

# First Circular

## 20<sup>th</sup> Science Council of Asia Conference

### The Age of New Materials: Innovation for Sustainable Society

*May 13-15, 2021, Shanghai, China*

***Sponsored and Organized by***

Science Council of Asia (SCA)

International Union of Materials Research Societies (IUMRS)

China Association for Science and Technology (CAST)

***Co-organized by***

Shanghai Institute of Microsystem and Information Technology (SIMIT), CAS

ShanghaiTech University

Shanghai Association for Science and Technology (SAST)

Advanced Materials Alliance of CAST Member Societies (AMAC)

Chinese Materials Research Society (C-MRS)

***Supported by***

Shanghai Municipal People's Government

Chinese Academy of Sciences (CAS)



## General Information

“Transforming our world: the 2030 Agenda for Sustainable Development” was unanimously adopted at the UN General Assembly in 2015. Under the common principle of no one left behind for the 7 billion people living in the world, this Agenda has set forth 17 goals (Sustainable Development Goals, SDGs) and 169 targets to be achieved within 15 years from 2016.

As one of the three pillars in modern civilization, material science is considered not as a single scientific discipline, but as a broad and vital field of knowledge and techniques. People and cultures affect the extraction, processing, design, engineering, innovation, selection and application of materials in myriad ways that have enormous impacts on the environment, economy, human health, and quality of life. Critical development in innovative materials has become the foundation and the impetus for new technological revolution, which will potentially lead to increased efficiency, sustainability, or environmental improvements. The 20th Science Council of Asia Conference will focus on how emerging materials and processes can be developed and implemented beneficially for advancing sustainable society development, while at the same time to develop new understandings of our engagement and inter-dependence with the material world.

**The Science Council of Asia (SCA)** is an international scientific organization founded in 2000 by Asian science academies and other national scientific organizations. SCA aims to provide scientists in all fields, including cultural and social as well as natural sciences and technology, with a collaborative platform for promoting scientific exchange and cooperation in Asia, and to develop and promote a holistic vision focusing on sustainable development and improvement in quality of life. At present, SCA is comprised of 32 academic organizations in Asia, and SCA Conference has been held annually since 2001.

**International Union of Materials Research Societies (IUMRS)** was established in 1991 as an international association of technical groups or societies which have an interest in promoting interdisciplinary materials research and education. IUMRS became the member of International Science council (ISC) of United Nations in 2005. There are 14 adhering bodies of covering all the six continents.

### Main topics

- A. Advanced Energy Materials
- B. New Frontiers for Materials Design
- C. Green and Intelligent Materials
- D. Functional Materials for Informatics
- E. Materials for BioTech-InfoTech
- F. Topological Materials for Quantum Computation
- G. Materials for Wearable Electronics
- H. Construction Materials of the Future
- I. Smart Transformation in Agriculture and Local Community
- J. Policy and Strategy for a Sustainable Society
- K. Circular Economy and Eco-materials
- L. Education in New Century for SDGs
- M. Sustainability, Social Diversity and Gender Equality

## **Chair**

Prof. WANG Xi, President of SCA, Vice President of CAST, Academician of CAS

## **Co-chairs**

Prof. HAN Yafang, President of IUMRS

Prof. XIE Xiaoming, Deputy Director of SIMIT, CAS

## **General Secretaries**

Prof. YU Wenjie, Head of Strategy Research Office, SIMIT, CAS

Dr. DONG Ziqiang, Associate Professor, Shanghai University

## **Keynote Speakers**

- (1) R.P.H. Chang (Professor of Northwest University, Former IUMRS President)
- (2) Victoire de Margerie (Vice Chair of World Materials Forum, Soitec Board Chair)
- (3) Gabriel Crean (Advisor to Deputy Prime Minister & Minister of the Economy Luxembourg)
- (4) Ching-Ping Wong (Foreign Academician of Chinese Academy of Engineering, Honorary Professor of SIAZ, CAS)
- (5) Qikun Xue (Academician of CAS, President of Southern University of Science and Technology)
- (6) Changsheng Liu (Academician of CAS, President of Shanghai University)
- (7) Xuewen Xiao (Chairman, CISDI Group Co., Ltd)
- (8) TBD
- (9) TBD

## **Parallel Sessions and Chairs**

- (1) Advanced Energy Materials  
Local Chair: Shigang Sun (Academician of CAS, Xiamen University)  
International Chair: TBD
- (2) New Frontiers for Materials Design  
Local Chair: Tongyi Zhang (Academician of CAS, Shanghai University)  
International Chair: TBD
- (3) Green and Intelligent Materials  
Local Chair: Dongyuan Zhao (Academician of CAS, Fudan University)  
International Chair: TBD
- (4) Functional Materials for Informatics  
Local Chair: Xiaoming Xie (Professor of SIMIT, CAS)  
International Chair: TBD
- (5) Sustainability, Social Diversity and Gender Equality  
Chairs: TBD
- (6) Smart Transformation in Agriculture and Local Community  
Local Chair: TBD  
International Chair: Sakae Shibusawa (Secretary/Treasurer of SCA, Professor of Tokyo University of Agriculture and Technology)

**Date: May 13-15, 2021**

**Venue:** ShanghaiTech Conference Center, 550 Haike Road, Shanghai, China

### **Conference Mode**

The meeting will be held in a hybrid format. The attendees can choose to participate in the conference on-site or via video conference system, preferably on site. The conference webcasting link or ZOOM meeting ID will be announced before the conference starts.

### **Financials**

- Registration is free.
- Participants will need to cover their own lodging and travel expenses.

### **Hotels near the Venue**

- 5-star Hotels
  - (1) **(Primary Option)** Aloft Shanghai Zhangjiang Haike (next to the venue)  
Address: 550 Haike Road, Pudong District, Shanghai  
Telephone: +86 21 38168888  
<http://www.aloftshanghaizhangjianghaike.com>
  - (2) Parkyard Hotel Shanghai (4 kilometers away from the venue)  
Address: 699 Bibo Road, Pudong District, Shanghai  
Telephone: +86 21 61621168  
<http://www.parkyardhotel.com/>
  - (3) Kerry Hotel Pudong, Shanghai (8 kilometers away from the venue)  
Address: 1388 Huamu Road, Pudong District, Shanghai  
Telephone: +86 21 61698888  
<https://www.shangri-la.com/en/shanghai/kerryhotelpudong/>
- 4-star Hotels
  - (1) ZTE Hotel (2.5 kilometers away from the venue)  
Address: 866 Keyuan Road, Pudong District, Shanghai  
Telephone: +86 21 51333907  
<http://zte-shanghai.ds.hotelsite-builder.com/>
  - (2) Ramada Plaza Pudong South Hotel (7 kilometers away from the venue)  
Address: 938 Hunan Road, Pudong District, Shanghai  
Telephone: +86 21 61621168  
<http://www.maoyeramadahotel.com/>

### **Website**

<http://sca2020materials.csp.escience.cn/>

### **Enquires**

20th SCA Conference Organizing Team  
Email: [sca20@mail.sim.ac.cn](mailto:sca20@mail.sim.ac.cn)

## 20<sup>th</sup> SCA Conference Agenda

DATE	TIME	PROGRAM	HOST	ROOM (TBD)	
May 13	8:00-8:45	Registration		Main Venue	
	8:45-9:15	Opening Ceremony			
		Opening Remarks			
		Welcome Speech	President of SCA		
		Congratulatory Address			
	9:15-10:25	Keynote Speeches	Speakers 1, 2		
	10:25-10:40	Coffee Break			
	10:40-12:25	Keynote Speeches	Speakers 3, 4, 5		
	12:30-13:30	Lunch Buffet			
	14:00-17:30	Parallel Sessions			
		Advanced Energy Materials	Session Chairs		Room A
		Green and Intelligent Materials	Session Chairs		Room B
		Sustainability, Social Diversity and Gender Equality	TBD		Room C
16:00-17:30	SCA Board Meeting	SCA Secretariat	Room D		
18:00-20:00	Reception				
May 14	9:00-10:10	Keynote Speeches	Speakers 6, 7	Main Venue	
	10:10-10:25	Coffee Break			
	10:25-11:35	Keynote Speeches	Speakers 8, 9		
	10:00-11:30	SCA General Assembly Meeting	SCA Secretariat	Room D	
	11:40-13:00	Lunch Buffet			
	13:00-16:30	Parallel Session 2			
		New Frontiers for Materials Design	Session Chairs	Room A	
		Functional Materials for Informatics	Session Chairs	Room B	
		Smart Transformation in Agriculture and Local Community	Session Chairs	Room C	
	16:30-17:30	Closing Session			
		Declaration of SCA Statement		Main Venue	
Greeting from President-Elect					
Flag Ceremony					
18:00-20:00	Banquet				
May 15	Scientific Facility Tour				
	9:00-11:00	Shanghai Synchrotron Radiation Facility			
		Soft X-ray FEL Facility			
	11:00-12:00	Lunch Buffet			
	13:00-17:00	Culture Events			
Shanghai Science & Technology Museum					
	Shanghai Natural History Museum				