



ACF2022_ETSL

The 4th Asian Concrete Federation Symposium on
Emerging Technologies for Structural Longevity



CONFERENCE MANUAL

Shenzhen, CHINA
27~29 November, 2022

ACF2022_ETSL

Emerging Technologies for Structural Longevity

4th Asian Concrete Federation Symposium on

Introduction 1

Program at a glance 2

Registration & Accommodation 3

International Scientific Committee 4

International Organizing Committee 6

Keynote Speakers 7

***fib* MC2020 Workshop** 9

Program of *fib* MC2020 Workshop 10

Organizer



Asian Concrete Federation

Co-Organizers



深圳大学
SHENZHEN UNIVERSITY



THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大学

Supporting Organizations

- China Civil Engineering Society
- Japan Society of Civil Engineers
- The International Federation for Structural Concrete
- International Union of Laboratories and Experts in Construction Material Systems and Structures
- American Concrete Institute
- Japan Concrete Institute
- Korea Concrete Institute
- Guangdong Key Laboratory of Durability in Marine Civil Engineering
- Shenzhen Key Laboratory of Durability in Civil Engineering

Introduction

Between 27 and 29 November 2022, the 4th Asian Concrete Federation Symposium on Emerging Technologies for Structural Longevity (ACF2022_ETSL) will be held in Shenzhen, China. On behalf of the International Scientific Committee and the International Organizing Committee of this symposium, we would like to thank you for your active participation and valuable contribution.

As one of the largest concrete symposiums in Asia, it is our great privilege to jointly host this event with the College of Civil and Transportation of Shenzhen University and the Department of Civil and Environmental Engineering of Hong Kong and Polytechnic University. We are honored to announce that there are 10 distinguished academic professors and industry professionals will present as keynote speakers at this symposium. The International Scientific Committee has received more than 200 submissions from 10 countries. Among these, over 150 submissions have been accepted and will present at this symposium. 14 parallel special sessions with different topics will be hosted simultaneously during the conference. In addition to this symposium, *fib* MC2020 workshop will be held online and free for all participants.

We sincerely hope that the successful hosting of this symposium could contribute to the sustainable development of concrete structures and promote the international collaboration of all aspects in this field. The organizers of the 4th Asian Concrete Federation Symposium look forward to welcoming you in Shenzhen, China!

● Program at a glance ●

Nov.26 2022	13:00-22:00	Registration
Nov.27 2022	08:20-08:35	Opening Ceremony
	08:35-09:45	Keynote Session 1
	09:45-10:15	Group Photo
	10:15-12:00	Keynote Session 2
	12:00-14:00	Buffet Lunch
	14:00-18:00	Parallel Sessions
	19:00-20:00	Banquet
Nov.28 2022	08:00-12:30	Parallel Sessions
	12:30-14:00	Buffet Lunch
	14:00-17:15	Keynote Session 3&4
	17:15-17:30	Closing Session
Nov.29 2022	15:00-20:10	<i>fib</i> MC2020 Workshop

Guidelines for Speakers

- The presentation document should be prepared in English.
- For keynote session speakers, presentation slots will be 35 minutes, with 3-5 minutes for questions and answers. Please prepare the slides in 16:9 format.
- For parallel session speakers, presentation slots will be 15 minutes, with 2-3 minutes for questions and answers. Please prepare the slides in 4:3 format.
- The detailed ACF 2022 symposium program and planner will be announced soon.

Registration & Accommodation

Registration

Type	Full Registration	Student Registration*
Fee	\$400 or ¥2500	\$200 or ¥1250

Full Registration includes: Participation in the symposium, Welcome reception, Banquet, Lunches, Coffee breaks

Student Registration includes: *Participation in the symposium, Lunches, Coffee breaks

All Speakers should register by the due date to have their accepted abstracts included in the online proceedings and scheduled for presentation.

ACCOMMODATION

Shenzhen Hyde Hotel (深圳海德酒店)

Address: China, Guangdong, Shenzhen, Nanshan District, No. 3368 Hou Binhai Road, East Block 13F, Peng Runda Plaza

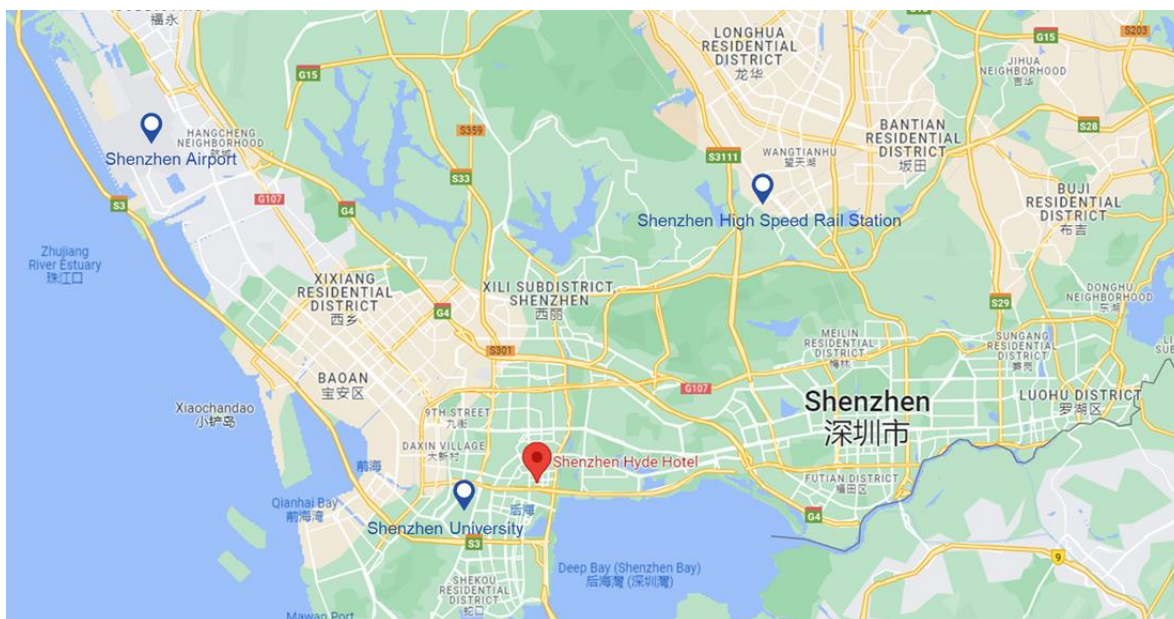
Contact: Ms. Qian Wang

Booking Hotline: +86 18938092228/+86 13414462256

Reception: +86 755 86929999

Please indicate the Special Code (ACF2022) when you make your reservation.

Type	Before 16 th November 2022	After 16 th November 2022
King Bed Room	¥558	¥618
Twin Bed Room	¥588	¥648



● International Scientific Committee ●

Chairs

Prof. Jian-Guo NIE, Tsinghua University

Prof. Tamon UEDA, Shenzhen University

Prof. Chang-Wen MIAO, Southeast University

Members

Prof. Narantuya BATMUNKH, Mongolian Concrete Association

Prof. Yin-Wen CHAN, Taiwan Concrete Institute Taiwan National University

Prof. Dong-Uk CHOI, Korea Concrete Institute Hankyong National University

Prof. Bahador Sabet DIVSHOLI, Singapore Concrete Institute

Prof. Bi-Qin DONG, Shenzhen University

Prof. Vyatcheslav R. FALIKMAN, Association for Structural Concrete (Russia)

Prof. Xiang-Lin GU, Tongji University

Prof. Vinay GUPTA, Indian Concrete Institute

Prof. Le-Quang HUNG, Vietnam Concrete Association

Prof. Jin-Yang JIANG, Southeast University

Prof. Zheng-Wu JIANG, Tongji University

Prof. Thomas KANG, Seoul National University

Prof. Jin-Man KIM, Kongju National University

Prof. Shi-Cong KOU, Shenzhen University

Prof. Christopher LEUNG, Hong Kong University of Science and Technology

Prof. Hui LI, Harbin Institute of Technology

Prof. Ke-Fei LI, Tsinghua University

Prof. Yue LI, Beijing University of Technology

Prof. Zong-Jin LI, University of Macau

Prof. Wu-Jian LONG, Shenzhen University

Prof. Benjamin LUMANTARNA, Indonesian Society of Civil and Structural Engineers

Prof. Guo-Wei MA, Hebei University of Technology

Prof. David MILLAR, Concrete Institute of Australia

Prof. Di-Tao NIU, Xi'an University of Architecture and Technology

Prof. Takafumi NOGUCHI, Japan Concrete Institute, The University of Tokyo

Prof. Thanakorn PHEERAPHAN, Thailand Concrete Association

Prof. Chi Sun POON, Hong Kong Polytechnic University

Prof. Chun-Xiang QIAN, Southeast University
Prof. Jue-Shi QIAN, Chongqing University
Prof. R. RADHAKRISHNAN, Indian Concrete Institute
Prof. Cai-Jun SHI, Hunan University
Prof. Somnuk TANGTERMSIRIKUL, Thailand Concrete Association
Prof. TAVIO TAVIO, Institut Teknologi Sepuluh Nopember
Prof. Le Trung THANH, Vietnam Concrete Association Vietnam Institute for Building Materials
Prof. Fa-Zhou WANG, Wuhan University of Technology
Prof. Bo WU, Guangzhou University
Prof. Jian-Zhuang XIAO, Tongji University
Prof. Feng XING, Shenzhen University
Prof. Li-Hua XU, Wuhan University
Prof. Duinkherjav YAGAANBUYANT, Mongolian Concrete Association
Prof. Hiroshi YOKOTA, Japan Concrete Institute Hokkaido University
Prof. Qi-Jun YU, Hefei University of Technology
Prof. Zhi-Wu YU, Central South University
Prof. Yun-Sheng ZHANG, Lanzhou University of Technology
Prof. Yu-Xi ZHAO, Zhejiang University
Prof. Ying-Wu ZHOU, Shenzhen University
Prof. Ji-Hua ZHU, Shenzhen University

● International Organizing Committee ●

Chair

Prof. Feng XING, Shenzhen University

Co-chairs

Prof. Jian-Guo DAI, The Hong Kong Polytechnic University

Prof. Ji-Hua ZHU, Shenzhen University

Members

Ms. Di CUI, Shenzhen University

Dr. Bo-Tao HUANG, The Hong Kong Polytechnic University

Dr. Ming-Feng KAI, The Hong Kong Polytechnic University

Dr. Mehran KHAN, The Hong Kong Polytechnic University

Dr. Le-Yang LV, Shenzhen University

Dr. Chun PEI, Shenzhen University

Dr. Jun WANG, Shenzhen University

Dr. Ling-Yu XU, The Hong Kong Polytechnic University

Ms. Yi-Hua YANG, Shenzhen University

Keynote Speakers

(Listed by name initials)



Dr. Akio Kasuga

President of The International
Federation for Structural Concrete(*fib*)
Executive Vice President, CTO,
Sumitomo Mitsui Construction, Japan



Prof. Sylvia Keßler

Helmut Schmidt University,
Germany



Prof. Jie Li

Academician of Chinese Academy of
Sciences
Tongji University, China



Prof. Zong-Jin Li

Institute of Applied Physics and Materials
Engineering
University of Macau, China



Prof. Chang-Wen MIAO

Academician of Chinese Academy of
Engineering
Southeast University, China



Prof. Jin-Ping OU

Academician of Chinese Academy of
Engineering
Harbin Institute of Technology
(Shenzhen) , China



Prof. Hong-Gun PARK

President of Korea Concrete Institute,
Korea



Prof. Jin-Guang TENG

Academician of Chinese Academy of
Sciences
The Hong Kong Polytechnic University,
Hong Kong, China



Prof. Shi-Lang XU

Academician of Chinese Academy of
Sciences
Zhejiang University, China



Prof. Feng XING

Shenzhen University, China

● ***fib* MC2020 Workshop** ●

(Listed by name initials)



**Prof. Carmen
ANDRADE**
Instituto Eduardo
Torroja,
Spain



**Dr. Gerrie
DIETEREN**
TNO,
Netherlands



Dr. Akio Kasuga
fib President,
Japan



Prof. Ke-Fei LI
Tsinghua
University,
China



Prof. Xi-Lin LV
Tongji University,
China



Dr. Stuart MATTHEWS
Chair of TG10.1
Model Code 2020,
Britain



Prof. Tamon UEDA
Shenzhen University,
China

The International Federation of Structural Concrete (*fib*) publishes the International Code for Structural Concrete, a model for national/regional code and a document that provides advanced information to engineers and researchers worldwide. *fib* MC2020 Workshop is co-hosted by ACF-Shenzhen University-The Hong Kong Polytechnic University and *fib*, and seven prestigious scholars are specially invited to serve as lecturers for this event.

● Program of *fib* MC2020 Workshop ●

29th, Nov, 2022

Host: To be confirmed (Fully online, via zoom)	
15:00-15:30	Sign-in
15:30-15:40	Welcome/Opening remarks Akio Kasuga, <i>Federation for Structural Concrete(fib)</i>
15:40-16:15	Introduction+overview of MC2020, Sustainability and Life Cycle Management Stuart MATTHEWS, <i>Federation for Structural Concrete(fib)</i>
16:15-16:50	Durability and Service Life Design Carmen ANDRADE, <i>Instituto Eduardo Torroja</i>
16:50-17:25	Assessment of existing structures Gerrie DIETEREN, <i>TNO</i>
17:25-17:40	Questions & Answers
17:40-18:00	Break
18:00-18:35	Seismic design of structures in China Xi-Lin LV, <i>Tongji University</i>
18:35-19:10	Durability design of structures in China Ke-Fei LI, <i>Tsinghua University</i>
19:10-19:45	Conservation and interventions-A comparison of <i>fib</i> and Chinese perspectives Tamon UEDA, <i>Shenzhen University</i>
19:45-20:00	Questions & Answers
20:00-20:10	Closing remarks-Round up of Workshop Xi-Lin LV, <i>Tongji University</i>

Organizer :



Co-organizers :



Supporting Organizations :



Contact Us

For more information about ACF2022_ETSL, please visit the websites:

<https://acf2022.aconf.org>

General Affairs

Ms. Melody CUI

Email: acf2022@szu.edu.cn

Academic Affairs

Dr. Le-Yang LV

Email: l.lv@szu.edu.cn

Sponsorship Consulting

Ms. Nana

Cell phone: 18627754146

E-mail: nana@chytey.com