

2nd International Symposium on Flame-Retardant Materials & Technologies

(ISFRMT 2012)

September 17-20, 2012

Chengdu, China

Program

Organized by

China Flame Retardant Society
Materials Division, Science & Technology Commission of Ministry of Education
National Engineering Laboratory of Eco-Friendly Polymeric Materials (Sichuan University)
State Key Laboratory of Polymer Materials Engineering (Sichuan University)
Engineering Research Center of Eco-Friendly Polymeric Materials of Ministry of Education

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第二届国际阻燃材料与技术研讨会

(ISFRMT 2012)

2012 年 9 月 17-20 日

中国·成都

会议日程

主办单位

中国阻燃学会
中国教育部科学技术委员会材料学部
环保型高分子材料国家地方联合工程实验室（四川大学）
高分子材料工程国家重点实验室（四川大学）
环境友好高分子材料教育部工程研究中心（四川大学）

支持单位

中国国家自然科学基金委员会 (NSFC)
(德国) 巴斯夫
环球（香港）科技有限公司

支持媒体

中国材料进展
中国聚合物网

Symposium Chairman (大会主席): Prof. Yu-Zhong Wang (王玉忠 教授)

General Secretary (大会秘书长): Prof. Zheng-Mao Zhou (周政懋 教授)

Secretaries (秘书): Dr. Li Chen (陈力), Dr. Jian-Qian Huang (黄鉴前)

Dr. Cong Deng (邓聪), Mr. Rong-Kun Jian (简荣坤)

Mr. Rong Yang (杨荣), Mr. Bin Zhao (赵斌)

Mr. Yi Zhang (张怡)

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(学术委员会)

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Prof. T. R. Hull *Univ. Central Lancashire, UK*

Prof. B. Kandola *Univ. Bolton, UK*

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Prof. C. Q. Yang *Univ. Georgia, GA, USA*

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Prof. Zheng-Mao Zhou *China Flame-Retardant Society*

Prof. Ping Zhu *Wuhan Textile Univ., China*

SYMPOSIUM SCHEDULE

研讨会日程表

Date 日期	Morning 上午	Afternoon 下午	Evening 晚上
Sept. 17 Monday 9 月 17 日	Registration (现场注册)	Registration (现场注册)	Welcome Reception (欢迎晚宴) 18:30-19:30
Sept. 18 Tuesday 9 月 18 日	Opening Ceremony (开幕式) 08:30-08:50 Oral Presentations (口头报告) 08:50-12:20	Oral Presentations (口头报告) 14:00-17:10 Oral Presentation of Posters (墙报讲解) 17:10-18:20	Poster session (墙报展讲) 19:30-21:30
Sept. 19 Wednesday 9 月 19 日	Oral Presentations (口头报告) 08:30-12:30	Oral Presentations (口头报告) 14:00-17:40	Banquet (宴会) 18:30-20:30
Sept. 20 Thursday 9 月 20 日	Meeting of Ind.-Univ. Innovation Alliance for FR Technologies (for part of the participants) (产学研创新联盟交流会)		
Post Conference Tour* (会后旅游观光)			

*Notes: If attendees want to go for an excursion after the Symposium, the tours may be organized by the Chinese Travelling Agency of Chengdu consigned by the conference. The travel fees are not included in the conference registration fees, and will be paid by the attendees. The more details can be found via the Website: <http://www.CTS.com.cn> or the attendees may consult the Travelling Agency on site.

*备注: 参会者可自愿报名自费参加由中国旅行社成都分公司组织的旅行团。更多信息请查阅川藏旅游之窗: <http://www.CTS.com.cn> 或报到时现场咨询旅行社。

SCIENTIFIC PROGRAM

学术报告时间安排

Keynote Presentation 主题报告	25+5 minutes discussion 25 分钟报告时间及 5 分钟讨论时间
Oral Presentation 口头报告	15+5 minutes discussion 15 分钟报告时间及 5 分钟讨论时间
Poster Presentation 墙报讲解	1 minute+2 hours 1 分钟主会场讲解加 2 小时展厅展讲

An assistant to the session chairman will be in the lecture room 15 minutes before each session beginning to help loading presentation material into the computer connected to the multimedia projector.

报告人应在分会开始前的 15 分钟把报告的 PPT 交给会场指定服务人员拷入会议专用的笔记本电脑，以确保不影响会议进程。

墙报讲解须知：

1. 本次研讨会组委会将为与会人员提供墙报 X 型展架（180 cm 高，80 cm 宽）。墙报应包含题目、摘要、正文（包括必要的图、表和化学结构方程式）和结论，全文英文书写，请尽量使用彩色排版印刷已获得更好的展示效果。文字和图表表述请尽可能简洁明了，请使用适当大小的字体，以确保墙报所有的文字部分清晰易读。请确保在会议日程指定的时间段展示。在墙报展示过程中，作者本人或授权代表必须出席。

2. 为达到更好交流的目的，组委会在 18 日下午安排有 Poster 讲解程序，供每位墙报展讲人上台对本人墙报做 1-2 分钟的 PPT 讲解，告诉听众这篇文章的主要内容，引起听众的兴趣，吸引大家晚上去看自己的 Poster。请每位 Poster 展讲人提前准备。

3. 最优墙报奖。会议组委会和学术委员会将在墙报展示期间现场对所有墙报进行评选，选取部分优秀墙报，并对墙报主讲者颁发 BEST POSTER AWARD。为了达到鼓励新人的目的，凡是展示墙报的在校学生（包括博士和硕士研究生）均有资格获得 BEST POSTER AWARD。如果您是在校学生的话，请在注册的时候领取特殊标记，并粘贴到您的墙报上。

THE SYMPOSIUM PROGRAM (September 18-19)

研讨会时间表 (9月18日-9月19日)

Venue: Wufu Hall, Wangjiang Hotel
会议地点: 五福堂 (望江宾馆)

Sept. 18, Tuesday, Morning, 星期二 上午		Sept. 19, Wednesday, Morning, 星期三 上午	
08:30-08:50	Opening Ceremony (开幕式)	08:30-10:20	Session V
		08:30-09:00	Keynote 09
		09:00-09:20	Oral 07
08:50-10:20	Session I	09:20-09:40	Oral 08
08:50-09:20	Keynote 01	09:40-10:00	Oral 09
09:20-09:50	Keynote 02	10:00-10:20	Oral 10
09:50-10:20	Keynote 03	10:20-10:40	Coffee Break (会间茶歇)
10:20-10:40	Coffee Break (会间茶歇)	10:40-12:10	Session VI
10:40-12:10	Session II	10:40-11:10	Keynote 10
10:40-11:10	Keynote 04	11:10-11:30	Oral 11
11:10-11:40	Keynote 05	11:30-11:50	Oral 12
11:40-12:00	Oral 01	11:50-12:10	Oral 13
12:00-12:20	Oral 02	12:10-12:30	Oral 14
Lunch Time (午餐)			
Sept. 18, Tuesday, Afternoon, 星期二 下午		Sept. 19, Wednesday, Afternoon, 星期三 下午	
14:00-15:50	Session III	14:00-15:50	Session VII
14:00-14:30	Keynote 06	14:00-14:30	Keynote 10
14:30-14:50	Oral 03	14:30-14:50	Oral 15
14:50-15:10	Oral 04	14:50-15:10	Oral 16
15:10-15:30	Oral 05	15:10-15:30	Oral 17
15:30-15:50	Oral 06	15:30-15:50	Oral 18
15:50-16:10	Coffee Break (会间茶歇)	15:50-16:10	Coffee Break (会间茶歇)
16:10-18:20	Session IV	16:10-18:00	Session VIII
16:10-16:40	Keynote 07	16:10-16:40	Keynote 11
16:40-17:10	Keynote 08	16:40-17:00	Oral 19
17:10-18:20	Poster Presentation Session (墙报讲解)	17:00-17:20	Oral 20
		17:20-17:40	Oral 21
		17:40-18:00	Symposium Closing Remarks
Dinner Time (晚餐)		Banquet (晚宴)	
19:30-21:30	Poster Exhibition (墙报展示)		

Venue: Wufu Hall, Wangjiang Hotel
会议地点: 五福堂 (望江宾馆)

9.18 Morning 上午

08:30-08:50	Opening Ceremony (开幕式), Chairperson: Prof. Yu-Zhong WANG		
	Welcome speech from President of Sichuan University (主办单位四川大学校领导致欢迎辞)		
	Welcome speech from Prof. Zheng-Mao ZHOU, the General Secretary of China Flame Retardant Society (中国阻燃学会秘书长周政懋教授致欢迎辞)		
08:50-10:20	Session I	Chairpersons: Prof. Yuan HU; Prof. T. R. HULL	
08:50-09:20	K 1	Fire retardance by surface nanostructuration (表面纳米结构化阻燃)	<u>Prof. G. CAMINO</u> , F. Carosio, J. Alongi, G. Malucelli, A. Frache, A. Fina Politecnico di Torino, Italy
09:20-09:50	K 2	A new look at layered double hydroxides in fire retardancy (层状双氢氧化物在阻燃方面的新看法)	<u>Prof. C. A. WILKIE</u> Marquette University, USA
09:50-10:20	K 3	Coatings for providing low flammability to polymeric materials: an overview (低燃烧性聚合物涂层综述)	<u>Prof. S. BOURBIGOT</u> , M. Jimenez, S. Duquesne Ecole Nationale Supérieure de Chimie de Lille, France
10:20-10:40	Coffee Break (会间茶歇)		

10:40-12:20	Session II Chairpersons: Prof. Rongjie YANG; Prof. C. A. WILKIE			
10:40-11:10	K 4	Gas phase flame retardants – the past or the future? (气相阻燃剂——过去式还是将来式?)	<u>Prof. T. R. HULL</u> , A. A. Stec	University of Central Lancashire, UK
11:10-11:40	K 5	Novel inherent flame retardant TPU/attapulgite nanocomposites via synergistic flame retardant approach (一种本质阻燃 TPU/凹凸棒纳米复合材料的协效阻燃新方法)	<u>Prof. Feng YANG</u> , G. L. Nelson	Florida Inst of Technology, USA
11:40-12:00	O 2	Synthesis of a flame retardant containing phosphorus and sulfur and its application in polycarbonate (含磷、硫阻燃剂的合成及其阻燃 PC 的应用研究)	Wei ZHAO, Miao-Jun XU, <u>Prof. Bin LI</u>	Northeast Forestry Univ, China
12:00-12:20	O 3	Flame retardancy of bio-based polymers (生物基高分子的阻燃)	<u>Dr. M. CASETTA</u> , S. Duquesne, G. Fontaine, S. Bourbigot	Unité Matériaux et Transformations, France
Lunch Time (午餐)				

9.18 Afternoon 下午

14:00-15:50	Session III			Chairpersons: Prof. Tao TANG; Prof. M. DÖRING
14:00-14:30	K 6	Halogen-free flame retardant combinations in polycarbonate/acrylonitrile-butadiene-styrene: possible routes towards a P-P synergy? (用于聚碳酸酯/丙烯腈-丁二烯-苯乙烯的无卤阻燃剂: 可能的 P-P 协同效应?)	<u>Ms. M.-C. DESPINASSE</u> , B. Schartel	BAM, Germany (on behalf of Dr. B. SCHARTEL)
14:30-14:50	O 3	Ignition of polypropylene/montmorillonite nanocomposites (聚丙烯/纳米级蒙脱土复合材料的点燃研究)	<u>Dr. A. FINA</u> , F. Cuttica, J. Feng, G. Camino	Politecnico di Torino, Italy
14:50-15:10	O 4	Microencapsulation of intumescent flame retardant and its application in some polymer (膨胀阻燃剂微胶囊化及其在部分聚合物中的应用)	<u>Prof. Yuan HU</u> , Bi-Bo WANG, Qin-Bo TANG, Lei SONG	Univ. of Science and Technology, China
15:10-15:30	O 5	Improving the flame retardancy of PS/IFR by adding Lewis acid transition metal chlorides (过渡金属氯化物对膨胀阻燃聚苯乙烯体系的协效作用)	Ming-Zhe DONG, Xiao-Yu GU, <u>Prof. Sheng ZHANG</u>	Beijing Univ of Chemical Technology, China
15:30-15:50	O 6	Thermal degradation and flammability of PE/graphite nanoplate composites (PE/石墨纳米板复合材料的热降解性和燃烧性)	<u>Dr. S. M. LOMAKIN</u> , L. A. Novokshonova, P. N. Brevnov, E. V. Koverzanova, S. V. Usachev, O. P. Korobeinichev, A. A. Paletsky, A. G. Tereshenko, M. B. Gonchikzhapov	Emanuel Inst of Biochemical Physics, Russia
15:50-16:10	Coffee Break (会间茶歇)			

16:10-18:20	Session IV					Chairperson: Prof. Sheng ZHANG Prof. C. CAMINO	
16:10-16:40	K 7	Halogen free flame retardants for thermoplastics (热塑性塑料的无卤阻燃剂)		<u>Dr. M. KLATT</u> , K. Stoll		BASF SE, Germany	
16:40-17:10	K 8	Thermal oxidative stability and stabilization of carbon/char (碳/炭层的稳定化及热稳定性)		<u>Dr. K. K. SHEN</u>		FR Consultant, USA	
17:10-18:20	Brief Introduction for Each Poster (1-2 min) (每份墙报的简要介绍, 1-2 分钟)			Poster Expostors (墙报展讲人)			
Dinner Time (晚餐)							
19:30-21:30	Poster Exhibition (墙报展示)						

Venue: Wufu Hall, Wangjiang Hotel
会议地点: 五福堂 (望江宾馆)

9.19 Morning 上午

08:30-10:20	Session V				Chairpersons: Prof. Zheng-Ping FANG; Prof. B. K. KANDOLA
08:30-09:00	K 9	Reactive versus additive phosphorus flame retardants in epoxy resins (反应型和添加型环氧阻燃剂的对比研究)	<u>Prof. M. DÖRING</u>	German Inst for Polymers, Germany	
09:00-09:20	O 7	Investigations of epoxy resins flame retarded by phenyl silsesquioxane of cage and ladder type structures (笼型和梯型苯基硅倍半氧烷阻燃环氧树脂研究)	Wen-Chao ZHANG, <u>Prof. Rong-Jie YANG</u> , Xiang-Mei LI, Yun-Yun JIANG	Beijing Inst of Technology, China	
09:20-09:40	O 8	Novel flame retardant curing agents in the epoxy resin systems (环氧树脂体系中的新型阻燃固化剂)	<u>Ms. Lin ZANG</u> , M. Döring	Karlsruhe Inst of Technology, Germany	
09:40-10:00	O 9	Ammonium polyphosphate encapsulated by inorganic-organic hybrid coating and properties of epoxy resin composites (有机-无机杂化膜对聚磷酸铵的微胶囊化改性以及其在环氧树脂中的性能研究)	<u>Dr. Hong-Qiang QU</u> , Wei-Hong WU, Jian-Wei HAO, Jian-Zhong XU	Hebei University, China	
10:00-10:20	O 10	Halogen-free flame-retardant ABS without red phosphorus (无卤无红磷阻燃 ABS)	<u>Dr. Li CHEN</u> , Rong-Kun JIAN, Yu-Zhong WANG	Sichuan Univ, China	
10:20-10:40	Coffee Break (会间茶歇)				

10:40-12:10	Session VI Chairpersons: Dr K. K. SHEN; Prof. S. BOURBIGOT		
10:40-11:10	K 10	European flame retardancy developments and trends for products in the construction, transportation, E&E, and furniture sectors (欧洲建筑、运输、电子电气及家具产业的阻燃发展趋势)	<u>Dr. J. H. TROITZSCH</u> Fire and Environment Protection Service, USA
11:10-11:30	O 11	Fire toxicity of commercial products (商用产品的火灾毒性)	<u>Dr. A. A. STEC</u> , T. R. Hull University of Central Lancashire, UK
11:30-11:50	O 12	The combustion behavior of rigid polyurethane foam studied by cone calorimeter coupled with Fourier transform infrared spectroscopy (基于锥形量热-傅里叶红外光谱联用仪的硬质聚氨酯泡沫的燃烧行为研究)	<u>Dr. Jun-Sheng WANG</u> , Dan LIU, Guo-Hui WANG, Wei-Ping HAN, Qing-Lin ZHANG Tianjin Fire Research Institute, China
11:50-12:10	O 13	Use of ammonium sulfamate and nanoparticles to flame retard polyamide 6 fibers (氨基磺酸铵与纳米粒子协效阻燃尼龙 6 纤维)	<u>Mr. M. COQUELLE</u> , S. Duquesne, Jun SUN, M. Casetta, Sheng ZHANG, S. Bourbigot Unité Matériaux et Transformations, France
12:10-12:30	O 14	Study on the application of silicon-containing phosphazene as synergist in intumescent flame retarded epoxy resin (含硅磷腈在膨胀阻燃环氧树脂中协效应用研究)	Yi-Fei XU, Wen-Chao ZHANG, Zhao-Lu QIN, Yi ZHANG, <u>Dr. Ding-Hua LI</u> , Rong-Jie YANG Beijing Inst of Technology, China
Lunch Time (午餐)			

9.19 Afternoon 下午

14:00-15:50	Session VII			Chairpersons: Prof. Bin LI; Dr. S. V. LEVCHIK
14:00-14:30	K 11	Thermal insulation of fibre-reinforced epoxy composites using nano/micro particulate flame retardant surface coatings (纳米/微米阻燃涂层处理的玻纤增强环氧树脂复合材料的热阻隔性能研究)	<u>Prof. B. K. KANDOLA</u> , P. Luangtriratana	University of Bolton, UK
14:30-14:50	O 15	Influence of fullerene on the flammability of different polymers studied by microscale combustion calorimetry (富勒烯对不同聚合物在微型量热仪中燃烧行为的影响)	Li-Ping ZHAO, Zheng-Hong GUO, Zhen-Hu GAO, <u>Prof. Zheng-Ping FANG</u>	Zhejiang University, China
14:50-15:10	O 16	Flame retardancy and thermal stability of polypropylene/DOPO immobilized silica nanocomposites (聚丙烯/表面接枝 DOPO 纳米二氧化硅复合材料热稳定能和阻燃性能研究)	Quan-Xiao DONG, Yan-Fen DING, Feng WANG, Bin WEN, Shi-Min ZHANG, <u>Prof. Ming-Shu YANG</u>	Inst. of Chemistry, CAS, China
15:10-15:30	O 17	Flammability characteristics of polypropylene composites blended with dihydrogen phosphate anion-intercalated layered double hydroxides (磷酸二氢根阴离子插层改性水滑石及对聚丙烯阻燃性能的影响)	Xi-Shan LIU, <u>Dr. Xiao-Yu GU</u> , Yu JIANG, Bin ZHAO, Sheng ZHANG	Beijing Univ. of Chemical Technology, China
15:30-15:50	O 18	Effect of nanosized carbon black on thermal stability and flame retardancy of polypropylene/carbon nanotubes nanocomposites (纳米级炭黑对聚丙烯碳纳米管复合材料的热稳定性和阻燃性能的影响)	<u>Dr. Xin WEN</u> , Na-Na TIAN, Zhi LIU, Jiang GONG, Jie LIU, Zhi-Wei JIANG, Tao TANG	Changchun Inst. of Applied Chemistry, CAS, China
15:50-16:10	Coffee Break (会间茶歇)			

16:10-18:00	Session VIII				Chairperson: Prof. Mingshu YANG; Dr. M. KLATT
16:10-16:40	K 12	New developments and trends in phosphorus flame retardants (含磷阻燃剂新的进展及趋势)	<u>Dr. S. V. LEVCHIK</u>	ICL-IP America, USA	
16:40-17:00	O 19	Polysiloxane with triphenylphosphonium phosphate as a novel flame retardant for polycarbonate (一种新型阻燃剂“三苯基磷酸季磷盐聚硅氧烷”阻燃聚碳酸酯)	Zong-Liu TANG, Ya-Nan LI, Yong-Jian ZHANG, <u>Prof. Ping-Kai JIANG</u>	Shanghai Jiaotong Univ., China	
17:00-17:20	O 20	Influence of TPP on degradation and combustion of UHMWPE and HDPE (TPP 对超高分子量聚乙烯和高密度聚乙烯降解行为和燃烧行为的影响)	<u>Prof. O. P. KOROBEINICHEV</u> , A. A. Paletsky, M. B. Gonchikzhapov, I. K. Shundrina, Hai-Xiang CHEN, Nai-An LIU	Inst of Chemical Kinetics and Combustion, Russia	
17:20-17:40	O 21	New class of brominated polymeric flame retardants (新型含溴聚合物阻燃剂)	M. W. Beacha, D. A. Beaudoina, I. Beulichb, T. D. Burnsa, D. B. Gormana, D. C. Gremingera, J. W. Hulla, J. J. Kiefera, B. A. Kinga, S. L. Krama, C. Lukasc, R. B. Lenga, M. Matteuccia, T. A. Morgan, <u>Dr. W. G. STOBBY</u>	The Dow Chemical Company, USA	
17:40-18:00	Symposium Closing Remarks (大会闭幕式)				
Banquet (晚宴)					

Transportation 交通信息

1. From Chengdu Shuangliu International Airport:

(从双流国际机场出发)

- around 60 RMB (10 USD) by taxi;
打车前往, 约需人民币 60 元;
- taking the airport shuttle (Line 303) to Chengdu Southern Railway Station around 10 RMB (2.5 USD), then taking taxi at a cost of around 20 RMB (3.5 USD);
机场出口处乘坐机场大巴 (303 路) 至成都南站 (10 元), 然后打车前往 (约需 20 元);
- taking bus (Line 304) at the airport bus station to the Eastern 5 of Second-Ring Road Station, then taking taxi at a total cost of around 23 RMB (4 USD).
机场公交站乘坐 304 路公交至二环路东五段 (3 元), 然后打车前往 (约需 20 元)。

2. From Chengdu Railway Station:

(从成都火车站出发)

- around 40 RMB (7 USD) by taxi;
打车前往, 约需人民币 40 元;
- taking bus (Line 51) at the Bus Station of Chengdu Railway Station to Liangui Housing Estate Station, then taking taxi at a total cost of around 15 RMB (2 USD)
火车北站公交站乘坐 51 路公交至莲桂小区 (2 元), 然后打车前往 (约 13 元)

3. Most of taxi drivers in Chengdu can't speak fluent English. If you have difficulty to communicate with a taxi driver, please show him the following name and address of the symposium hotel (Wangjiang Hotel) in Chinese Characters:

望江宾馆 成都市下沙河铺 42 号

