	urban fires	CFD study of termination of fire whirls in	2D01 8:55-9:20	L Manzello	Session Chairs: Vincent P Dowling, Samuel	Urban, WUI, Forest Fires I	Samuel Manzello, NIST, USA	

huilding by curick	Fire risk analysis of a 6-storey residential	2A08 13:40-14:05	Hees	Session Chairs: José Torero, Patrick van	13:40-15:20 Risk Analysis/Fire Safety Design	Longqing Lounge	12:00-13:35 Lunch (Cafeteria of AGNC Hotel)	Jian Ma and Weiguo Song.	crowd flow pattern detection	Automatic clustering method of abnormal	2A07 12:05-12:30	Huang.	Zhuyang Han, Wenguo Weng and Quanyi	in building fire	human movements on smoke propagation	Numerical investigation on the effects of	2A06 11:40-12:05	Jun Zhang and Armin Seyfried.	of pedestrian streams	Empirical characteristics of different types	2A05 11:15-11:40	Yaping He	Session Chairs: Charley Fleischmann,	Evacuation Behavior	Australia	Yaping He, University of Western Sydney,
	itial Large eddy simulation of vertical turbulent	2B08 13:40-14:05		an Session Chairs: Arnaud Trouve, Jie Ji	Numerical Modelling	Taichang Lounge				mal No Presentation	2B07 11:55-12:20		anyi Gandjar Kiswanto and Yulianto Nugroho.	Revaldo I.M. Zen, M. Rahmat Widyanto,	tion mathematical model of meaning	of Dangerous smoke classification using	2B06 11:30-11:55			ypes Jiangtao An and Yong Jiang.	methods for large hydrocarbons	and error-propagation-based reduction	Differences between direct relation graph	2B05 11:05-11:30	inert and oxidative media Oleg Korobeinichev, Alexander Paletsky, Munko Gonchikzhapov, Irina Shundrina, Haixiang Chen and Naian Liu.	ney, ultrahigh-molecular-weight polyethylene in
	A real-time video fire flame and smoke	2C08 13:40-14:05	Akizuki	Session Chairs: Wolfgang Krull, Yuki	Fire and Smoke Detection	Yongle Lounge				No Presentation	2C07 11:55-12:20		Yuen, Siuming Lo and Guangxuan Liao.	Tianshui Liang, Wei Zhong, Richard K.K.	water mist	On the fire intensification of pool fire with	2C06 11:30-11:55			Binbin Wu and Guangxuan Liao.	multi-component additive	water mist with a newly prepared	Experimental study on fire extinguishing of	2C05 11:05-11:30		Jun Qin and Wanki Chow.
	Momentum-dominated methane jet flame at	2D08 13:40-14:05	Yuanzhou Li	Session Chairs: Kazunori Harada,	Effect of Pressure	Kaiyuan Lounge				No Presentation	2D07 11:55-12:20		Mingyu Wang and Liguang Chen.	Xiaorui Tian, Lifu Shu, Fengjun Zhao,	Daxing anling region within 1987-2010	The fire danger and fire regime for	2D06 11:30-11:55		Zhang and Jiajie Yao.	Jiping Zhu, Jingrui Jia, Jun Wu, Linhe	prediction by considering crown density	method for fine fuel moisture content	An modified model of direct estimation	2D05 11:05-11:30	António Figueiredo.	Domingos Viegas, Jorge Raposo and

	18:30-21:00	15:30-17:30	16:30-18:00	15:30-16:30	15:30-17:00	09:30-11:00	15:50-16:50	15:20-15:50																							
Banquet (Session Chair: Naian Liu) (Gaosu Lounge)	Welcome speech (Session Chair: Takeyoshi T	Visit the KDLian Safety Technology Co., Ltd	IAFSS Committee Meeting (Yongchun Loun	AOSFST Committee Meeting (Yongchun Lov	Visit the State Key Laboratory of Fire Science	Visit the State Key Laboratory of Fire Science	Poster Session (Session Chair: Kaiyuan Li)	Coffee break		Heping Zhang.	Sen Li, Xudong Cheng, Yanwei Chen and	target regions with varying boundary length	The optimal placement of sensors in square	2A11 14:55-15:20				Stone.	Daniel Turhanlar, Yaping He and Glenn	a reliability study	The use of lifts for emergency evacuation -	2A10 14:30-14:55			Spearpoint and Charley Fleischmann.	Greg Baker, Colleen Wade, Michael	performance-based fire safety engineering	Developing probabilistic design fires for	2A09 14:05-14:30	Hadjisophocleous.	Xiao Li, Xia Zhang and George
.ounge)	Welcome speech (Session Chair: Takeyoshi Tanaka): Experience on implementing performance-based design in Hong Kong, Wanki Chow, Chairman of the AOAFST (Gaosu Lounge)	Visit the KDLian Safety Technology Co., Ltd. (Sponsor) (Optional), Tourist Bus Arranged (will depart from the gate of AGNC Hotel at 15:30)	IAFSS Committee Meeting (Yongchun Lounge), Session Chair: Bogdan Dlugogorski, Chairman of	AOSFST Committee Meeting (Yongchun Lounge), Session Chair: Wanki Chow, Chairman of the AOAFST	Visit the State Key Laboratory of Fire Science (Optional), Tourist Bus Arranged (will depart from the gate of AGNC Hotel at 15:30)	Visit the State Key Laboratory of Fire Science (Optional), Tourist Bus Arranged (will depart from the gate of AGNC Hotel at 9:30)			Wang and Hui Zhang.	Wei Yao, Jiusheng Yin, Xiaokang Hu, Jian	equilibrium	pool fires based on heat feedback	Numerical modeling of liquid n-heptane	2B11 14:55-15:20				Xiaochun Zhang, Longhua Hu, Fei Tang.	different aspect ratios	re-circulation in urban street canyons of	Large eddy simulation of fire smoke	2B10 14:30-14:55		and Ziru Guo.	Quan Wang, Honghao Ma, Zhaowu Shen	in square tube with different solid obstacles	methane-air flame propagating parameters	Numerical simulation of premixed	2B09 14:05-14:30		Ning Ren, Yi Wang and Arnaud Trouve.
	ice-based design in Hong Kong, Wanki Chow,	vill depart from the gate of AGNC Hotel at 15:	man of the IAFSS	f the AOAFST	from the gate of AGNC Hotel at 15:30)	from the gate of AGNC Hotel at 9:30)							No Presentation	2C11 14:55-15:20				Zhang.	Jie Li, Wei Yuan, Yi Zeng and Yongming	detection for transportation hub complex	A modified method of video-based smoke	2C10 14:30-14:55		Wang and Yongming Zhang.	Dan Zhang, Jun Fang, Jingfu Guan, Jinjun	illumination environments	outdoor fire under transverse airflow and	Optimal parameter of flame detection for	2C09 14:05-14:30		Chunyu Yu, Zhibin Mei and Xi Zhang.
	Chairman of the AOAFST (Gaosu Lounge)	30)							Jian Li.	Cuipeng Kuang, Yuanzhou Li, Shi Zhu and	fires	combustion characteristics of ethanol pool	Influence of different low air pressure on	2D11 14:55-15:20	Delichatsios.	Xiaochun Zhang, Kaihua Lu and Michael	Fei Tang, Longhua Hu, Qiang Wang,	air pressure	over-ventilated enclosure fires in a reduced	thermal plume temperature profile from	An experimental study on buoyant spilled	2D10 14:30-14:55	Xiaochun Zhang and Michael Delichatsios.	Qiang Wang, Longhua Hu, Fei Tang,	and normal pressure atmosphere	buoyant jet diffusion flame under reduced-	fluctuation magnitude of a turbulent	Characterization and comparison of flame	2D09 14:05-14:30	Ran Tu and Yongming Zhang.	Yi Zeng, Jun Fang, Jingwu Wang, Jie Li,

October 20 Saturday	rday			
8:00	Registration (AGNC Hotel, Room 715)			
	Longqing Lounge	Taichang Lounge	Yongle Lounge	Kaiyuan Lounge
8:30-9:05	Invited speech	Invited speech	Invited speech	Invited speech
	Session Chair: Wanki Chow	Session Chair: John L. de Ris	Session Chair: Naian Liu	Session Chair: Xi Jiang
	3A00 8:30-9:05	3B00 8:30-9:05	3C00 8:30-9:05	3D00 8:30-9:05
	Mechanism of tsunami fires after the Great	Validation and verification of fire models	Nuclear power plant explosions at	Spontaneous heating and fire in coal mines
	East Japan Earthquake 2011 and evacuation	for fire safety engineering	Fukushima-Daiichi	Ran Vijay Kumar Singh, Central Institute
	from the tsunami fires	Patrick van Hees, University of Lund,	Takashi Tsuruda, Akita Prefecture	of Mining & Fuel Research, India
	Akihiko Hokugo, Kobe University, Japan	Sweden	University, Japan	
9:05-10:20	Fire Statistical Analysis	Pool Fire and Fire Plume	Water Mist/Spray Suppression II	Coal Fire
	Session Chairs: Wanki Chow, Tao Chen	Session Chairs: John L. de Ris	Session Chairs: Chung-Hwei Su	Session Chairs: Xi Jiang
	3A01 9:05-9:30	3B01 9:05-9:30	3C01 9:05-9:30	3D01 9:05-9:30
	Influence of government on the power-law	Analysis of the combustion efficiencies and	Experimental study on suppression of	Optimization of ventilating energy
	distribution of city fires in Jiangxi, China	heat release rates of pool fires in ceiling	n-heptane pool fire with water mist under	distribution for controlling coal
	Peng Mei, Guohui Li, Song Lu and Heping	vented compartments	longitudinal ventilation in long and narrow	spontaneous combustion of sealed panel in
	Zhang.	Man Yuan, Bing Chen, Changhai Li,	spaces	underground coal mines
		Jiaqing Zhang and Shouxiang Lu.	Quanwei Li, Pin Zhang, Song Guo,	Tao Yu, Ping Lu, Qingsong Wang and
			Renming Pan, Jun Qin and Guangxuan	Jinhua Sun.
	3A02 9:30-9:55	3B02 9:30-9:55	3C02 9:30-9:55	3D02 9:30-9:55
	Time-scaling properties of high-casualty	Effects of cross air flow on mass loss rates	Fire behavior and mist suppression of a	Experimental study on the influence of
	fires in China	of circular aviation fuel pool fires in large	room lined with glass reinforced polymer	initial pressure on explosion of
	Song Lu, Peng Mei, Guohui Li, Hui Yang	open space	(GRP) panels	methane-coal dust mixtures
	and Heping Zhang.	Ping Jiang and Shouxiang Lu.	Greg Griffin, Qiang Xu, Christopher	Yuan Li, Hongli Xu and Xishi Wang and
			Preston, Glenn Bradbury and Nathan White.	Qiang Wang.
	3A03 9:55-10:20	3B03 9:55-10:20	3C03 9:55-10:20	3D03 9:55-10:20
	Correspondence analysis: exploring the	Influence of roof opening on gas	Experimental study of water drop with	Experimental study on characteristic
	association between fire causes and	temperature rise in an enclosure	additive impact on wood surfaces	parameters of coal spontaneous combustion
	influence factors	Qiang Li, Jiaqing Zhang and Shouxiang Lu.	Xianjia Huang, Pingping Chen, Meijuan	Zhanli Mao, Hongya Zhu, Xuejuan Zhao,

	Guohui Li, Song Lu, Heping Zhang and		Lan, Xishi Wang and Guangxuan Liao.	Qingsong Wang and Jinhua Sun.
	Siuming Lo.			
10:20-10:50	Coffee break			
	Longqing Lounge	Taichang Lounge	Yongle Lounge	Kaiyuan Lounge
10:50-12:30	Evacuation Method	Fire Resistance/Fire Hindrance	Optical Analysis of Smoke	Measurement and Testing
	Session Chairs: Weiguo Song, Lijing Gao	Session Chairs: Lars Evers	Session Chairs: Yulianto Nugroho, Nai-Kong Fong	Session Chairs: Yi Wang, Dongliang Sun
	3A04 10:50-11:15	3B04 10:50-11:15	3C04 10:50-11:15	3D04 10:50-11:15
	Experimental study of the impact of	The experimental study on combustion	Scattering intensity of floor illuminance and	Spectral study of the smoke optical density
	personality traits on occupant exit choice	characteristics for polyurethane-aluminum	surface luminance of smoldering smoke	in non-flaming condition
	during building evacuation	composite insulation material under	layer	Julien Tissot, Martine Talbaut, Jerome Yon
	Xin Zhan, Lizhong Yang, Kongjin Zhu,	different heat flux	Yuki Akizuki, Naoya Hara, Kazunori	and Alexis Coppalle.
	Xiaoming Kong, Ping Rao and Taolin	Jun Xu and Tingyong Fang.	Harada and Chunguang Lin.	
	Zhang.			
	3A05 11:15-11:40	3B05 11:15-11:40	3C05 11:15-11:40	3D05 11:15-11:40
	Reliability analysis of occupant safety	Thermal shock effect on the glass thermal	Prediction model for target luminance in	Analyzing the characteristics of
	evacuation in public assembly occupancies	stress response and crack propagation	fire smoke by taking into consideration the	unidirectional bicycle movement around a
	Zhanli Mao, Honglin Mu, Huahua Xiao,	Qingsong Wang, Haodong Chen, Yu Wang	adhesion of smoke particles	track based on digital image processing
	Jinhua Sun and Lijing Gao.	and Jinhua Sun.	Yuki Akizuki and Takeyoshi Tanaka.	Xu Mai, Weiguo Song and Jiang Rui.
	3A06 11:40-12:05	3B06 11:40-12:05	3C06 11:40-12:05	3D06 11:40-12:05
	Experimental study of evacuation from a	Simulating the thermal response of glass	Investigation of the performance and	Effects of moisture transfer and
	4-storey building	under various shading conditions in a fire	improvement of optical smoke detectors	condensation in protective clothing based
	Tao Chen, Lili Pan, Hui Zhang, Satish	Yu Wang, Qingsong Wang, Xuebao Fan and	Hing-Man To, Nai-Kong Fong.	on thermal manikin experiment in fire
	Narayanan and Nicholas Soldner.	Jinhua Sun.		environment
				Ming Fu, Wenguo Weng and Xuefeng Han.
	3A07 12:05-12:30	3B07 12:05-12:30	3C07 12:05-12:30	3D07 12:05-12:30
	No Presentation	The influence of K4[Fe(CN)6] aerosol on	Analysis of dust properties to solve the	The effect of flow approaching angle on the
		the flame speed of methane-air flame	complex problem of non-fire sensitivity	velocity measurement using bi-directional
		Oleg Korobeinichev, Andrey Shmakov,	testing of optical smoke detectors	velocity probe
		Anatoly Chernov, Tatyana Bolshova, Yana	Wolfgang Kruell, Thorsten Schultze, Robert	Sung-Chan Kim and Jung-Yong Kim.
		Terenteva and Georgy Borisov.	Tobera and Ingolf Willms.	
12:40-13:50	Lunch (Cafeteria of AGNC Hotel)			

14:00-16:00 Visit Anhui Museum, Tourist Bus Arranged (will depart from conference hall at 14:00) 16:00 18:00 Visit Huiman Bark and/or Expo Anhui Barilian Eallow the visit to Anhui Museum. Tourist Bus Arranged (
18:30-20:30 Farewell Dinner

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Posters

- P01 Zaixia Fan, Rujing Zhu, Wei Li, Lars Evers and Hao Yu. Method to Optimize Fabricating Process and FR Properties of Fiber Reinforced **Unsaturated Polyester Composites**
- P02 Furnace Slag (GGBFS) Kuang-Chung Tsai and Wei-Ting Chung. Effect of Fire on Compressive Strength of Early Cured Mortars with Ground Granulated Blast
- P03 Damien Marquis, Gildas Auguin and Philippe Barabinot. Fire resistance of sandwich composite materials
- P04 Dongliang Sun, Guangtuan Huang, Juncheng Jiang, Mingguang Zhang and Zhirong Wang. Influence of the protective layer of polyvinylchloride resin on failure of LPG vessel caused by heat radiation
- P05 Shundrina. Comparison of the influence of phosphorus flame retardant and graphite nanoplastes on the thermal decomposition and Munko Gonchikzhapov, Alexander Paletsky, Oleg Korobeinichev, Sergey Lomakin, Lyudmila Novokshonova, Petr Brevnov and Inna flammability of polyethylene
- P06 Kuang-Chung Tsai and Wei-Ting Chung. Predicting the Post-Flashover Temperature in a Compartment Fire UsingAdiabatic Gas Temperature
- P07 Muhammad A Santoso, Agus S Pamitran, Raldi A Koestoer and Yulianto S Nugroho. Simulation of the Effect of Ventilation Rate and Platform's Ceiling Height on Visibility in a Typical Underground Metro Station's Fire
- P08 Bernice Wong, Mark Yau. Fire Strategy for Shanghai Expo 2010 UK Pavilion