2023 年中国科学院“一带一路”暨发展中国家科技培训班“火安全工程材料设计与评价方法”

2023 Scientific and Technological Training Course “Design and Evaluation Methods of Fire Safety Engineering Materials” for Developing Countries in “the Belt and Road”

会议手册

Program Book

安徽 • 合肥

2023 年 12 月 3-16 日

Anhui • Hefei

December 3-16, 2023

主办单位：中国科学技术大学火灾科学国家重点实验室

支持单位：中国科学院国际合作局

Hosted by the State Key Laboratory of Fire Science, University of Science and Technology of China

Funded by the Bureau of International Cooperation, Chinese Academy of Sciences

Introduction

University of Science and Technology of China

Welcome to the University of Science and Technology of China, "the cradle of scientists" in China!

USTC was established by the Chinese Academy of Sciences (CAS) in 1958. Ever since then, it has continuously served the nation as an innovator in quality education and scientific research by focusing on exploring new frontiers in science and nurturing young talents with global perspectives. Now the University is home to 16,245 gifted students and 2,050 dedicated faculty members, and offers customizable programs and exceptional extracurricular activities to all the students.

USTC has made outstanding contributions to the development of Chinese education, and its excellent research facilities create rich opportunities for our future scientists to reach for more. In 1978, USTC set up the first "Special Class for the Gifted Young" and the first graduate school, which were considered the most remarkable achievements in modern Chinese higher education history. USTC is also the only university that operates two national laboratories on campus, the National Synchrotron Radiation Laboratory (NSRL), which is the first national laboratory in China; and the Hefei National Laboratory for Physical Sciences at the Microscale (HFNL), one of the six national research centers approved by the Ministry of Science and Technology

(MOST) of PRC.

USTC has a glorious history in fundamental sciences and research. In the past decade, we have made significant achievements in the fields of quantum physics, nano technology, artificial intelligence (AI), engineering and biomedical sciences. We sent Mozi, the world's first Quantum Communication Satellite, and Wukong, the China's first Dark Matter Particle Explorer, into the space. In 2020, we developed the "USTC protocol" to treat COVID-19 patients, which has been widely introduced to more than 20 countries.

USTC provides a wide range of opportunities to help students develop a global perspective and cultural sensitivity, and has earned its international reputation by collaborating with more than 210 top universities and research organizations all over the world. In the Nature Index 2020, USTC was ranked Top 4 on academic in the global universities and Top 1 in China; in the U.S. News Rankings 2020, the 3rd place of the best global universities in China.

Introduction

State Key Laboratory of Fire Science

Welcome to The State Key Laboratory of Fire Science (SKLFS), located in China University of Science and Technology, which is in Hefei, Anhui Province, P. R. China. The State Key Laboratories (SKLs) is a list of university laboratories receiving funding and administrative support by the central government of the People's Republic of China. Nearly 300 SKLs have been set up since 1990s, and all the laboratories are managed by the Ministry of Science and Technology of China (MOST). SKLs are regarded as key components of China's science and technology research system. They serve as the base for top-level basic research and applied basic research development, assembling and nurturing outstanding researchers, as well as scholarly exchanges for the country. Generally, each SKLFS specializes in one particular area of academic interest. SKLFS is the only national research institution in the field of fire science in China.

SKLFS conducts frontier basic and interdisciplinary researches that combine state-of-the-art knowledge and approaches of chemistry, physics, mechanics, thermo-physics (heat transfer, combustion, etc.), information science, computer science, electronics, automation and material science to investigate fire dynamics and basic principles of fire safety technologies. The mission of SKLFS is to study fire dynamics & key technologies of fire safety, train qualified personnel and endeavor to cater for the growing national demand in fire science research and make fundamental, strategic and forward-looking contributions to the national fire safety. SKLFS pursues to keep itself at the very forefront of fire science discovery and engineering excellence. SKLFS achieves this mission through a strong linkage between basic research and applied research and engineering. SKLFS has also been designed to serve as a national knowledge resource, as well as provide a world renowned resource for training researchers in the field of fire science and fire safety engineering. SKLFS tries to strengthen Chinese scientific foundations for fundamental fire research and fire safety innovation.

SKLFS has three major research directions: 1) Fire Dynamics; 2) Key technology of fire prevention; 3) Theory and methodology of fire safety engineering. In recent years, SKLFS has extended its directions to cover the fire safety relevant public safety topics such as emergency planning, emergency decision-making and human evacuation. In the coming ten years of 2012-2021, several important research topics of SKLFS will be 1) Fire safety of urban public service buildings and building complex; 2) Fire safety in navigation, spaceflight and plateau atmosphere; 3) Fire safety in use of new energy (such as hydrogen energy and Lithium-ion battery); 4) Wildland and urban interface fires; 5) Evolution of multiple urban disasters (including fire) with their prevention and protection.

SKLFS is composed of eight research divisions which include the Building Fire Division, the Wildland & Urban Fire Division, the Industrial Fire Division, the Fire Risk Assessment Division, the Fire Chemistry Division, the Fire Detection Division, the Fire Suppression Division and the Computer Modeling Division. A specific branch of technicians supervises the experimental equipments and devices. SKLFS also publishes a journal named “Fire Safety Science”. Currently SKLFS has 49 researchers including 30 professors and 19 associate professors, 8 technicians and 5 administrative staffs.

Content

1. Welcome Message

Dear Colleagues,

On behalf of the organization committee of 2023 Scientific and Technological Training Course (STTC2023) for Developing Countries in "the Belt and Road", it gives us great pleasure to invite you to attend this training course to be held on December 3-16, 2023, in Hefei, China.

STTC2023, organized by the State Key Laboratory of Fire Science (SKLFS), University of Science and Technology of China (USTC), aims at establishing a platform for exchanging and sharing fundamental theories and recent research achievements in the field of design and evaluation methods of fire safety engineering materials, in the hope of mutual inspiration and progress. We acknowledge the Bureau of International Cooperation, Chinese Academy of Sciences for the fund support.

This training course program consists of 12 lectures, 5 experimental practices, 4 visiting activities and 1 brainstorming discussion.

Looking forward to your participation and we are pleased to welcome you to Hefei to attend STTC2023.

Sincerely,

Prof. Dr. Yuan Hu

STTC2023, Chairman

2. Organization Committee

Chairman	Yuan Hu
Secretary General	Xin Wang Bin Yu Wen-Ru Zeng
Members (Sort alphabetically according to family names)	Fu-Kai Chu Zhou Gui Wei-Zhao Hu Yong-Chun Kan Lei Song Bi-Bo Wang Wei-Yi Xing Ji-Xin Zhu

3. Notice on the Opening of the Scientific and Technological Training Course

The scientific and technological training course “Design and evaluation methods of fire safety engineering materials” for Developing Countries in “the Belt and Road” will be hosted by the State Key Laboratory of Fire Science, University of Science and Technology of China, and funded by the Bureau of International Cooperation, Chinese Academy of Sciences.

The theme of this training project is to transfer basic knowledge and research results regarding fire safety engineering materials to researchers engaged in public safety or material science research in developing countries alongside the “Belt and Road”. This training project is taught in English throughout the entire process, and renowned experts from both domestic and foreign countries in this field are invited to give professional lectures.

Training time: December 3-16, 2023

Location: Report Hall, 2nd Floor, Fire Special Experimental Building, West Campus, University of Science and Technology of China, Hefei City, Anhui Province

Main content: Introduction to research achievements of the State Key Laboratory of Fire Science, types and pyrolysis mechanism of polymer

materials, typical flame retardants (halogenated, phosphorus-containing, and intumescent flame retardants) and their flame retardant mechanisms, typical flame retardant testing methods of polymer materials, polymer fire safety design principles based on nanocomposite technology, lithium-ion battery safety assurance technology, processing technology of flame retardant polymer materials, visits and communications with research institutions and processing enterprises for fire safety engineering materials, etc.

State Key Laboratory of Fire Science

University of Science and Technology of China

4. Curriculum

Date	Time	Activities	Host/Lecturer
December 3, Sunday	9:00-21:00	Registration, and arrangement of accommodation	Zeng Wen-Ru, Lecturer, SKLFS, USTC, China
December 4, Monday	9:00-12:00	**Experimental Practice 1:** Laboratory Safety Training	Wang Bi-Bo, Associate Professor, SKLFS, USTC, China
	14:30-17:30	**Visiting Activity 1:** Visiting the State Key Laboratory of Fire Science (SKLFS) on campus	Chu Fu-Kai, Postdoc, SKLFS, USTC, China
December 5, Tuesday	9:00-12:00	1. Opening Ceremony 2. Self-introduction of each trainee (5 minutes) 3. Special report: Introduction to the SKLFS and fire chemistry research group	Hu Yuan, Professor, SKLFS, USTC, China
	14:30-17:30	**Lecture Course 1:** Types and Pyrolysis Mechanisms of Polymer Materials	Yu Bin, Professor, SKLFS, USTC, China
December 6, Wednesday	9:00-12:00	**Lecture Course 2:** Halogenated flame retardants and their flame retardant mechanisms	Kan Yong-Chun, Associate Professor, SKLFS, USTC, China
	14:30-17:30	**Lecture Course 3:** Intumescent flame retardants and their flame retardant mechanisms	Wang Bi-Bo, Associate Professor, SKLFS, USTC, China
December 7, Thursday	9:00-12:00	**Lecture Course 4:** Typical flame retardant testing methods for polymer materials	Wang Xin, Associate Professor, SKLFS, USTC, China

	14:30-17:30	**Experimental Practice 2:** 1. Test method for combustion performance of materials - ignition and self-extinguishing tests (oxygen index test) 2. Flame propagation performance and testing (horizontal and vertical combustion chamber)	Wang Xin, Associate Professor, SKLFS, USTC, China
December 8, Friday	9:00-12:00	**Lecture Course 5:** Phosphorus-containing flame retardants and their flame retardant mechanisms	Manfred Döring, Professor, Schill+Seilacher Struktol Management AG, Switzerland
	14:30-17:30	**Lecture Course 6:** Principles of polymer fire safety design based on nanocomposite technology	Xing Wei-Yi, Associate Professor, SKLFS, USTC, China
December 9, Saturday	9:00-12:00	**Visiting Activity 2:** Visit the high tech campus and advanced technology research institute of the University of Science and Technology of China	Chu Fu-Kai, Postdoc, SKLFS, USTC, China
	14:30-17:30	**Visiting Activity 3:** Visit Public Safety Research Institutions at Hefei	Chu Fu-Kai, Postdoc, SKLFS, USTC, China
December 10, Sunday	**Day Off**		
December 11, Monday	9:00-12:00	**Lecture Course 7:** Evaluation standards and testing methods for combustion performance and smoke toxicity of polymer materials	Hu Wei-Zhao, Associate Professor, SKLFS, USTC, China

	14:30-17:30	**Experimental Practice 3:** 1. Heat release rate and testing, flame penetration and testing (Cone Calorimetry) 2. Methods for testing the combustion performance of materials - smoke density and testing, toxicity and corrosive gas testing (SSTF)	Hu Wei-Zhao, Associate Professor, SKLFS, USTC, China
December 12, Tuesday	9:00-12:00	**Lecture Course 8:** Machine learning assisted modelling approaches for lithium-ion battery and design of thermal management systems	Richard K. K. Yuen, Professor, City University of Hong Kong, Hong Kong, China
	14:30-17:30	**Lecture Course 9:** Implementing Molecular Dynamics Simulation Data Coupled with CFD to Enhance Building Materials Fire Resilience	Anthony Chun Yin Yuen, Associate Professor, Hong Kong Polytechnic University, Hong Kong, China
December 13, Wednesday	9:00-12:00	**Lecture Course 10:** Safety protection technology for lithium-ion batteries	Zhu Ji-Xin, Professor, SKLFS, USTC, China
	14:30-17:30	**Experimental Practice 4:** Processing technology of flame retardant polymer materials (Internal mixing, compression molding, etc.)	Yu Bin, Professor, SKLFS, USTC, China
December 14, Thursday	9:00-12:00	**Lecture Course 11:** Syntheses and Applications of Flame Retardants on polylactide	Fei Bin, Professor, Hong Kong Polytechnic University, Hong Kong, China

	14:30-17:30	Brainstorming (Free Discussion Session)	Kan Yong-Chun, Associate Professor, SKLFS, USTC, China
December 15, Friday	9:00-12:00	**Visiting Activity 4:** Visit Anhui Provincial Museum	Chu Fu-Kai, Postdoc, SKLFS, USTC, China
	14:30-17:30	**Lecture Course 12:** Flame retardant technology and application of fiber reinforced polymer composite materials	Baljinder Kandola, Professor, University of Bolton, UK
December 16, Saturday	9:00-12:00	**Experimental Practice 5:** Visiting fire safety engineering material processing enterprises	Xing Wei-Yi, Associate Professor, SKLFS, USTC, China
	14:30-17:30	1. Training course summary 2. Closing ceremony 3. Issuance of certificates for trainees	Hu Yuan, Professor, SKLFS, USTC, China
	18:00-20:00	Farewell Banquet	Hu Yuan, Professor, SKLFS, USTC, China

5. Invited Speakers

Yuan Hu, Professor, is the Director of the Institute of Fire-Safe Materials, University of Science and Technology of China (USTC). He obtained his PhD from USTC in 1997. Prof. Hu has done research on fire-safe materials for more than 30 years. His main research areas include polymer/inorganic compound nanocomposites, new flame retardants and their flame retardant polymers, synthesis and properties of inorganic nanomaterials, combustion, and decomposition mechanism of polymers. Prof. Hu has published more than 600 SCI papers (citations 30000, H index = 98) in research areas covering the range of fire safety of polymer materials and has obtained over 70 invention patents. He was also awarded the 2nd Prize of the National Natural Science Award by Chinese Government (2017).

Prof. Dr. **Ji-Xin Zhu** joined University of Science and Technology of China in 2022. He obtained his PhD degree from Nanyang Technological University, Singapore in 2012. After graduation, he continued his research work in Nanyang Technological University, Rice University, Max Plank Institute of Colloids and Interfaces as Postdoctoral fellow from 2012 to 2015 and Nanjing Tech University as a full professor (2016). Dr. Zhu focuses on lithium ions batteries energy storage and fire safety, flexible safety electronics and smart device. He has published over 100 SCI papers on J. Am. Chem. Soc., Angew. Chem. Int. Ed., Nano Lett., Nat. Commun., etc with over 15000 citations and H-index 69. He was selected as Fellow of the Royal Society of Chemistry and Clarivate “Highly Cited Researcher”.

Bin Yu is a full professor of the University of Science and Technology of China (USTC). He received his Ph.D. in safety science and engineering in 2016 at USTC. Then, he respectively worked as a research fellow in the Hong Kong Polytechnic University (2016-2017), a Research Associate in the City University of Hong Kong (2017-2019), and a Research Fellow in the University of Southern Queensland (2019-2021). His research interests focus on flame-retardant polymeric materials, high-performance nanocomposites, and sustainable flame-retardant systems. To date, he has published over 100 papers in the peer-reviewed international journals, e.g., Prog. Mater. Sci., ACS Nano, Adv. Sci., Small Struct., Nano-Micro Lett., and four book chapters. These publications have received total citations of over 12000 and H-index of 64. He served as an associate editor and/or editorial board members of several SCI journals including Frontiers in Materials, Nano-Micro Letters and Polymers.

Wei-Yi Xing, Associate Professor at the University of Science and Technology of China. The research focuses on the study of safety functional materials and their properties. He has successively presided over more than 10 national, provincial and ministerial level projects, such as national key research and development projects, National Natural Science Foundation General Fund, Youth Fund, Postdoctoral Special Fund, Anhui Provincial Natural Science Foundation, and was selected as a member of the Youth Promotion Association of the Chinese Academy of Sciences (2019), and the Leading Talent Training Program of the University of Science and Technology of China (2019). Has won the first prize for teaching achievements in Anhui Province in 2019 and 2021. So far, more than 100 papers have been published, including more than 70 papers indexed by SCI as the first/corresponding author, and more than 10 authorized invention patents.

Xin Wang is Associate Professor at the University of Science and Technology of China (USTC). He completed his PhD in Safety Science and Engineering from USTC in 2013. His research interests focus on synthesis and application of bio-based flame retardants and preparation of layered nanomaterials and their use in fire-safe polymer composites. He has authored or co-authored more than 180 SCI-indexed papers in peer-reviewed international journals (citations ≥10000, H index = 61), 6 book chapters and 3 monographs in this field. He was awarded the 2nd Prize of the National Natural Science Award by Chinese Government in 2017. He was selected as the Fellow of the International Association of Advanced Materials (IAAM) (2022) and Elsevier "Most Cited Chinese Researcher" (2021, 2022).

Bi-Bo Wang is an associate professor at the State Key Laboratory of Fire Science at the University of Science and Technology of China. He earned his degree in Safety Science and Engineering from the University of Science and Technology of China in 2012. From 2012 to 2015, he worked as a postdoctoral researcher at the same university. Since 2015, he has been a member of the State Key Laboratory of Fire Science, where he serves as a special associate researcher and associate professor. Wang's research focuses on the surface modification and microencapsulation technology of flame retardants, electron beam irradiation cross-linked flame retardant cables, aging performance, durability testing, and evaluation of flame retardant materials. Over the past ten years, he has published more than 50 papers in international authoritative journals. Wang has received over 5,000 citations and has an h-index of 44.

Wei-Zhao Hu is currently an associate professor at the State Key Laboratory of Fire Science, University of Science and Technology of China. His research focuses on flame retardant polymeric materials, high-performance polymer (nano)composites and catalytic nanocomposites. To date, he has published over 80 papers (5 ESI highly cited papers) in the peer-reviewed international journals, which have received total citations of >2700, with an H index of 31. He served as a reviewer for Journal of Materials Chemistry A, Chemical Engineering Journal, Journal of Hazardous Materials, Composites Science and Technology, Composites Part A, etc. As only one chief investigator, he has secured National Key Research and Development Program of China, two project funded by National Natural Science Foundation of China and another two projects (National Key Research and Development Program of China) as one of chief investigators.

Yong-Chun Kan, an associate professor at the University of Science and Technology of China. He was selected for an exchange program at Argonne National Laboratory in the United States from 2012 to 2014. He earned his PhD from USTC in 2015. His research primarily focuses on thermal safety materials for lithium batteries, environmentally friendly fire-resistant coatings, and the assessment of material safety performance under extreme conditions. He has led several projects, including the National Natural Science Foundation Youth Program, sub-projects of the National Key Research and Development Program. He has published over 60 SCI-listed articles in journals such as Advanced Functional Materials, Energy Storage Materials, and Nano Letters, and has been granted 12 invention patents.

Professor **Manfred Paul Kurt Döring** obtained his PhD degree from the University of Jena in Germany. He is currently serving as a member of the Advisory Committee for Schill+Seilacher GmbH and Schill+Seilacher Strukto GmbH, and the former Director of the Polymer Synthesis Department at the Fraunhofer Institute for Structural Durability and System Reliability in Germany. His research interests mainly focus on synthesis and technical chemistry, polymer flame retardancy, green chemistry, etc. He has led multiple scientific projects funded and supported by the German government and companies such as Airbus, BASF, and Audi. He has published over 150 peer-reviewed papers and authorized over 80 patents. He has been invited to participate in international flame retardant conferences and give more than 20 plenary/keynote presentations. Currently, he is also serving as editorial board members of more than ten international journals.

Baljinder Kandola is Professor of Materials Fire Science at the University of Bolton, UK. Her research area is fire retardancy of materials ranging from natural and synthetic fibres, textiles, polymers to glass/carbon fibre-reinforced composites. Main activities involve incorporation of reactive components or additives into polymers by melt blending, in-situ polymerisation or as surface treatments and the study of the combustion behaviour of modified polymers. Her other interest is to study the effects of different treatments on residual mechanical properties of heat/fire exposed composites. She has published over 220 articles in academic journals and written chapters in a number of books.

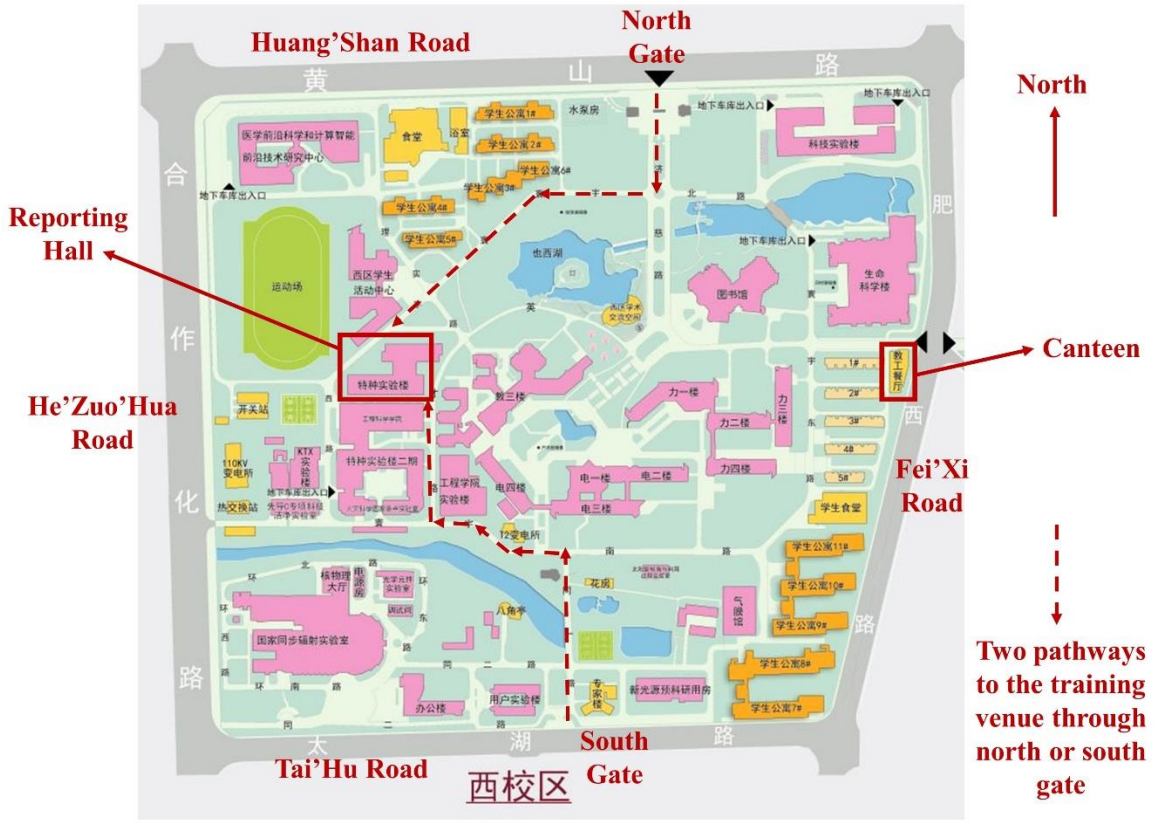
Prof. **Richard Kwok Kit Yuen** obtained his first degree in Mechanical Engineering at the University of Hong Kong and his PhD in Fire Dynamics and Engineering from the School of Mechanical and Manufacturing Engineering, University of New South Wales, Australia. He is currently the Chair Professor of Architectural Engineering at City University of Hong Kong. His research interests/areas include fire safety and engineering, pyrolysis and combustion, applications of computational fluid dynamics (CFD), nanocomposite flame-retardant materials, etc. Prof. Yuen has over 250 publications including international journal articles, conference papers and research reports, etc. He has also been actively serving in various government and public boards and committees including the members of Examination Board for Lift and Escalator Engineers of Electrical and Mechanical Services Department (1999-present), Fire Safety Vetting Committee (2007-2013), etc.

Dr **Anthony Chun Yin Yuen** is a newly appointed Associate Professor (Presidential Young Scholar) at the Hong Kong Polytechnic University. His research focuses on the development of computational material science modelling techniques to deliver in-depth characterisations of the atomistic physiochemical behaviours of nanocomposites such as interfacial and surface science reactions between molecules. Recently, Dr Yuen combines his expertise in material science, molecular dynamics and fire field modelling to formulate a systematic, state-of-art fire assessment platform to effectively and physically described the flaming and degradation processes, thermal/electrical conductivities, charring and self-extinction behaviours of advanced polymer composites. As of May 2023, Dr Yuen has published >125 journal articles, 2 book chapters and >20 conference papers and has>4,000 total citations. His H-Index is 35 in Google Scholar, 27 in Web of Science, 30 in Scopus.

Prof. **Bin Fei** obtained BSc (1996) from the University of Science & Technology of China and PhD (2003) from the Changchun Institute of Applied Chemistry, Chinese Academy of Sciences. After postdoctoral researches, he joined ITC of PolyU in 2010, and became Associate Professor in 2016. His current research interests fall in functional fashion and smart yarn, regenerative biomaterial and green nanotechnology, biomimic catalysis and sustainable energy. His teaching subjects involve “Sustainability in Fashion & Textiles” and “Quality Evaluation of Fashion & Textiles” for undergraduate students, 'Research Methodology' and 'Biomimicry in Fashion' for Master and PhD students. (All discussions on learning & teaching issues are welcome at office ST740)

6. Training course venue

Campus Map



Map (From Hotel to Campus)

North

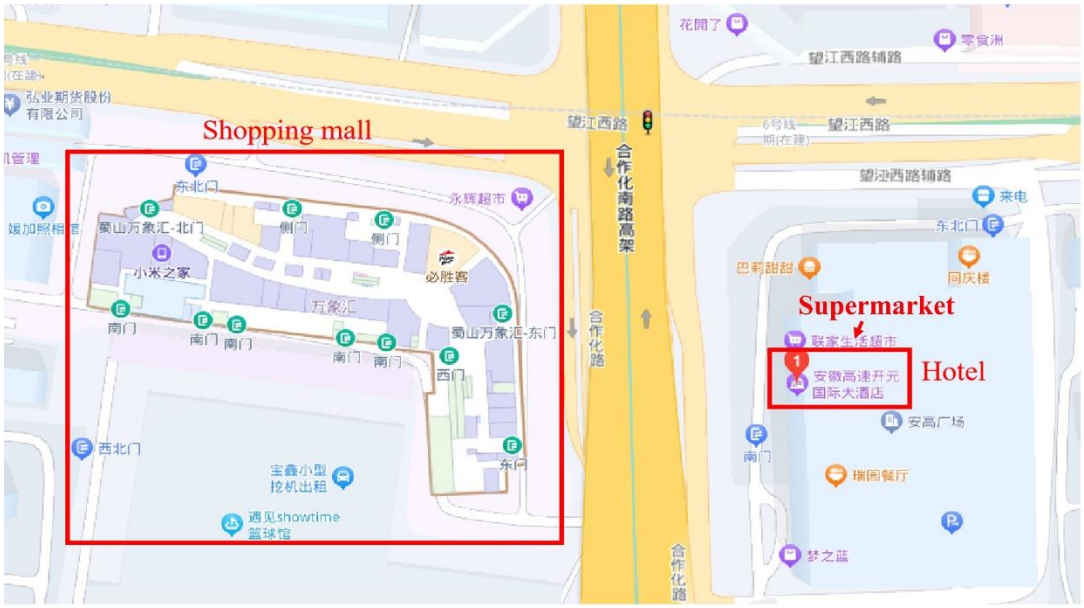
15 minutes by walk from hotel to the south gate of campus (approx. 1.2 km); 5 minutes by taxi from hotel to the south gate of campus (approx. 10 yuan)

Hefei Metro Lines

7. Accommodation

Gaosu New Century International Hotel Anhui

安徽高速开元国际大酒店



Address: No. 88, Hezuo Hua South Road, Shushan District, Hefei City, Anhui Province

地址：安徽省合肥市蜀山区合作化南路 88 号

电话：+86-551-65189888

Tel: +86-551-65189888

How to Arrive?

	40 km from the airport 距离飞机场 40 公里	14 km from Hefei Railway Station 距离合肥站 14 公里	8 km from Hefei South Railway Station 距离合肥南站 8 公里
By airport shuttle bus 乘机场巴士	Take the Airport Limousine Bus Line 1 --Daximen bus stop（34 minutes, about 25 yuan）--Take a taxi to arrive（about 19 yuan) 乘机场巴士一号线--大西门公交站（34min，25 元--转的士到达（约 19 元）		
By bus 乘公交车		Walk to Station square bus stop--Take Bus 111 to get off at Bearing factory West Station --Walk for 6 minutes to the hotel 步行至站前广场公交站--乘 111 公交车--轴承厂西站下车--步行 6 分钟到达酒店	Walk to Hefei South Railway Station North Square bus stop --Take Bus 16 to get off at Bearing factory North Station --Walk for 5 minutes to the hotel 步行至合肥南站北广场公交站--乘 16 路公交车--轴承厂北站下车--步行 5 分钟到达酒店
By metro 乘地铁		Take Metro Line 3 to get off at HONGGANG Station--Exit C--Walk to Xinwanghuafujunyun bus stop--Take Bus 136 to get off at Bearing factory North Station--Walk for 5 minutes to the hotel 乘坐地铁 3 号线至洪岗站--C 口出站--步行至信旺华府骏菀公交站--乘 136 路公交车--轴承厂北站下车--步行 5 分钟到达酒店	Take Metro Line 4 to get off at YAOGONGMIAO Station--Exit B--Walk to Yaogongmiao bus stop --Take Bus 12 to get off at Bearing factory South Station--Walk for 1 minutes to the hotel 乘坐地铁 4 号线至姚公庙站--B 口出站--步行至姚公庙公交站--乘 12 路公交车--轴承厂南站下车--步行 1 分钟到达酒店

By taxi 乘的士	About 50 minutes, about 120 yuan 约 50 分钟，约 120 元	About 25 minutes, about 34 yuan 约 25 分钟，约 34 元	About 18 minutes, about 22 yuan 约 18 分钟，约 22 元

8. Contact Information

State Key Laboratory of Fire Science, USTC Room407/309B, Special Experimental Building West Campus, USTC **Professor Dr. HU Yuan** yuanhu@ustc.edu.cn Tel: +86-551-63601664 Mobile: +86-13705511112 **Professor Dr. YU Bin** yubin@ustc.edu.cn Tel: +86-551-63602353 Mobile: +86-13856015179	**State Key Laboratory of Fire Science, USTC** Room 316/311, Research Building West Campus, USTC **Associate Professor Dr. WANG Xin** wxcmx@ustc.edu.cn Tel: +86-551-63600269 Mobile: +86-15955160883 **Dr. ZENG Wen-Ru** wrzeng@ustc.edu.cn Tel: +86-551-63606064 Mobile: +86-13955159210

Volunteers

Name	Mobile	Date
YU Heng 于恒	17325571370	General Coordinator
WANG Yi-Sha 王一莎	15055753044	Coordinator
ZHANG Hong-Jie 张红杰	17325571370	Coordinator
LI Wan-Qing 李婉晴	18726760106	Dec 4, 2023 Dec 11, 2023
CHEN Liang 陈亮	18867865736	
YANG Liu 杨柳	19955526065	Dec 5, 2023 Dec 12, 2023
XIAO Ze-Tao 肖泽涛	17704463061	
GUO Wen-Yue 郭文月	15303551018	Dec 6, 2023 Dec 13, 2023
LIN Bi-Cheng 林必成	13116620790	
YU Song-Yang 于松洋	15561931101	Dec 7, 2023 Dec 14, 2023
CHEN Yi-Ni 陈旖旎	13177289300	

FENG Ze-Fan 冯泽帆	15732193440	Dec 8, 2023 Dec 15, 2023
YANG Tian-Mo 杨田墨	15032102196	
SANG Yan-Xiang 桑言祥	15856492192	Dec 9, 2023 Dec 16, 2023
LI Jia-Jun 李家峻	18623110935	

Emergence contact:

Police: 110	**Fire: 119**	**Ambulance: 120**