

3rd Circular

# The 22<sup>nd</sup> 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



## DAY 1

09:30 - 10:00	<b>Opening</b>	
<b>Plenary Speech &amp; Keynote Speech</b>		Mugunghwa
10:00 - 12:00	<b>Geopolitics in East Asia</b> BAN Ki-moon <i>8th UN Secretary General (2007-2016)</i> <i>Deputy Chairman of Elders (a group of global leaders)</i> <i>President and Chair, Ban Ki-moon Foundation for a Better Future</i>	
	<b>Advances in science, technology, and innovation and the sustainability of development</b> CHOWDHURY Abul Kalam Azad <i>President, the Bangladesh Academy of Sciences</i> <i>Former President, Pharmaceutical Society of Bangladesh</i>	
	<b>Quo vadis science, technology, and society? - Light from the East</b> KIM Kyong-Dong <i>Emeritus Professor, Seoul National University</i> <i>National Academy of Sciences, Republic of Korea</i>	
12:00 - 13:00	<b>Break (Lunch)</b>	
<b>Parallel Session S1(1). Advances in Science and Technology for Sustainable Development</b> <i>Chair - PALANISAMY Masilamani (Bharathidasan University)</i>		Magnolia
13:00 - 13:20	<b>Co-creation for Water Security: The initiatives of HELP Davao Network, Philippines</b> SALES Anthony C. ( <i>Department of Science and Technology XI, Philippines</i> )	
13:20 - 13:40	<b>Appraisal of groundwater quality through Groundwater Pollution Index (GPI) in Tiruppur Municipal Corporation, Tamil Nadu, India</b> PALANISAMY Masilamani ( <i>Bharathidasan University</i> )	
13:40 - 14:00	<b>Technology and development assistance for safe drinking water supply in Bangladesh - Changes in the use of water source by villagers and the emergence of new problems</b> YAMADA Shota ( <i>College of Intercultural Communication, Rikkyo University</i> )	
14:00 - 14:20	<b>Systematic analysis of foot-and-mouth disease in Bangladesh: epidemiology, vaccine failure and containment</b> HOSSAIN Anwar ( <i>Bangladesh Academy of Sciences, Jashore University of Science and Technology</i> )	
14:20 - 14:40	<b>Novel and health-focused dairy products: A way forward to sustain dairy industry</b> GURJAR Mahendra ( <i>Kamdenu University</i> )	
<b>Parallel Session S2. Biotechnology for Human Well-Being</b> <i>Chair - KHAN Mubarak Ahmad (Bangladesh Jute Mills Corporations)</i>		Camellia
13:00 - 13:20	<b>Autophagy as a target for human diseases and well-being</b> LEE Myung-Shik ( <i>National Academy of Sciences, Republic of Korea</i> )	
13:20 - 13:40	<b>Textile and apparel waste management and their conversion to biodegradable materials for the sustainable implementation in human wellbeing</b> KHAN Mubarak Ahmad ( <i>Bangladesh Jute Mills Corporations</i> )	
13:40 - 14:00	<b>Thermochromic patch for early-stage breast cancer detection</b> MANAMMAL Aiswarya and VELUSWAMY Pandiyarasan ( <i>Indian Institute of Information Technology, Design, and Manufacturing (IIITDM) Kancheepuram</i> )	
14:00 - 14:20	<b>Approaches to agromedical food for human well-being</b> SHIBUSAWA Sakae ( <i>Science Council of Japan</i> )	
<b>Parallel Session S3(1). Humanities and Social Sciences for Better Living Society</b> <i>Chair - KARUNAWEEERA Nadira (National Academy of Sciences of Sri Lanka)</i>		Water Lily
13:00 - 13:20	<b>Well-being and psychological distress status during covid-19 pandemic; Nursing students' experience from a Saudi Arabian University</b> ROCO Irene ( <i>King Saud University</i> )	
13:20 - 13:40	<b>A case study analysing women's wellbeing of Handicraft Enterprise : Sadhna, Udaipur, Rajasthan, India</b> NAND Mahima ( <i>UID, Karnavati University</i> )	
13:40 - 14:00	<b>Changing geo-political and geo-economic landscape of Asia - A calling for social science -</b> LIM Hyun-Chin ( <i>National Academy of Sciences, Republic of Korea</i> )	
14:00 - 14:20	<b>Institutionalizing and strengthening science advice to governments: A project led by science academies</b> KARUNAWEEERA Nadira ( <i>National Academy of Sciences of Sri Lanka</i> )	

## DAY 1

Parallel Session S4. Emerging Technologies and Policies toward Carbon Neutrality		Marronnier
Chair YOSHIMURA Shinobu (The University of Tokyo)		
13:00 - 13:20	<b>Climate politics and policy, 1990-2020: The roles of four key contexts in Japan's carbon neutrality policy</b> ODEYEMI Christo (Kyoto University)	
13:20 - 13:40	<b>Reviewing emerging technologies and policy approaches towards carbon neutrality in Indonesia</b> MA'ARIF Syamsul (Universitas Sarjanawiyata Tamansiswa)	
13:40 - 14:00	<b>Short-term effects of biomass waste decomposition on carbon dioxide (CO2) evolution rates in clay loam soil</b> BULFA JR. Arsenio D. (Silliman University)	
14:00 - 14:20	<b>Roles of global visions and local actions towards "Society 5.0, Carbon Neutrality and Resilient" society</b> YOSHIMURA Shinobu (The University of Tokyo)	
15:00 - 15:30	<b>Coffee Break &amp; Poster Session</b>	
Parallel Session S5. Convergence of Knowledge and Capacity Building for COVID-19 Pandemic		Camellia
Chair CHOY Jin-Ho (National Academy of Sciences, Republic of Korea)		
15:30 - 15:50	<b>Role of social media in covid -19 era in india: a sociological study</b> JAIN Prakriti (Shri Mahaveer College)	
15:50 - 16:10	<b>Niclosamide-inorganic nanohybrid as an oral drug for covid-19 treatment; A potential broad-spectrum antiviral for the future pandemic</b> CHOY Jin-Ho (National Academy of Sciences, Republic of Korea)	
16:10 - 16:30	<b>SNP-SNP interaction network analysis for identifying candidate susceptibility loci associated with HBsAg seroclearance in chronic hepatitis B</b> ROXAS-VILLANUEVA Ranzivella Marianne (University of the Philippines Los Baños)	
Parallel Session S7. Resilient Recovery from Climate Change		Water Lily
Chair YOO Jung Yul (National Academy of Sciences, Republic of Korea)		
15:30 - 15:50	<b>School organizational culture, its profile and demographics as predictors of teaching resiliency</b> OTED Joshephine O. (Capitol University)	
15:50 - 16:10	<b>Global climate change mitigation and adaptation financing – issues and challenges</b> PRAKASAM Seepana (Indian Council of Social Science Research)	
16:10 - 16:30	<b>Climate change : Resilience building in third world countries</b> KAUR Sharanpreet (Guru Nanak Dev University)	
16:30 - 16:50	<b>Energy mix for resilient recovery from climate change</b> YOO Jung Yul (National Academy of Sciences, Republic of Korea)	
16:50 - 17:10	<b>Impacts of covid-19 pandemic on the livelihood assets of smallholder agroforestry farmers in selected upland farming communities in the Philippines</b> LANDICHO Leila (University of the Philippines Los Baños)	
Parallel Session S8. Education in Digital Transformation Era		Marronnier
Chair HARA Yoshinori (Kyoto University)		
15:30 - 15:50	<b>Policies and practices of managing higher education in India: Lessons learned from the pandemic experience</b> CHOUDHURY Pradeep Kumar (Jawaharlal Nehru University)	
15:50 - 16:10	<b>Global partnership in education during the digital revolution</b> AHN Sung-Hoon (Seoul National University)	
16:10 - 16:30	<b>A historical consideration of the nanga appreciation society and suggestions for the digital age</b> IDE Atsumi (Kanazawa Institute of Art and Culture)	
16:30 - 16:50	<b>An online virtual open world environment for university of Batangas – Batangas campus</b> MACARAIG Bernadet C. (University of Batangas)	
16:50 - 17:10	<b>Transforming management talent education: The impact of human and generative AI co-creation</b> HARA Yoshinori (Kyoto University)	
16:30 - 17:30	<b>SCA Management Board Meeting</b>	Cherry
18:00 - 19:30	<b>Reception (Hosted by NAS, SCA)</b>	Mugunghwa

## DAY 2

<b>Plenary Speech &amp; Keynote Speech</b>		Mugunghwa
09:30 - 11:30	<p><b>Guarantee that people are at the center</b>            BRODJONEGORO Satryo Soemantri  <i>Former President, the Indonesian Academy of Sciences            Emeritus Professor in Mechanical Engineering at the Bandung Institute of Technology (ITB)</i></p> <p><b>Tropical forests: key for climate mitigation, adaptation and sustainability of biological and cultural diversity</b>            KITAJIMA Kaoru  <i>Professor, Kyoto University            Council Member, Science Council of Japan</i></p> <p><b>Science based sustainable low carbon resilient society</b>            YOO Young Sook  <i>14th Minister, Environment, Korea (2011-2013)            Chairperson, the Climate Change Center</i></p>	
11:30 - 13:00	<b>Break (Lunch)</b>	
<b>Parallel Session S1(2). Advances in Science and Technology for Sustainable Development</b>		Magnolia
<i>Chair CRUZ Lourdes J. (National Academy of Science and Technology, NAST PHL)</i>		
13:00 - 13:20	<p><b>Assessment of sustainable tourism potentialities of sorsogon Philippines</b>            CHUR Vivien (Sorsogon State University)</p>	
13:20 - 13:40	<p><b>Promoting sustainable soil health: The influence of organic farming on soil physical properties in various regions of the Philippines</b>            PARAGAS Aimee (University of the Philippines Los Baños)</p>	
13:40 - 14:00	<p><b>Enhancing urban air quality through sustainable farming - Harnessing nature's potential for cleaner cities</b>            RAMESH Elamathi (Jeppiaar Institute of Technology)</p>	
14:00 - 14:20	<p><b>Development of wearable electronics: Nanomaterial based wearable electronics</b>            KO Seung Hwan (Seoul National University)</p>	
<b>Parallel Session S2+S6. Biotechnology and AI Technologies for Human Well-Being</b>		Camellia
<i>Chair KIM Mi-hyun (Korean Academy of Science and Technology, Gachon University)</i>		
13:00 - 13:20	<p><b>Theranostics and nanomedicine</b>            IM Hyung-Jun (Seoul National University)</p>	
13:20 - 13:40	<p><b>Epidemiological study of health effects of air pollution in Delhi</b>            BASUMATARY Mijing (Goalpara College)</p>	
13:40 - 14:00	<p><b>Potential neuroprotective property of the bark extract of cinnamomum mercadoi S. Vidal</b>            AMOR Evangeline (University of the Philippines-Diliman)</p>	
14:00 - 14:20	<p><b>Developing AI based tools for detecting misinformation warfare</b>            TYAGI Gaurav (Jawaharlal Nehru University)</p>	
14:20 - 14:40	<p><b>Machine assisted drug discovery: How to get the pharmacological profiles of unprecedented drug scaffolds using drug-Target Affinity Models and Drug-Target interaction models</b>            KIM Mi-hyun (Gachon University)</p>	
<b>Parallel Session S3(2). Humanities and Social Sciences for Better Living Society</b>		Water Lily
<i>Chair BASNETT Smriti (Future Earth South Asia Global Hub)</i>		
13:00 - 13:20	<p><b>Harnessing the business potentials of domestic tourism destinations during the COVID 19 pandemic crisis in the province of Iloilo: Roadmap towards industry recovery</b>            BLANZA Ma. Gerlia Aujero (West Visayas State University)</p>	
13:20 - 13:40	<p><b>Long-term social impacts of the Covid-19 pandemic</b>            DIAS Priyan (National Academy of Sciences Sri Lanka)</p>	
13:40 - 14:00	<p><b>The necessity and principles of climate justice</b>            LEE Han Goo (National Academy of Sciences, Republic of Korea)</p>	
14:00 - 14:20	<p><b>Behavioral science interventions for promoting health: Evidence-based conceptual study</b>            GOSWAMI Tulsee Giri (Central University of Rajasthan)</p>	
14:20 - 14:40	<p><b>Social entrepreneurship as an emerging approach in social sciences for achieving sustainable development goals</b>            SHAIK Salman Asharaf (G. Pullaiah College of Engineering and Technology)</p>	
<b>Parallel Session SP(1). Climate Change Center Special Session</b>		Marronnier
<i>Chair KIM Sohee (Climate Change Center)</i>		
13:00 - 13:20	<p><b>G20science/S20 processes and outcomes under India's presidency in 2023</b>            SHARMA Ashutosh (Indian National Science Academy)</p>	
13:20 - 13:40	<p><b>Integrated analyses of climate change impacts relevant to city resilience</b>            TAKAHASHI Kiyoshi (National Institute for Environmental Studies)</p>	
13:40 - 14:00	<p><b>Valuable insights for the scientific community from Korea's climate change adaptation efforts</b>            SHIN Jiyoung (National Climate Crisis Adaptation Center)</p>	
14:00 - 14:20	<p><b>Food-Energy-Water Nexus for urban sustainability: Dynamics and optimization</b>            ZHANG Lixiao (Beijing Normal University)</p>	
14:20 - 14:40	<p><b>Exploring innovative ways of financing climate compatible development in second tier asian cities</b>            ROWEEN Catherine (Northern Bukidnon State College)</p>	
15:00 - 15:30	<b>Coffee Break &amp; Poster Session</b>	

## DAY 2

Parallel Session S1(3). Advances in Science and Technology for Sustainable Development			Magnolia	
Chair ARAFILES Kim Hazel (University of Santo Tomas)				
15:30 - 15:50	Microbiological assessment of traditional water sources of selected urban and rural communities of Luzon, Philippines ARAFILES Kim Hazel (University of Santo Tomas)			
15:50 - 16:10	Adaptability of red and black rice (Oryza sativa L.) varieties to agro-climatic conditions under different levels of nitrogen in Sta. Maria, Laguna andSariaya, Quezon, Philippines OLIVAS Regine (Laguna State Polytechnic University)			
16:10 - 16:30	Science education for social and ethical responsibility: A discourse analysis VERMA Kajal & PAL Rashmi (University of Delhi)			
16:30 - 16:50	Rivers pollution in Asia: with special reference to Brahmaputra, Meghna and Mekong - A study on Assam, Bangladesh and Myanmar FAIHRIEM Rody (Goalpara College)			
Parallel Session S6. Mega-data and AI Technologies for Human Well-Being			Camellia	
Chair IWASAKI Wataru (University of Tokyo)				
15:30 - 15:50	AI-Tentiveness: An affective deep learning approach to measure the level of attentiveness of construction site's workers in the Philippines to improve workplace safety CASUAT Cherry (University of Cabuyao)			
15:50 - 16:10	Promotion of big data and data industry in Korea for human well-being and sustainable development PARK Sung Hyun (National Academy of Sciences, Republic of Korea)			
16:10 - 16:30	ChatGPT: Language is not a barrier to international tourists in Indian destinations VEERASAMY Senthil (Thiagarajar School of Management)			
16:30 - 16:50	Ethical considerations in the era of mega-data and AI: Safeguarding human well-being KUMAR Anil (Kurukshetra University Kurukshetra)			
16:50 - 17:10	Mega-data and technologies for human well-being JEEERH Novdeep (Conestoga College)			
Parallel Session S3. Humanities and Social Sciences for Better Living Society			Water Lily	
Chair YOO Jang-Hee (National Academy of Sciences, Republic of Korea)				
15:30 - 15:50	Policy recommendations on the improvement of primary health care delivery services among government employees: Enablers' perspective NAPULAN Roderick (University of Santo Tomas)			
15:50 - 16:10	Exploring emotional regulation, affect, and psychological wellbeing: Cross cultural investigation - emotional regulation, affect, and psychological wellbeing KHAN Azizuddin (Indian Institute of Technology Bombay)			
16:10 - 16:30	Potential for interaction through dark tourism in Japan and South Korea IDE Akira (Kanazawa University)			
16:30 - 16:50	Re-globalization with WTO: Would it be a daydream? YOO Jang-Hee (National Academy of Sciences, Republic of Korea)			
16:50 - 17:10	Harnessing the power of humanities and social sciences for advancing societal well-being in South-Asian countries KUMAR Sushil (Nirmala College Ujjain)			
Parallel Session SP2. Future Earth Special Session			Marronnier	
Chair KIM Joon (Seoul National University)				
15:30 - 15:50	Harnessing the power of networks: Future earth science for sustainability in Asia LAMBINO Ria (Future Earth Japan Global Secretariat Hub)			
15:50 - 16:10	The geospatial information for sustainable development. Case study of Kho Hong municipality, Thailand, and case study of Bangladesh related to the future urban area and its relationship with agricultural land in the central part TECHATO Kuaanan (Faculty of Environmental Management, Prince of Songkla University)			
16:10 - 16:30	Insights from the Philippine experience of resilient recovery from disasters and climate change LAGMAY Alfredo Mahar (University of the Philippines Resilience Institute / Future Earth Philippines)			
16:30 - 16:50	Assessing resilience, complexity, and integrity of ecological-societal systems under pressure KIM Joon (Seoul National University)			
16:50 - 17:10	Air pollution in Aisa: Status, trends and achievement in mitigation LU Xiao (Sun Yat-sen University)			
17:00 - 18:00	SCA General Assembly			Mugunghwa
18:00 - 18:30	Closing			Mugunghwa
18:30 - 20:00	Banquet (Hosted by KAST)			Mugunghwa

## 1. Airport à Venue (Limousine Bus)

### ● Incheon Int'l Airport > Hoam Faculty House

(<https://www.airport.kr/ap/en/tpt/busRouteList.do>)

- 1) Take the “**#6017 Airport Limousine bus**” at the GATE 27 (Terminal 2)  
or GATE 6B (Terminal 1)  
First Bus: T1 (06:50) / T2 (06:30)  
Last Bus: T1 (23:10) / T2 (22:50)  
Fare: 17,000KRW  
Bus Company (Contact): +82-2-2664-9898

- 2) Get off at the last stop “Hoam Faculty House”

### ● Gimpo Int'l Airport > Hoam Faculty House

([https://www.airport.co.kr/gimpoeng/cms/frCon/index.do?MENU\\_ID=270&CONTENTS\\_NO=1#none](https://www.airport.co.kr/gimpoeng/cms/frCon/index.do?MENU_ID=270&CONTENTS_NO=1#none))

- 1) Take the “**#6003 Airport Limousine bus**” at the International Terminal. (1 Floor, Hall 6).  
First Bus: 06:22  
Last Bus: 23:42  
Fare: 8,000KRW  
Bus Company (Contact): +82-2-2664-9898

- 2) Get off at the stop “Main gate of Seoul National University” and take a taxi.

### ● Cash payment is available at the Bus ticket office.

### ● If there is a seat available, you can board without making a reservation at the Bus ticket office

## [Bus ticket office]

### [Incheon Int'l Airport] T1 :

You can purchase tickets and get information at the bus ticket offices indoor (next to exits 4 and 9) and outdoor(near exits 4, 6, 7, 8, 11, and 13) on the 1st floor of Passenger Terminal 1.

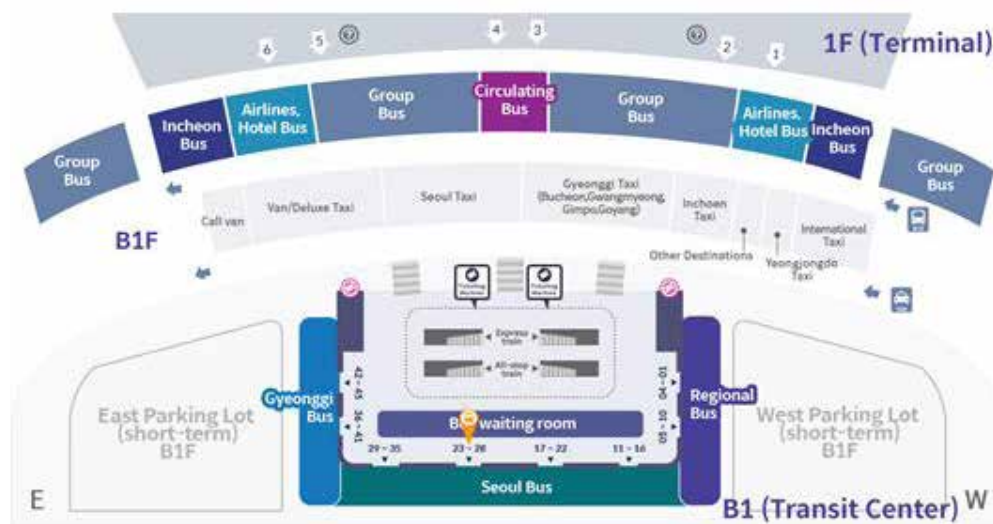
### [Incheon Int'l Airport] T2 :

You can purchase bus tickets and get information at ticketing offices indoors on The 2<sup>nd</sup> Transportation Center (B1)

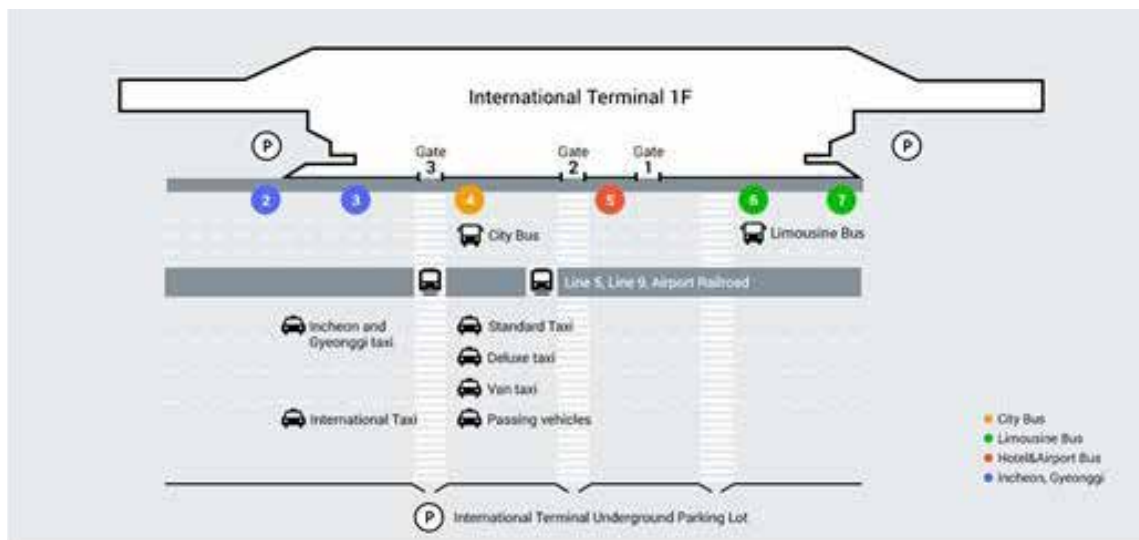
#### [Incheon Int'l Airport] T1 \_ 1 Floor, Gate 6B



#### [Incheon Int'l Airport] T2 \_ Transportation center Basement 1, Gate 27



## [Incheon Int'l Airport] International Terminal



### 2. 1. Hotel à Venue (Subway)

- To get to the Venue (Hoam Faculty House), **take the subway near your hotel and use Subway Line 2.**  
The closest station to Venue is Nakseongdae Station on Line 2.
- Walk or take a village bus from **Exit 4 of Nakseongdae Station** on subway Line 2  
(about 15 to 20 minutes by walk)
- Village Bus **# 02**  
Bus stop: **Nakseongdae**  
(Turn left at the gas station 30 meters ahead at Exit 4 and then the bus stop next to bakery)

Bus Stop	To Hoam	To Subway
Departure	Nakseongdae	Seoul Science Park
Arrival	Hoam Faculty House	Nakseongdae



## 3. Taxi

- Participant can take a regular taxi or a deluxe (black sedan) taxi to the venue.
- If you take a taxi to go to the Venue 'Hoam Faculty House', please print and show this message to taxi driver.

안녕하세요. SCA 2023 사무국입니다.  
호암교수회관(Hoam Faculty House)에서 개최되는 SCA 2023 컨퍼런스에 참석하기 위한  
참가자 분이시니 안전하게 호암교수회관까지 모셔다 주시기를 부탁드립니다.  
감사합니다.

## SCA 2023 Conference Shuttle Bus Schedule

### ● Day 1 (October 19th, Thursday)

Morning	Nakseongdae station Exit no.4 ⇔ Hoam Faculty House (Main Building)
	08:30 / 08:45 / 09:00 / 09:45
Afternoon	Hoam Faculty House (Main Building) ⇔ Nakseongdae station Exit no.4
	12:15 / 12:30 / 12:45 / 13:00
	Nakseongdae station Exit no.4 ⇔ Hoam Faculty House (Main Building)
Evening	12:25 / 12:40 / 12:55 / 13:10
	Hoam Faculty House (Main Building) ⇔ Nakseongdae station Exit no.4
	17:30 / 17:45 / 18:00 / 19:45 / 20:00

### ● Day 2 (October 20th, Friday)

Morning	Nakseongdae station Exit no.4 ⇔ Hoam Faculty House (Main Building)
	08:30 / 08:45 / 09:00 / 09:45
Afternoon	Hoam Faculty House (Main Building) ⇔ Nakseongdae station Exit no.4
	11:45 / 12:00 / 12:45 / 13:00
	Nakseongdae station Exit no.4 ⇔ Hoam Faculty House (Main Building)
Evening	11:55 / 12:10 / 12:55 / 13:10
	Hoam Faculty House (Main Building) ⇔ Nakseongdae station Exit no.4
	17:45 / 18:00 / 18:45 / 19:00 / 20:15 / 20:30

\* It can be change depending on the traffic situation

### ● Nakseongdae station Exit no.4



### ● Hoam Faculty House (Main Building)

