

# First Circular

The 22nd Science Council of Asia Conference

Science for Sustainability,  
Resilience,  
and Human Well-Being

October 19-21, 2023

Seoul, Korea

Sponsored and Organized by

Science Council of Asia (SCA)

National Academy of Sciences, Republic of Korea

Korean Academy of Science and Technology

Supported by

Ministry of Education

Ministry of Science and ICT



大韓民國學術院  
The National Academy of Sciences, Republic of Korea

**KAST** 한국과학기술한림원  
The Korean Academy of Science and Technology

## General information

We are living in a challenging era of the rapid evolution of sciences and technologies, climate change, the COVID-19 pandemic, energy shortage and the reorganization of the global supply chain. Climate change has long been a critical threat to humanity. Many countries and regions try to positively respond to climate change with global collaboration.

During the past three years, humanity has faced another critical threat, COVID-19, which spread rapidly across the globe. Due to the worldwide spread of the COVID-19, we are experiencing not only the inconvenience of social distancing, but also the widespread economic recessions. It may be the right time for us to reassess our way of thinking and action in our academic research, education and social lives to respond to the impact of COVID-19 and climate change, especially in the perspective of sustainable and resilient recovery. All of these problems including energy shortages and global supply chain, are related to survival of human beings and sustainable development and cannot be solved by a single discipline, particular region, or specific sector.

The 2030 Agenda (SDGs) for sustainable development requests the support of all United Nations Member States. The Science Council of Asia (SCA) has been promoting cooperation in scientific research to handle diverse and urgent issues on sustainability in Asian countries/regions and the world. The 22nd Science Council of Asia Conference will focus on how “Science for Sustainability, Resilience and Human Well-Being” can be beneficially developed and implemented for advancing sustainable society development in Asia and the world.

**The Science Council of Asia (SCA)** is an international scientific organization founded in 2000 by Asian science academies and other national scientific organizations. Based in Asia, the SCA aims to provide scientists with a collaborative platform in cultural and social fields as well as natural sciences and technology. The SCA's overarching goal is to develop and promote a holistic vision focusing on sustainable development and improvement in quality of life. At present, SCA is comprised of 18 countries / regions, 31 academic organizations in Asia. The SCA Conference has been held annually since 2001. 20<sup>th</sup> and 21<sup>st</sup> Science Council of Asia Conferences were held in China (hybrid mode) in 2021 and in India (online mode) in 2022 respectively.

**The National Academy of Sciences, Republic of Korea (NAS)** was inaugurated on July 17, 1954 based on the Culture Protection Act enacted in 1952. The NAS is an academic organization that represents the birthplace of academic development in the Republic of Korea and functions as the Hall of Fame for Korean scholars, both nominally and practically. NAS members are actively engaged in academic research activities across all disciplines with the support of the government. Members are renowned scholars who have made remarkable contributions to the development of the sciences, incurred nominations from academic organizations in their respective fields, and have been elected via a rigorous and fair screening process.

**The Korean Academy of Sciences and Technology (KAST)** is an authoritative academic organization comprised of Korea's leading scholars in science and technology. It was established as a purely private organization in 1994 to lay a foundation for the promotion of Korea's science and technology community. KAST supports policy research and advisory activities of scholars in science and technology for the development of basic science in Korea and the creation of a healthy R&D eco-system. It also provides science education and organizes cultural activities for the purpose of talent-fostering. In addition, through exchanges and cooperation with overseas academies, KAST plays a pivotal role in the non-governmental diplomacy of science and technology, through exchange and cooperation with international organizations, exerts efforts for science and technology to contribute to the advancement of humanity.

### **Main Topics (Tentative)**

- Advances in Science and Technology for Sustainable Development
- Biotechnology for Human Well-Being
- Humanities and Social Sciences for Better Living Society
- Emerging Technologies and Policies toward Carbon Neutrality
- Convergence of Knowledge and Capacity Building for COVID-19 Pandemic
- Mega-data and AI Technologies for Human Well-Being
- Resilient Recovery from Climate Change
- Education in Digital Transformation Era

**Date:** October 19-21, 2023

**Venue:** Convention Center, Hoam Faculty House ([www.hoam.ac.kr](http://www.hoam.ac.kr))

Seoul National University, Gwanakro 1, Gwanak-gu, Seoul 08826, Korea

### **Chairs**

- LEE Jang Moo, President of Science Council of Asia  
President of National Academy of Sciences, Republic of Korea
- YOO Ook Joon, President of Korean Academy of Science and Technology

### **General Secretaries**

- PARK Seung Woo, Chairman of Local Organizing Committee, NAS
- LEE Changhee, Chairman of Local Organizing Committee, KAST
- SHIBUSAWA Sakae, Secretary General/Treasurer, SCA

### **Plenary Speaker**

- **BAN Ki-moon**, 8<sup>th</sup> UN Secretary General (2007-2016)  
Deputy Chairman of Elders (a group of global leaders)  
President and Chair, Ban Ki-moon Foundation for a Better Future

### **Keynote Speakers**

- **Prof. BRODJONEGORO Satryo Soemantri**  
President of the Indonesian Academy of Sciences  
Emeritus Professor in Mechanical Engineering at the Bandung Institute of Technology (ITB), Indonesia
- **Prof. CHOWDHURY Abul Kalam Azad**  
President of the Bangladesh Academy of Sciences  
Former President of Pharmaceutical Society of Bangladesh
- **Prof. KIM Kyong Dong**  
Emeritus Professor in Sociology at Seoul National University, Korea  
Member, the National Academy of Sciences, Korea
- **Prof. KITAJIMA Kaoru**  
Professor, Kyoto University, Japan  
Council Member, Science Council of Japan

- **Prof. XUE Qi-Kun**  
President, the Southern University of Science and Technology, China  
Member of the Chinese Academy of Sciences
- **Dr. YOO Youngsook**  
14<sup>th</sup> Minister of Environment, Korea (2011-2013)  
Chairperson of the Climate Change Center

*\*Speakers are listed by alphabetical order (Family name)*

## Important Dates

<b>February 15</b>	Registrations Open
<b>March 1</b>	Call for Abstracts Opens
<b>May 31</b>	Abstract Submissions Close
<b>June 30</b>	Proposal Acceptance / Rejection Notifications
<b>July 31</b>	Final Program Announcement
<b>September 15</b>	Presentation Materials (PPT, Posters) Submissions Deadline
<b>October 19-20</b>	22 <sup>nd</sup> SCA General Assembly and Conference

## Conference Format

All 2023 SCA meetings will be held in person at Hoam Faculty House (Seoul National University). The attendees can participate in the Conference on-site.

## Expenses

- Registration is free.
- Participants will need to cover their own lodging and travel expenses.
- The SCA 2023 Organizing Committee will cover the accommodation expenses for up to three nights of one representative of each SCA Member Organization.

## Hotels Near the Venue

- Hoam Faculty House ([www.hoam.ac.kr](http://www.hoam.ac.kr), Tel: +82-1688-7745)  
Seoul National University, Gwanakro 1, Gwanak-gu, Seoul, Korea
  - Room Type: Standard (104,500 KRW), Deluxe (148,500 KRW), Suite (220,000 - 275,000 KRW)

- Participants will be informed about alternate hotels at a later date.

## Homepage

<http://sca2023.kr>

The homepage will be continuously updated with detailed information.

## Enquiries

The 22nd SCA Conference Organizing Committee

Email: [sca2023@kast.or.kr](mailto:sca2023@kast.or.kr)



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## Abbreviations

- ICT: information and communication technology
- AI: artificial intelligence
- COVID: coronavirus disease



## The 22nd SCA Conference Program Overview

DATE	TIME	PROGRAM
DAY 1 October 19	9:30~10:00	Opening Ceremony
	10:10~11:00	Plenary Speech
	11:00~12:20	Keynote Speeches (2 persons)
	13:30~17:00 Parallel Sessions	Advances in Science and Technology for Sustainable Development
		Biotechnology for Human Well-Being
		Humanities and Social Sciences for Better Living Society
		Emerging Technologies and Policies toward Carbon Neutrality
	13:30~17:00	Poster Presentation
	16:30~18:00	SCA Management Board Meeting
Reception (Hosted by NAS, SCA)		
DAY 2 October 20	9:30~12:20	Keynote Speeches (4 persons)
	13:30~17:00 Parallel Sessions	Convergence of Knowledge and Capacity Building for COVID-19 Pandemic
		Mega-data and AI Technologies for Human Well-Being
		Resilient Recovery from Climate Change
		Education in Digital Transformation Era
	13:30~17:00	Poster Presentation
	16:30~17:30	SCA General Assembly
	17:45~18:30	Closing Ceremony
Banquet (Hosted by KAST)		
DAY 3 October 21	Scientific and Cultural Tour	