

KOREA UNIVERSITY | SEOUL

NOVEMBER 13-14

5TH ANNUAL IIES SCIENCE & POLICY WORKSHOP

SEOUL | 2019

ORGANIZERS:

International Institute for Environmental Studies
AND
Korea University



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PROGRAM

WEDNESDAY, NOVEMBER 13

8:30-9:00	Arrival & Registration Hana Square (B115)
9:00-9:30	Welcome Remarks Professor Yong Sik Ok, Director, Korea Biochar Centre, Korea University Professor Emeritus Douglas Evans, Director, IIES
9:30-10:50	Plenary Talks Multimedia Room (B115) Professor Raimund Bleischwitz Professor Daniel Tsang
10:50-11:10	Break
11:10-12:30	Parallel Session One Multimedia Room (B115), Conference Hall (B111) B115: Waste/Water Management B111: Environmental Policy/Climate Change/Circular Economies
12:40-13:40	Lunch Aegineung Student Cafeteria
13:40-14:20	Plenary Talk - Multimedia Room (B115) Professor Asaf Zohar
14:20-15:20	Parallel Session Two Multimedia Room (B115), Conference Hall (B111) B115: Mercury in the Environment B111: Environmental Policy
15:20-15:30	Break
15:30-17:00	Poster Session Exhibition Hall (B116)
17:00	Session Close
19:00-22:00	Workshop Banquet Dinner Sudang Samyang Faculty House



PROGRAM

THURSDAY, NOVEMBER 14

8:45-9:00	Arrival Hana Square, Multimedia Room (B115)
9:00-10:20	Plenary Talks - Multimedia Room (B115) Dr. Ondrej Masek Professor Xiaowen Zeng
10:20-10:30	Break
10:30-11:30	Parallel Session Three Multimedia Room (B115), Conference Hall (B111) B115: Environmental Effects/Contaminants B111: Collaborative Research within the IIES
11:30-11:50	Break
11:50-12:50	Parallel Session Four Multimedia Room (B115), Conference Hall (B111) B115: Environmental Effects/ Contaminants B111: Environmental Methods
12:50-13:50	Lunch Aegineung Student Cafeteria
14:00-15:00	Parallel Session Five Multimedia Room (B115), Conference Hall (B111) B115: Environmental Effects/Contaminants B111: Environmental Remediation
15:00-15:20	Break
15:20-16:00	Parallel Session Five (continued)
16:00	Close of Meeting

PLENARY SPEAKERS



Professor Raimund Bleischwitz
Director, The Bartlett School of Environment
Energy & Resources, University College
London

Raimund Bleischwitz is Chair in Sustainable Global Resources at University College London (UCL) and Director of the UCL Bartlett School of Environment, Energy and Resources (UCL BSEER). He has been Principal Investigator of an international collaborative project on the circular economy in China (SINCERE), and he participates in a number of EU projects on eco-innovation and raw minerals (Green.EU/Inno4SD, RECREATE, POLFREE, Minatura, Mica). Until July 2018 he was Deputy Director of the UCL Institute for Sustainable Resources (UCL ISR). Raimund had previous positions at the Wuppertal Institute in Germany, at the College of Europe in Bruges (Belgium), at the Max Planck Institute for collective goods, at the Institute for European Environmental Policy and in the German Bundestag; and fellowships at the Transatlantic Academy (TA) in Washington DC, at Johns Hopkins University (AICGS JHU) and in Japan (JSPS). Raimund has a PhD and a 'Habilitation' in economics. His research interests cover sustainable development, resource efficiency, the resource nexus, conflict minerals, international governance, the interface of policy and industry, and resulted in more than 250 publications.



Dr Ondrej Masek
Lecturer in Engineering Assessment of Biochar, School
of Geosciences, University of Edinburgh, UK Biochar
Research Centre

Dr. Ondřej Mašek is a lecturer at the School of GeoSciences, University of Edinburgh, Edinburgh, UK. He has obtained his MSc from VSB - Technical University of Ostrava, Czech Republic followed by PhD from Hokkaido University, Japan in 2007. He was a postdoctoral fellow in the Cranfield University, UK before joining the University of Edinburgh. His research interests are on technologies for biochar production and utilization for bio-fuel and bio-energy generation, thermochemical conversions of carbonaceous materials, CO₂ capture and transport technologies. He also works at the UK Biochar Research Center and he has over 56 peer reviewed papers with 2011 citations.



Professor Daniel Tsang
Associate Professor, Programme Leader (EOSH),
Department of Civil and Environmental
Engineering, Hong Kong Polytechnic University

Dan is an Associate Professor and Programme Leader (EOSH) in the Department of Civil and Environmental Engineering at the Hong Kong Polytechnic University. He was an IMETE Visiting Scholar at Ghent University (Belgium), Visiting Scholar at Stanford University (USA), Senior Lecturer and Lecturer at the University of Canterbury (New Zealand), and Post-doctoral Fellow at Imperial College London (UK) and the Hong Kong University of Science and Technology. Dan's research group strives to develop innovative solutions to ensure sustainable urban development, enhance the engineering infrastructure, and create new ways in which we utilize biomass waste, contaminated land, and urban water. Dan has published over 240 SCI journal papers, with an h-index of 34 and total citations over 3700 and serves as Associate Editor of Science of the Total Environment, Critical Reviews in Environmental Science and Technology, Environmental Geochemistry and Health, and Journal of Soils and Sediments, as well as Editorial Board Member of Bioresource Technology and Chemosphere. Dan has also served as Guest Editor of 18 Special Issues at Environment International, Bioresource Technology, Journal of Cleaner Production, Journal of Hazardous Materials, etc., and received the Excellence in Review Award at Environmental Science and Technology and Chemosphere.



Professor Xiaowen Zeng
Associate Professor, School of Public Health, Sun
Yat-sen University

Dr. Xiaowen Zeng is an associate professor of Environmental Health at the School of Public Health, Sun Yat-sen University, China. She has over 10-year research experience in environmental exposure and the effect of environmental pollutants on human health. In recent years, her research focuses on air pollution in association with human health. Dr. Zeng and her research group have conducted some large population-base cohort studies on air pollution in China. she has been awarded eight research grants as the lead investigator including one from the National Key Research and Development Project scheme, in collaboration with partners from the University of Eastern Finland. She has edited two books on aspects of air pollution and health effects and has more than 50 publications.



Professor Asaf Zohar
Associate Professor, School of Business
Chair, Masters in Sustainability Studies Program,
Trent University

Dr. Zohar's research examines the processes and enabling conditions that promote the translation of visions and missions of sustainability into successful organizing strategies and actions. His recent work has focused on designing and facilitating strategic decision-making and learning processes for multiple stakeholders that condense lengthy strategic planning processes in shortened time horizons and build shared commitment to sustainable strategies and actions. He has played a leadership role in introducing sustainability into both undergraduate and graduate programs at Trent. He has developed programs and courses that address such issues as sustainable strategic management, social enterprise, and corporate social responsibility, in which social and environmental issues are taken as the strategic domain for value creation. He has co-authored a series of international publications on organizational learning and change management that build on the insights of the new science of chaos and complexity. These works outline an innovative approach to realizing large-scale organizational change initiatives through a critical mass of high leverage individual actions. He has developed and facilitated numerous academic and executive development programs in Canada, the Middle East, and the US. on how we can create sustainable organizations that self-organize - continually creating new, emergent learning structures and processes that effectively respond to current needs. He has served as a Visiting Scholar and Adjunct Faculty at The Arava Institute for Environmental Studies. He is the founding National Chair of Canadian Academics for Peace in the Middle East, an organization governed and driven by academics, committed to academic freedom and integrity, and to promoting nuanced and academically rigorous debate on issues related to the Middle East.

PARALLEL SESSION SCHEDULE

TUESDAY, NOVEMBER 12		
19:30-21:30	ICE-BREAKER MIXER EVENT INCHON MEMORIAL HALL	
WEDNESDAY, NOVEMBER 13		
OPENING CEREMONY MULTIMEDIA ROOM - HANA SQUARE (B115)		
08:30-09:00	ARRIVAL AND REGISTRATION	
09:00-09:30	Welcome Remarks – Professor Yong Sik Ok, Director, Korea Biochar Research Centre, Korea University Professor Emeritus Douglas Evans, Director, IIES, Trent University	
PLENARY TALKS MULTIMEDIA ROOM - HANA SQUARE (B115)		
09:30-10:10	Towards a more circular economy: interdisciplinary perspectives from economics and the social sciences Professor Raimund Bleischwitz, Director, The Bartlett School of Environment Energy & Resources University College London	
10:10-10:50	Urban waste valorization for circular bioeconomy Professor Daniel Tsang, Programme Leader (EOSH), Department of Civil and Environmental Engineering, Hong Kong Polytechnic University	
10:50-11:10	BREAK	
PARALLEL SESSION ONE HANA SQUARE ROOM A MULTIMEDIA ROOM (B115) Waste/Water Management CHAIR: Professor Amit Bhatnagar ROOM B CONFERENCE ROOM (B111) Environmental Policy/Climate Change/Circular Economies CHAIR: Professor Asaf Zohar		
	ROOM A Waste/Water Management	ROOM B Environmental Policy/Climate Change/Circular Economies
11:10-11:30	Health risk assessment and prediction of municipal solid waste harmless disposal Yanyan Qiu, Nanjing University	Additional observations for understanding methane fluxes on global to regional scales Edward Chung, University of Edinburgh
11:30-11:50	Impacts of policy on municipal solid waste management in Shanghai: A system dynamics model analysis Shijiang Xiao, Shanghai Jiao Tong University	The analysis of the energy and water nexus variations for a thermal power plant Nan-Hui Wang, National Taiwan University
11:50-12:10	Anxion-exchange resin adsorption followed by electrolysis: a new disinfection approach to control halogenated disinfection byproducts in drinking water Yang Pan, Nanjing University	The impact of China’s carbon emission reduction policies and its implications for India Xiaolin Ma, Nanjing University
12:10-12:30		Benefits of current and future policies on emission reduction from China’s coal-fired power sector indicated by continuous emission monitoring Yu Zhao, Nanjing University
12:40-13:40	LUNCH AEGINEUNG STUDENT CAFETERIA	
PLENARY TALK MULTIMEDIA ROOM - HANA SQUARE (B115)		
13:40-14:20	The Sustainable Development Goals: Challenges and Opportunities for Interdisciplinary Engagement Professor Asaf Zohar, Chair, Sustainability Studies Program; Director, Entrepreneurship and Social Innovation Centre, Trent University	
PARALLEL SESSION TWO HANA SQUARE ROOM A MULTIMEDIA ROOM (B115) Mercury in the Environment CHAIR: Professor Amit Bhatnagar ROOM B CONFERENCE ROOM (B111) Environmental Policy/Climate Change/Circular Economies CHAIR: Professor Raimund Bleischwitz		
14:20-14:40	Key factors controlling risk of methylmercury in contaminated paddy soils Huan Zhong, Nanjing University	An energy-based sustainability evaluation on a combine landfill and LFG power generation system Pan Hengyu, Shanghai Jiao Tong University
14:40-15:00	Soil mercury pollution and sources appointment in China’s typical anthropogenic mercury emission areas Ping Li, Chinese Academy of Sciences	Effectiveness and heterogeneous co-benefit of pilot carbon emissions trading markets in China Yu Zheng, Nanjing University

15:00-15:20	Mercury concentration and speciation in mine wastes in Tongren mercury mining area, southwest China and environmental effects Junyao Yan, Chinese Academy of Sciences	Making the case for a compassionate approach to energy research in low-income communities Rebecca Grant, University of Edinburgh
15:20-15:30	BREAK	
15:30-17:00	POSTER SESSION EXHIBITION HALL - HANA SQUARE (B116)	
17:00	SESSION CLOSE	
19:00-22:00	WORKSHOP BANQUET DINNER SUDANG SAMYANG FACULTY HOUSE	
THURSDAY NOVEMBER 14		
08:45-09:00	ARRIVAL	
PLENARY TALKS MULTIMEDIA ROOM - HANA SQUARE (B115)		
09:00-09:40	Biochar – feedstock and product contamination Dr Ondrej Masek, Lecturer in Engineering Assessment of Biochar, School of Geosciences, University of Edinburgh, UK Biochar Research Centre	
09:40-10:20	Air pollution and health effect in children: a large population-based cohort study Professor Xiaowen Zeng, Associate Professor, School of Public Health, Sun Yat-sen University	
10:20-10:30	BREAK	
PARALLEL SESSION THREE HANA SQUARE ROOM A MULTIMEDIA ROOM (B115) Environmental Effects/Contaminants CHAIR: Professor Cheng Gu ROOM B CONFERENCE ROOM (B111) Collaborative Research within the IIES CHAIR: Professor Xiaowen Zeng		
	ROOM A Environmental Effects	ROOM B Collaborative Research
10:30-10:50	The effect of dissolved organic carbon on aquatic animal-mediated nutrient recycling Sandra Klemet N'Guessan, Trent University	Urban Air PM alters responses of lung epithelium to virus-like infection in vitro Marjut Roponen, University of Eastern Finland
10:50-11:10	Biosink and biosource: wetland plants influence glyphosate fate through retention and release Verena Sesin, Trent University	Transport derived ultrafines and the brain effects (TUBE) – Adverse effects of air pollutants beyond the lung Pasi Jalava, University of Eastern Finland
11:10-11:30	Organic Matter and Mercury Cycling in a Norwegian Lake Sarah Nelson, Trent University	Collaborative aerosol measurements in Guangzhou and Maoming Mika Komppula, Head of Atmospheric Measurements Group, Finnish Meteorological Institute
11:30-11:50	BREAK	
PARALLEL SESSION FOUR HANA SQUARE ROOM A MULTIMEDIA ROOM (B115) Environmental Effects/Contaminants (continued) CHAIR: Prof Cheng Gu ROOM B CONFERENCE ROOM (B111) Environmental Methods CHAIR: Prof Xiaowen Zeng		
	ROOM A Environmental Effects	ROOM B Environmental Methods
11:50-12:10	Accumulation of N-nitrosodiethanolamine in spinach David Nielsen-Franco, University of Wisconsin-Madison	Validation of cation competition and electrostatic theory in quantifying the toxicity of trivalent rare earth ions (Y3+ and Ce3+) Bing Gong, Shanghai Jiao Tong University
12:10-12:30	Complete degradation of perfluorinated compound of organo-modified clay minerals Cheng Gu, Nanjing University	Zn isotope fractionation in the oyster <i>Crassostrea hongkongensis</i> and implications for contaminant source tracking Lan Ma, Hong Kong University of Science and Technology

12:30-12:50	What are we flushing down the drain? The effects of drugs on aquatic organisms Abraham Fischer, Trent University	Automated Separation, Preconcentration and Determination of actinide and fission product elements in Environmental Samples by Online Ion Exchange Chromatography Coupled with Inductively Coupled Plasma Mass Spectrometry (ICP-MS) Wei Wang, Trent University
12:50-13:50	LUNCH AEGINEUNG STUDENT CAFETERIA	
PARALLEL SESSION FIVE HANA SQUARE ROOM A MULTIMEDIA ROOM (B115) Environmental Effects/Contaminants (continued) CHAIR: Professor Huan Zhong ROOM B CONFERENCE ROOM (B111) Environmental Remediation CHAIR: Professor Doug Evans		
	ROOM A Environmental Effects	ROOM B Environmental Remediation
14:00-14:20	Differential influence of molybdenum disulfide at the nanometer and micron scales in the intestinal metabolome and microbiome of mice Bing Wu, Nanjing University	Application of Microalgae for Environmental Remediation Amit Bhatnagar, University of Eastern Finland
14:00-14:20	Anionic nanoparticles disrupt gA function in suspended bilayers Isabel Foreman-Ortiz, University of Wisconsin-Madison	The eutrophication and ecological restoration in Lake Taihu, China Xin Qian, Nanjing University
14:20-14:40	Transient protein interaction with nanoparticle produces persistent conformational changes Kyoungtea Kim, University of Wisconsin-Madison	In pursuit of just forest governance: Unfolding the everyday practices of decision-making in Indonesia's environmental impact assessment Jaiyen Lai, University of Edinburgh
14:40-15:00	Detecting and differentiating between nanoparticle-lipid interaction mechanisms Christian Lochblaum, University of Wisconsin-Madison	Simultaneous remediation of 2,4-dichlorophenol contaminated soil and groundwater: the potential of vertical-flow bio-augmented permeable reactive layer systems Wenbing Wang, Shanghai Jiao Tong University
15:00-15:20	BREAK	
15:20-15:40	Structural features of ER or AR-mediated endocrine disrupting chemicals Wei Shi, Nanjing University	Potential for CO2 sequestration in processed kimberlite at diamond mines Amanda Stubbs, Trent University
15:40-16:00	Analytical method development for the quantification of emerging contaminants in the environment Marc-Anotine Vaudreuil, Université de Montréal	Interactive effects of earthworms and green bean plant <i>Phaseolus vulgaris</i> L on the fate of soil selenium Azharuddin, Shanghai Jiao Tong University
16:00	CLOSE OF MEETING Professor Douglas Evans and Professor Yong Sik Ok	

POSTER SESSION

Xuxiang Zhang, Nanjing University

A comprehensive insight into the functional bacteria and genes and their roles in simultaneous denitrification and anammox system at varying substrate loadings

Lei Huang, Nanjing University

The Whole Process of Risk Assessment and Intervention Study of Cadmium Pollution

Yao Su, Nanjing University

Possible Mechanisms of Increased Methylmercury Production in Paddy Soils after Straw Return

Weiyu Ma, Nanjing University

Micro plastics or adsorbed pollutants, which one really hurts the environment?

Chong Peng, Nanjing University

A novel start-up strategy for heterotrophic and mixotrophic denitrification biofilters by rhamnolipid addition

Juntao Xia, Nanjing University

Aromatic compounds lead to increased abundance of antibiotic resistance genes in wastewater treatment bioreactors

Hui Zhu, Nanjing University

Life cycle inventory of Chinese freshwater aquaculture

Zhiqian Xiang, Nanjing University

Combined Toxicity of Silver Nanoparticles with Hematite or Plastic Nanoparticles toward Two Freshwater Algae

Siyuan Pan, Nanjing University

Fabrication of Millimeter-scale mesoporous nano-iron oxide polystyrene composites for highly efficient removal of arsenic from water

Han Gao, Nanjing University

Sunlight-Mediated Lead and Chromium Release from Commercial Lead Chromate Pigments in the presence of DOM

Huayuan Feng, Nanjing University

Functional Analyses of Phosphate Transporter PvPht1;3 in *Pteris vittata*

Hao Wu, Nanjing University

Promoted dissolution of poorly crystalline iron (oxyhydr)oxide by dissolved rice biochar

Shuai Shao, Nanjing University

Advanced oxidative degradation and transformation of cardiovascular drugs mediated by nanomaterials

Dingding Wu, Nanjing University

Kaolinite promotes the hydrolysis of chloramphenicol in non-aqueous phase

Ling Chen, Nanjing University

Combined toxicity of arsenic and dichloroacetamide: the heterogeneous response of zebrafish liver cell subpopulation

Chanchan Zhang, Institute of Geochemistry, Chinese Academy of Sciences

Maternal inorganic mercury exposure, renal effects, and influencing factor in Wanshan mercury mining area, China

Ziphozakhe Theophilus Shasha, Shanghai Jiao Tong University

Human wildlife relation and conflict on ecotourism in South African National Parks between 2000-2019

Chenglian Feng, State Key Laboratory of Environmental Criteria and Risk Assessment

Influence of Hardness and Dissolved Organic Carbon on the Acute Toxicity of Copper to Zebrafish at Different Life Stages

Yingchen Bai, State Key Laboratory of Environmental Criteria and Risk Assessment

Isolation and Characterization of Sub-fractions of Chinese Standard Fulvic Acid Separated by Stepwise Elution with Pyrophosphate Buffer

Ainsely Lewis, Trent University

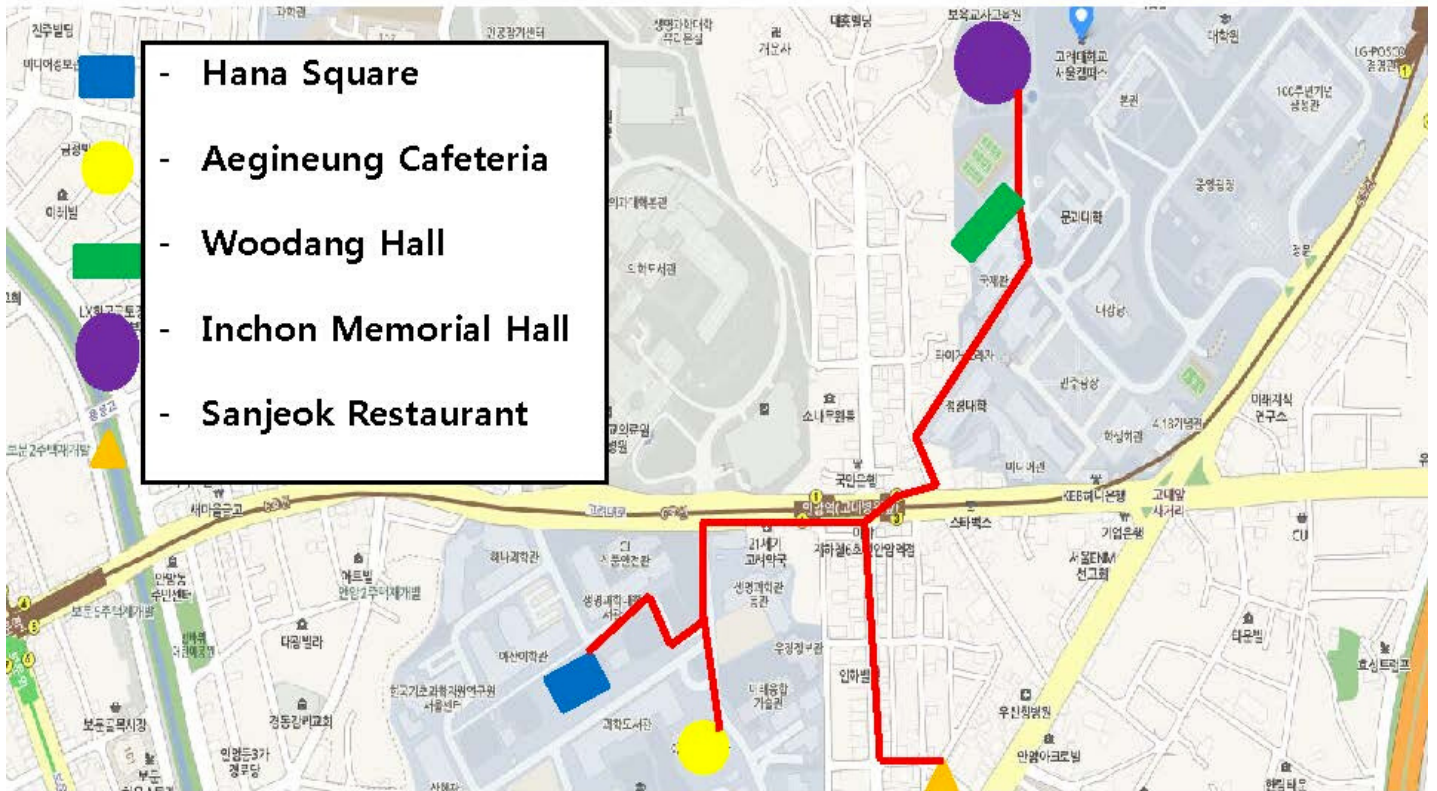
Applications of chemometric methods for the bio removal of low dysprosium concentrations by a microalga

Muhammad Waseem Khan, University of Eastern Finland Adverse Health Effects of Environmental Stressors

Elizabeth Telford, University of Edinburgh

Nodulation increases drought tolerance in *Vachellia sieberiana*

KOREA UNIVERSITY BUILDINGS MAP



SEOUL SUBWAY DIRECTIONS

SEOUL DIRECTIONS | SUBWAY

INCHEON INTERNATIONAL AIRPORT → EULJIRO CO-OP RESIDENCES

FROM TERMINAL 1

- Go to the 1st floor of the airport
- Find platform 5 of the KAL airport limousine (#6001)
- Exit at Dongdaemun History and Culture Park Station (Dongdaemun Digital Plaza)
- Walk approximately 5 minutes or use a cab
- Address is **Euljiro 246, Jung-gu** or **중구 을지로 246** (if the cab driver doesn't understand English show him this address)



FROM TERMINAL 2

- Go to B1 floor of the airport
- Find platform 29 of the airport limousine (#6001)
- Exit at Dongdaemun History and Culture Park Station (Dongdaemun Digital Plaza)
- Walk approximately 5 minutes or use a cab
- Address is **Euljiro 246, Jung-gu** or **중구 을지로 246** (if the cab driver doesn't understand English show him this address)



EULJIRO CO-OP RESIDENCES → HANA SQUARE, KOREA UNIVERSITY

← Subway, line 6 subway \$2 - \$4

27 min

includes 5 min transfer

● Uijiro Coop Residence Dongdaemun, Seoul

● Walk for 3 min
● Approx 312 meters

● Dongdaemun History and Culture Park Station

● 3 min by Subway, every 5 minutes
● 2-Green
● \$1 - \$3

● Sindang Station

● 8 min by Subway, every 10 minutes
● 6 - Brown
● \$1 - \$2

● Anam Station

● Walk for 7 min
● Approx 634 meters

● 145 Anam-ro



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A stylized, dark blue world map is centered in the background, showing the outlines of continents. Overlaid on this map is the acronym "IIES" in a large, bold, dark blue sans-serif font.

IIES

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