

The 4th Asian Concrete Federation Symposium on Emerging Technologies for Structural Longevity (ACF2022_ETSL)

Organizer



Co- Organizers

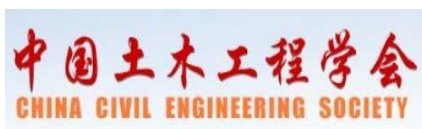


深圳大学
SHENZHEN UNIVERSITY



THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大学

Supporting Organizations



Shenzhen, CHINA

11-13 March, 2023

THE FOURTH ANNOUNCEMENT LETTER

Dear colleagues,

After being delayed due to the COVID-19 pandemic, we are pleased to announce that the 4th Asian Concrete Federation (ACF) Symposium on Emerging Technologies for Structural Longevity (ACF2022_ETSL) has been rescheduled to 11-13 March, 2023.

With in this announcement, we would like to provide you with the updated information as below:

- (1) The symposium will be held offline.
- (2) The conference venue and the hotel accommodation remain unchanged.
- (3) The previously confirmed presentation will be rescheduled to the new date.
- (4) To ensure the conference is better organized, the registration deadline for the presenter is 17 February, 2023.
- (5) Two international scientific journals, <Structural Concrete> and <Journal of Advanced Concrete Technology>, have decided to host special issues for ACF2022_ETSL. Abstracts submitted to this conference are invited to submit a full paper to the special issues.

For updated information, please visit our website at <https://acf2022.aconf.org/>. Should you have any questions, please feel free to contact the organizing committee (Ms. Melody CUI acf2022@szu.edu.cn)

We are looking forward to meeting you in Shenzhen!

The International Organizing Committee

9 January, 2023

PROGRAM at A GLANCE

10 Mar, 2023	13:00-22:00	Registration
11 Mar, 2023	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
12 Mar, 2023	08:00-12:30	Parallel Sessions
	12:30-14:00	Buffet Lunch
	14:00-17:15	Keynote Session 3&4 (Online Group Photo Scheduled)
	17:15-17:30	Closing Session
13 Mar, 2023	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.

REGISTRATION

With the great support of all authors, we have received more than 270 abstracts worldwide. To facilitate the committee to improve the conference agenda, we sincerely invite all experts and participants to complete the registration procedures via <https://acf2022.aconf.org/register.html>.

Conference Registration Fee

Type		till 17 Feb 2023	after 17 Feb 2023	Meal
Presenter	Standard	\$360 or ¥2250	N.A	Incl.
	Student	\$180 or ¥1125	N.A	Excl.
Participant (except Presenter)	Standard	\$360 or ¥2250	\$400 or ¥2500	Incl.
	Student	\$180 or ¥1125	\$200 or ¥1250	Excl.

* To ensure the conference is better organized, the presenter has to register before 17 February, 2023.

* Standard registration fee includes a welcome banquet on 11 March, 2023 and lunch buffet on 11-12 March, 2023.

■ Registration Guidelines

[Registration Guidance for ACF2022_ETSL](#)

KEYNOTE SESSION

(Listed by name initials)

- **Evolution of fib Model Code 2020**
Akio Kasuga, *Federation for Structural Concrete(fib)*
- **Reliability assessment of NDT in Civil Engineering**
Sylvia Keßler, *Helmut Schmidt University*
- **Stochastic Damage Mechanics: Developments and Recent Progress**
Jie LI, *Tongji University*
- **Topic to be confirmed**
Zon-Jin LI, *University of Macau*
- **Green and Low-Carbon Construction Materials**
Chang-Wen MIAO, *Southeast University*
- **Self-sensing FRP Products, Seawater Sea-sand /Nano Concrete and Corrosion-free Smart Structures**
Jin-Ping OU, *Harbin Institute of Technology(Shenzhen)*
- **Performance-Based Earthquake Design of Building Structure in Korea**
Hong-Gun PARK, *Korea Concrete Institute*
- **Structural Engineering Innovations with Emerging Materials for a Carbon-Neutral Future**
Jin-Guang TENG, *The Hong Kong Polytechnic University*
- **Ultra-high Toughness Cementitious Composites (UHTCC) for Resilient and Sustainable Infrastructures**
Shi-Lang XU, *Zhejiang University*
- **Self-healing Materials and Technology for Marine Concrete**
Feng XING, *Shenzhen University*

PROGRAM of *fib* MC2020 WORKSHOP

13 Mar, 2023

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>

JOURNAL SPECIAL ISSUES

Special issues for 'The 4th Asian Concrete Federation Symposium _ Emerging Technologies for Structural Longevity'

We are honored to announce that two international scientific journals, <Structural Concrete> and <Journal of Advanced Concrete Technology> have decided to host special issues for “the 4th Asian Concrete Federation Symposium - Emerging Technologies for Structural Longevity” with respect to the topics of concrete structures and concrete materials separately. Abstracts submitted to this conference which covers the topics of the Journals are invited to submit a full paper to the special issues.

■ Submission procedure:

- Abstracts of max. 200 words should be sent to any of the four guest editors of each special issue. Authors with accepted abstract will be informed by email to submit the manuscript through the online submission system of the journals.
- The submission of full manuscripts should be prepared according to the journal submission guidelines. Submissions will undergo the usual peer-review process of each journal and are expected to address the topic and contain new and previously unpublished material.
- The papers submitted to the special issue will be available online as soon as the review procedure is completed and accepted by the journals.

■ Deadline:

- 28 February, 2023: Abstract submission
- 31 August , 2023: Full paper submission



<Structural Concrete>



<Journal of Advanced Concrete Technology>

Structural Concrete -- Special Issue for 'The 4th Asian Concrete Federation Symposium on Emerging Technologies for Structural Longevity'

About this journal

Structural Concrete is the official journal of the fib, provides conceptual and procedural guidance in the field of concrete construction, and features peer-reviewed papers, keynote research and industry news covering all aspects of the design, construction, performance in service and demolition of concrete structures. The journal now has an impact factor of 3.131.

Topics

A recent innovation in concrete materials, technologies and devices has enabled the design, construction, maintenance and recycling of sustainable and durable concrete structures. This Special Issue, entitled 'Emerging Technologies for Structural Longevity', is to introduce the latest developments and advances that address the global sustainability challenges in the life-cycle performance of concrete structures. A total of 25-30 papers will be included in this Special Issue. The topics include, but are not limited to:

- ▶ Prefabricated/modular-integrated concrete construction
- ▶ Durability and life-cycle performance of concrete structures
- ▶ Inspection and assessment of concrete structures
- ▶ Protection, repair and strengthening of concrete structures
- ▶ Structures with seawater and sea-sand concrete
- ▶ Structures with high-performance concrete
- ▶ Structures with recycled materials
- ▶ Structures with green materials

Guest Editors



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Journal of Advanced Concrete Technology -- Special Issue for 'The 4th Asian Concrete Federation Symposium on Emerging Technologies for Structural Longevity'

■ About this journal

Journal of Advanced Concrete Technology (JACT) is an open access international journal for publishing high quality articles on concrete materials, concrete structures and other related subjects toward the advancement of concrete engineering field. All articles in JACT are free to access and download. Also, there are no charges for submission and publication of the articles. The journal now has an impact factor of 2.459.

■ Topics

Sustainable concrete infrastructure requires the use of innovative construction materials that exhibit exceptional properties (e.g., highly durable, environmentally friendly, functioned, smart, aesthetically pleasing etc.) and meet the changes of construction technologies (e.g., digitalized construction). In particular, it is worth noting that global construction accounts for 39% of total global CO₂ emission. To achieve the carbon neutrality goal in a global scale by the mid-century, it is of paramount importance to use construction materials with less embodied carbon and construction technologies that consume less energy and emit less carbon. In view of a substantial number of submissions submitted to ACF2022_ETSL on innovative construction materials, a special issue will be organized for the Journal of Advanced Concrete Technology dedicated to the theme of "Low Carbon Construction Materials and Technologies". The non-exhaustive list of envisaged topics includes:

- ▶ Low carbon/clinker-free cement concrete;
- ▶ Material design for the recycling of industrial and household wastes;
- ▶ Reaction mechanisms and microstructures evolution;
- ▶ Micro-mechanics and numerical modeling;
- ▶ Mechanical properties;
- ▶ Durability;
- ▶ Environmental assessment.

■ Guest Editors



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SPONSORSHIP PROPOSAL

Please contact the the conference secretariat (Email: nana@chytey.com).

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We look forward to your presence and seeing you in Shenzhen!