

Second 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

Cooperated by

Climate Change Center, Republic of Korea
Future Earth Asia Regional Committee

Supported by

Ministry of Education
Ministry of Science and ICT

Organized by



General information

We are currently facing a challenging era characterized by 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, prompting many countries and regions to actively respond to it through global collaboration.

Over the past three years, humanity has grappled with the devastating impact of COVID-19, which rapidly spread and disrupted countless lives across the globe, leading to widespread economic recessions. This situation calls for a reassessment of our perspectives and behavior in various aspects, including academic research, education, and social lives, to effectively address the impacts of COVID-19 and climate change, with a particular focus on sustainable and resilient recovery. It is crucial to recognize that these challenges, including energy shortages and an unstable global supply chain, are interconnected with human survival and sustainable development, requiring multidisciplinary and cross-sectoral solutions.

The 2030 Agenda (SDGs) for sustainable development calls for the support of all United Nations Member States. The Science Council of Asia (SCA) has been actively promoting cooperation in scientific research to tackle diverse and urgent sustainability issues in Asian countries, as well as worldwide. The 22nd Science Council of Asia Conference will concentrate on the development and implementation of **"Science for Sustainability, Resilience, and Human Well-Being"** to advance sustainable societal 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 and regions, and 31 academic organizations in Asia. The SCA Conference has been held annually since 2001. The 20th and 21st 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 under the provision of the Culture Protection Act, which was 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, received 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.



■ **Date : October 19-21, 2023**

■ **Venue : Convention Center, Hoam Faculty House** (www.hoam.ac.kr)

SNU Hoam Faculty House 1, Gwanak-ro, Gwanak-gu, Seoul, Korea (08826)

■ **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

■ **Main Topics**

1. Advances in Science and Technology for Sustainable Development
2. Biotechnology for Human Well-Being
3. Humanities and Social Sciences for Better Living Society
4. Emerging Technologies and Policies toward Carbon Neutrality
5. Convergence of Knowledge and Capacity Building in COVID-19 Pandemic
6. Mega-Data and AI Technologies for Human Well-Being
7. Resilient Recovery from Climate Change
8. Education in the Digital Transformation Era

Main Topics will have shortened titles, which are follows:

- | | |
|-----------------------------------|-------------------|
| 1. Science and Technology | 5. COVID-19 |
| 2. Biotechnology | 6. Data & AI |
| 3. Humanities and Social Sciences | 7. Climate Change |
| 4. Carbon Neutrality | 8. Education |



Parallel Session Program at a Glance

Date	Time	Room A	Room B	Room C	Room D
October 19 (Thu)	13:00~15:00	S1. Science & Technology (I)	S2. Biotechnology	S3. Humanities & Social Sciences (I)	S4. Carbon Neutrality
	Break / Poster Session				
	15:30~17:30	S5. COVID-19	SCA Management Board Meeting	S7. Climate Change	S8. Education
October 20 (Fri)	13:00~15:00	S1. Science & Technology (II)	S2&6 Biotechnology & AI	S3. Humanities & Social Sciences (II)	SP1. Climate Change Center
	Break / Poster Session				
	15:30~17:30	S1. Science & Technology (III)	S6. Data & AI	S3. Humanities & Social Sciences (III)	SP2. Future Earth Asia

* Allocation of Oral Presentation will be announced to the presenters individually.

* Poster Presentations will be displayed at the venue.

Important Dates

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



The 22nd SCA Conference Program (tentative)

Date	Time	Program	Venue
19 October (Thursday)	9:30-10:00	Opening Ceremony	Main Hall
	10:10-11:00	Plenary Speech	
	11:00-12:00	Keynote Speech 1,2	
	12:00-13:00	Break (Lunch)	Restaurant
	13:00-15:00	S1. Science and Technology (I)	Room A
		S2. Biotechnology	Room B
		S3. Humanities and Social Sciences (I)	Room C
		S4. Carbon Neutrality (I)	Room D
	15:00-15:30	Break / Poster Session	Lobby
	15:30-17:30	S5. Covid-19	Room A
		S7. Climate Change	Room C
		S8. Education	Room D
	16:30-17:30	SCA Management Board Meeting	Cherry
	18:00-19:30	Reception (invitation only)	Main Hall
20 October (Friday)	9:30-11:30	Keynote Speech 1, 2, 3, 4	Main Hall
	11:30-13:00	Break (Lunch)	Restaurant
	13:00-15:00	S1. Science and Technology (II)	Room A
		S2&6. Biotechnology and AI	Room B
		S3. Humanities and Social Sciences (II)	Room C
		SP1. Climate Change Center Korea	Room D
	15:00-15:30	Break / Poster Session	Lobby
	15:30-17:30	S1. Science and Technology (III)	Room A
		S6. AI and Data	Room B
		S3. Humanities and Social Sciences (III)	Room C
		SP2. Future Earth	Room D
	17:00-18:00	SCA General Assembly	Main Hall
	18:00-18:30	Closing Ceremony	
	18:30-20:00	Banquet (invitation only)	Main Hall
21 October (Saturday)	10:00-14:00	Excursion (international participants only)	



Plenary Speaker

BAN Ki-moon, 8th 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 and the Speech Titles

Prof. CHOWDHURY Abul Kalam Azad

President, the Bangladesh Academy of Sciences
Former President, Pharmaceutical Society of Bangladesh

- “Advances in science, technology, and innovation, and the sustainability of development”

Prof. XUE Qi-Kun

President, the Southern University of Science and Technology, China
Member, the Chinese Academy of Sciences

- “China's Initiatives in Science and Technology Towards Carbon Neutrality”

Prof. KIM Kyong Dong

Emeritus Professor, Seoul National University, Korea
Member, the National Academy of Sciences, Korea

- “Quo Vadis Science, Technology, and Society? - Light From the East”

Prof. BRODJONEGORO Satryo Soemantri

Former President, the Indonesian Academy of Sciences
Emeritus Professor in Mechanical Engineering at the Bandung Institute of Technology (ITB), Indonesia

- “Guarantee that People are at the Center”

Prof. KITAJIMA Kaoru

Professor, Kyoto University, Japan
Council Member, Science Council of Japan

- “Tropical forests: key for climate mitigation, adaptation and sustainability of biological and cultural diversity”

Dr. YOO Youngsook

14th Minister, Environment, Korea (2011-2013)
Chairperson, the Climate Change Center

- “Science based sustainable low carbon resilient society”



Topics and Chairs

(1) Advances in Science and Technology for Sustainable Development

- Part 1: October 19 (Thu), 13:00~15:00 / Room A
Chair: Prof. Masilamani Palanisamy, Bharathidasan University
- Part 2: October 20 (Fri), 13:00~15:00 / Room A
Chair: Dr. Lourdes J. Cruz, Future Earth Philippines
- Part 3: October 20 (Fri), 15:30~17:30 / Room A
Chair: Prof. Kim Hazel V. Arafiles, University of Santo Tomas

(2) Biotechnology for Human Well-Being

- Part 1: October 19 (Thu), 13:00~15:00 / Room B
Chair: Dr. Mubarak Ahmad Khan, Bangladesh Jute Mills Corporations

(3) Humanities and Social Sciences for Better Living Society

- Part 1: October 19 (Thu), 13:00~15:00 / Room C
Chair: President Nadira Karunaweera, National Academy of Sciences of Sri Lanka
- Part 2: October 20 (Fri), 13:00~15:00 / Room C
Chair: Dr. Smriti Basnett, Future Earth South Asia Global Hub
- Part 3: October 20 (Fri), 15:30~17:30 / Room C
Chair: Prof. YOO Jang-Hee, National Academy of Sciences, Republic of Korea

(4) Emerging Technologies and Policies toward Carbon Neutrality

- October 19 (Thu), 13:00~15:00 / Room D
Chair: Prof. YOSHIMURA Shinobu, The University of Tokyo

(5) Convergence of Knowledge and Capacity Building for COVID-19 Pandemic

- October 19 (Thu), 15:30~17:30 / Room A
Chair: Prof. Shiela B. Navasca, University of Santo Tomas

(6) Mega-data and AI Technologies for Human Well-Being

- October 20 (Fri), 15:30~17:30 / Room B
Chair: Prof. IWASAKI Wataru, University of Tokyo

(2&6) Biotechnology and AI Technologies for Human Well-Being

- October 20 (Fri), 13:00~15:00 / Room B
Chair: Prof. KIM Mihyun, Gachon University

(7) Resilient Recovery from Climate Change

- October 19 (Thu), 15:30~17:30 / Room C
Chair: Dr. Seepana Prakasam, Indian Council of Social Science Research

(8) Education in Digital Transformation Era

- October 19 (Thu), 15:30~17:30 / Room D
Chair: Prof. HARA Yoshinori, Kyoto University

(Special Session 1) by Climate Change Center

- October 20 (Fri), 13:00~15:00 / Room D
Chair: Director KIM Sohee, Climate Change Center

(Special Session 2) by Future Earth

- October 20 (Fri), 15:30~17:30 / Room D
Chair: Prof. KIM Joon, Future Earth Korea



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.

Language

English is the official language of the conference. English is to be used for all the printed materials, presentations and discussions.

Expenses

- Registration is free.
- Travel grants are NOT available for the conference.
- Participants have to cover their own travel expenses (accommodation, flight, ground transfers, etc.)

Hotels Near the Venue

- **Hoam Faculty House** (www.hoam.ac.kr) Tel: +82-1688-7745
 - Address: 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)
- **SR Hotel Sadang** (<http://en.hotel-sr.com>) Tel: +82-2-588-2000
 - Address: 15, Dongjak-daero 1-gil, Dongjak-gu, Seoul, Korea (07025)
 - Room Type: Superior Double (98,000 KRW), Deluxe Double (105,000 KRW)
 - Distance from Venue: 2.6 Km (10-minute drive)
- **Shilla Stay Guro** (www.shillastay.com/guro/index.do) Tel: +82-2-2230-0700
 - Address: 596, Shieung-daero, Dongjak-gu, Seoul, Korea (07074)
 - Room Type: Standard (126,850 KRW), Premier Standard (147,490 KRW)
 - Distance from Venue: 6.7 Km (20~30-minute drive)
- **Lotte City Hotel Guro** (www.lottehotel.com/guro-city/en.html) Tel: +82-2-771-1004
 - Address: 300, Digital-ro, Guro-gu, Seoul, Korea (08379)
 - Room Type: Standard (160,000 KRW), Standard Family (190,000 KRW)
 - Distance from Venue: 7.6 Km (25~35-minute drive)
- **Trangblue Hotel** (<http://trangbluehotel.jalib.site>) Tel: +82-2-889-8000
 - Address: 52, Sillimdong 7-gil, Gwanak-gu, Seoul, Republic of Korea
 - Room Type: Standard (60,000 KRW~)
 - Distance from Venue: 4.4 Km (15~20-minute drive)
- **Benikea Hotel Noblesse** (Tel: +82-2-558-1202)
 - Address: 6-13, Teheran-ro 25-gil, Gangnam-gu, Seoul, Republic of Korea
 - Room Type: Deluxe (80,000 KRW~)
 - Distance from Venue: 11 Km (30~35-minute drive)



Visa

You may search and locate the appropriate visa required for entry to Korea at the following website: <https://www.visa.go.kr/main/openMain.do>

Visa applications are the sole responsibility of participants. Please note that the validity of a short stay visa (C3-1) is 90 days. For any specific inquiries regarding your visa, please reach out to the Korean Embassy or the nearest Consulate in your region.

The invitation letter for visa support will be issued upon registration confirmation by the participants. Please be advised that the hosts cannot provide a 'Guarantee Letter'. We recommend preparing your visa documents in collaboration with your affiliated organizations.

Excursion

The detailed schedule for Excursion on October 21 will be announced at a later time. Please note that the tentative timing for the tour will be from 10:00 to 14:00.

Homepage

<http://sca2023.kr>

The homepage will be regularly updated with detailed information. Visitors can find the latest directions from the airport to the venue, and the 2023 SCA Secretariat will continuously provide updates on the event details.

Inquiries

The 22nd SCA Conference Organizing Committee

Email: sca2023@kast.or.kr