First Circular

20th 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

● 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.hotsite-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
<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>PROGRAM</th>
<th>HOST</th>
<th>ROOM (TBD)</th>
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<tr>
<td><strong>May 13</strong></td>
<td>8:00-8:45</td>
<td>Registration</td>
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<td>Opening Ceremony</td>
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<td>9:15-10:25</td>
<td>Keynote Speeches</td>
<td>Speakers 1, 2</td>
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<td>Coffee Break</td>
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<td>10:40-12:25</td>
<td>Keynote Speeches</td>
<td>Speakers 3, 4, 5</td>
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<td>Lunch Buffet</td>
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<td>14:00-17:30</td>
<td>Parallel Sessions</td>
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<td>Advanced Energy Materials</td>
<td>Session Chairs</td>
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<td>Green and Intelligent Materials</td>
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<td>Sustainability, Social Diversity and Gender Equality</td>
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<td>16:00-17:30</td>
<td>SCA Board Meeting</td>
<td>SCA Secretariat</td>
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<td>18:00-20:00</td>
<td>Reception</td>
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<td><strong>May 14</strong></td>
<td>9:00-10:10</td>
<td>Keynote Speeches</td>
<td>Speakers 6, 7</td>
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<td>Speakers 8, 9</td>
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<td>SCA General Assembly Meeting</td>
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<td>New Frontiers for Materials Design</td>
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<td>Closing Session</td>
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<td><strong>May 15</strong></td>
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<td>Scientific Facility Tour</td>
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<td>Shanghai Science &amp; Technology Museum</td>
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