



## **Second Circular**

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

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

*May 13-15, 2021  
Guangzhou, Guangdong, China*

#### ***Organized by***

Science Council of Asia (SCA)  
China Association for Science and Technology (CAST)  
Shanghai Institute of Microsystem and Information Technology (SIMIT) CAS  
Department of Science and Technology of Guangdong Province  
Guangdong Provincial Association for Science and Technology  
People's Government of Guangzhou Nansha District

#### ***Co-Organized by***

Advanced Materials Alliance of CAST Member Societies (AMAC)  
Chinese Materials Research Society (C-MRS)

#### ***Supported by***

Chinese Academy of Sciences (CAS)  
People's Government of Guangdong Province

## 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 20<sup>th</sup> 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.

**The China Association for Science and Technology (CAST)** is the largest non-governmental organization of scientific and technological professionals in China, serving as a bridge that links the domestic and international science and technology communities. As founding institute, CAST has been member of SCA for more than 20 years and made significant contributions to the prosperity and development of science and technology, and to the overall economic and social development.

### MAIN TOPICS (To be updated)

- A. *Advanced Energy Materials*
- B. *New Frontiers for Materials Design*
- C. *Green and Intelligent Materials*
- D. *Functional Materials for Informatics*
- E. *Sustainability, Social Diversity and Gender Equality*
- F. *Smart Transformation in Agriculture and Local Community*
- G. *Materials for BioTech-InfoTech*
- H. *Topological Materials for Quantum Computation*
- I. *Materials for Wearable Electronics*
- J. *Construction Materials of the Future*
- K. *Policy and Strategy for a Sustainable Society*
- L. *Circular Economy and Eco-materials*
- M. *Education in New Century for SDGs*
- N. *The Impact of COVID-19 on Society*

## CHAIR

### WANG Xi

President of SCA, Vice President of CAST, Deputy Governor of Guangdong Province, Academician of CAS

## CO-CHAIRS

### WANG Weihua

Director of Guangdong Songshan Lake Materials Laboratory, Academician of CAS

### XIE Xiaoming

Deputy Director of SIMIT CAS, Director of State Key Laboratory of Functional Materials for Informatics

## KEYNOTE SPEAKERS

(The speakers are sorted in alphabetical order by initials of name. The exact titles of speeches will be updated.)

(1) **Ching-Ping WONG**

Professor of The Chinese University of Hong Kong, Foreign Academician of Chinese Academy of Engineering (CAE)

Topic: *Materials for Wearable Electronics*

(2) **Gabriel CREAN**

Advisor to Deputy Prime Minister & Minister of the Economy Luxembourg

Topic: *Policy and Strategy for a Sustainable Society*

(3) **K Sudesh KUMAR**

Professor of Universiti Sains Malaysia

Topic: *TBD*

(4) **LIU Changsheng**

President of Shanghai University, Academician of CAS

Topic: *Materials for BioTech-InfoTech*

(5) **R.P.H. CHANG**

Professor of Northwest University, Former IUMRS President

Topic: *Education in New Century for SDGs*

(6) **SHIRAHASE Sawako**

Professor of the University of Tokyo, Director of UTokyo Center for Contemporary Japanese Studies

Topic: *TBD*

(7) **Victoire de MARGERIE**

Vice Chair of World Materials Forum, France

Topic: *Circular Economy and Eco-materials*

(8) **WANG Enge**

Chair of Governing Board of Guangdong Songshan Lake Materials Laboratory, Academician of CAS

Topic: *TBD*

(9) **XUE Qikun**

President of Southern University of Science and Technology, Academician of CAS

Topic: *Topological Materials for Quantum Computation*

(10) **XIAO Xuwen**

Chairman, CISDI Group Co., Ltd

Topic: *Construction Materials of the Future*

(11) **ZHONG Nanshan**

Director of National Clinical Research Center for Respiratory Disease, Academician of CAE

Topic: *The Impact of COVID-19 on Society*

## PARALLEL SESSIONS AND CHAIRS

(1) *Advanced Energy Materials*

**Kampanart SILVA** (International Chair)

Researcher of National Energy Technology Center, Thailand

**SUN Shigang** (Local Chair)

Professor of Xiamen University, Academician of CAS

(2) *New Frontiers for Materials Design*

**Abu Bakar JAAFAR** (International Chair)

Vice President of the Academy of Sciences Malaysia

**ZHANG Tongyi** (Local Chair)

Professor Emeritus of The Hong Kong University of Science and Technology, Academician of CAS

(3) *Green and Intelligent Materials*

**Jin-Ho CHOY** (International Chair)

Academician of World Academy of Ceramics, Academician of National Academy of Science, Korea

**ZHAO Dongyuan** (Local Chair)

Director of Advanced Materials Laboratory at Fudan University, Academician of CAS

(4) *Functional Materials for Informatics*

**Than Zaw OO** (International Chair)

Pro-Rector of the University of Yangon

**XIE Xiaoming** (Local Chair)

Deputy Director of SIMIT CAS, Director of State Key Laboratory of Functional Materials for Informatics

(5) *Sustainability, Social Diversity and Gender Equality*

**Marieta Bañez SUMAGAYSAY** (International Chair)

Executive Director of National Research Council of the Philippines

**CHEN Ying** (Local Chair)

Vice Director of Research Centre for Sustainable Development, Chinese Academy of Social Sciences (CASS)

(6) *Smart Transformation in Agriculture and Local Community*

**SHIBUSAWA Sakae** (International Chair)

Secretary/Treasurer of SCA, Professor of Tokyo University of Agriculture and Technology

**YUAN Peng** (Local Chair)

Vice-Chancellor of Rural Development Institute, CASS

## CONFERENCE MODE

The meeting will be held in a hybrid mode. The attendees can choose to participate in the conference on-site or via on-line conference system.

Latest regulation with regards to COVID-19 prevention and local control is updated on the

conference website and please check it for guidelines before travelling to Guangzhou. In consideration of the regulation, participants outside of mainland China are suggested to attend the conference via on-line system.

The conference webcasting link or on-line meeting ID will be announced as soon as the on-line system is ready.

## **DATE**

May 13-15, 2021

## **VENUE AND HOTEL**

LN Garden Hotel Nansha Guangzhou

Address: No.1 Dajiao 2nd Road, Nanshan District Guangzhou, China

Telephone: (+86) 020-32108888

<http://en.nansha-grand.cn/>

## **FINANCIALS**

- Registration is free.
- Participants will need to cover their own lodging and travel expenses.
- With confirmed registration information, participants can get hotel discount.

## **WEBSITE AND REGISTRATION**

Welcome to register and submit on the conference website:

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

## **ENQUIRES**

**YU Wenjie**, General Secretary

Director of Laboratory of Si-based Substrate and Integrated Device, SIMIT CAS

& 20<sup>th</sup> SCA Conference Secretariat

*Email: sca20@mail.sim.ac.cn*

## 20<sup>th</sup> SCA CONFERENCE AGENDA

DATE	TIME	PROGRAM	HOST	ROOM	
<b>May 13</b>	8:00-8:30	Registration		TBD	
	8:30-8:50	Opening Ceremony	CAST	Main Venue	
	8:50-9:20	Group Photo			
	9:20-11:50	Keynote Speeches	Co-Chairs		
	Lunch			TBD	
	13:00-16:00 Parallel Sessions	Advanced Energy Materials		Session Chairs	Room A
		Green and Intelligent Materials		Session Chairs	Room B
		Sustainability, Social Diversity and Gender Equality		Session Chairs	Room C
	16:00-18:00	Poster Presentation		Hall	
	16:00-17:30	SCA Board Meeting	SCA Secretariat	Room D	
18:00-20:00	Reception		TBD		
<b>May 14</b>	8:30-11:30	Keynote Speeches	Co-Chairs	Main Venue	
	Lunch			TBD	
	13:00-16:00 Parallel Sessions	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
	16:00-17:30	Poster Presentation		Hall	
	16:15-17:15	SCA General Assembly	SCA Secretariat	Room D	
	17:30-18:30 Closing Ceremony	Declaration of SCA Statement		CAST	Main Venue
		Greeting from President-Elect			
		Flag Ceremony/Introduction on ICSSR			
19:00-20:30	Banquet		TBD		
<b>May 15</b>	Scientific and Cultural Tour			TBD	